QUICK INDEX

A complete and detailed index can be found at the back of this catalog.

NAME:_____

CUSTOMER #: _____

TOLL-FREE ORDER LINE / CUSTOMER SERVICE
877-477-7823

ORDER DESK HOURS (PST)
Mon. - Fri.: 5:00am - 6:00pm, Sat.: 7:00am–3:30pm

SHOP ON-LINE
www.aircraftspruce.com

NINE REGIONAL WAREHOUSES

AIRCRAFT SPRUCE WEST
ADMINISTRATION & HEADQUARTERS
225 Airport Circle, Corona, CA 92878
Phone: (951) 372-9555 • Fax: (951) 372-0555
www.aircraftspruce.com

AIRCRAFT SPRUCE EAST
452 Dividend Drive, Peachtree City, GA 30269
Phone: (770) 487-2310 • Fax: (770) 487-2308

AIRCRAFT SPRUCE MIDWEST
1110 Commerce Dr., West Chicago, IL 60185
Phone: (630) 231-3570

AIRCRAFT SPRUCE NORTHEAST
1431 Stoneridge Dr., Middletown, PA 17057
Phone: (717) 233-5733 • Fax: (717) 233-5738

AIRCRAFT SPRUCE SOUTH
215 Fairway Dr., Roanoke, TX 76262
Phone: (817) 624-9882 • Fax: (817) 625-8936

AIRCRAFT SPRUCE SOUTHWEST
2120 S Douglas Dr., Chandler, AZ 85286
Phone: (480) 963-6936 • Fax: (480) 899-0324

AIRCRAFT SPRUCE CANADA
27 York Rd., Brantford, ON N3T-6H2
Mailing: P.O. Box 3731
Phone: (519) 759-5017 • Fax: (800) 329-3020
www.aircraftspruce.ca

AIRCRAFT SPRUCE ALASKA
1692 N Aircraft Spruce Circle, Palmer, AK 99645
Phone: 907-373-5300 • Fax: 519-759-8964

AIRCRAFT SPRUCE AUSTRALIA
3 Fairborne Way, Keysborough, Vic 3173
Phone: 907-373-5300

NOTICE! Many parts in this catalog are NOT FAA approved.
Unless our catalog specifically indicates a part has a PMA (Parts Manufacturers Approval), that part may not be certified or approved for aviation use. The selling of a part should not be construed as a representation that the part is certified or approved for aviation use, nor can Aircraft Spruce & Specialty Co. include instructions for use or warnings unless provided by the manufacturer or distributor. Any concerns the purchaser may have about the suitability of a part for aviation use, instructions for use or warnings, should be promptly directed to the manufacturer.

WAIVER OF LIABILITY AND INDEMNIFICATION AGREEMENT
In as much as Aircraft Spruce & Specialty Co. has no opportunity to supervise the manufacture, installation or maintenance of the parts supplied by it, nor any opportunity to participate in the design or manufacture of the various certificated and homebuilt aircraft in which its parts are utilized, the purchaser by placing this order and accepting said merchandise from Aircraft Spruce & Specialty Co. agrees that all materials purchased will be used solely at purchaser's risk and that purchaser will indemnify and hold Aircraft Spruce & Specialty Co., its owners and employees, free and harmless from all loss, liability or damage resulting from claims brought by reasons of any alleged failure or defect of any part or parts supplied by Aircraft Spruce & Specialty Co.

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Aircraft Spruce & Specialty Co. SINCE 1965

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ORDERING INFORMATION

AIRCRAFT SPRUCE PRICING POLICY

Aircraft Spruce has always taken great pride in offering aircraft builders/owners the lowest overall prices in the industry. Many items in the catalog now show discounts for various quantity purchases. Special quotations on other quantity purchases gladly furnished on request. Our online catalog pricing is updated daily and should reflect current pricing. Should there be any kind of price discrepancy we will notify you immediately. We will continue to do our best to minimize increases and offer all of our products at the best possible prices. All prices are subject to change without notice.

OPEN ACCOUNTS

Aircraft Spruce has long served many companies, schools and government agencies on an open account basis. Established companies can apply for an open account by submitting a credit application including all company data and at least three business references and bank information. Credit application forms available on request. Open account terms are net 15 days after invoice date.

DEALER/OEM DISCOUNTS

We have offered discounts to our regular dealers and FBO's for many years for resale purposes, and we welcome the addition of new dealers to best serve aviation consumers worldwide. Due to the very competitive and low margin nature of most of the prices shown in this catalog, all discounts are based on volume purchasing. Discounts for many items are shown below the product in the catalog. Discounts for items with discounts not shown in the catalog or for larger quantities than those listed can be quoted by mail, phone, or FAX upon request. You can be assured, as an aviation dealer, that you will receive the best possible net prices from Aircraft Spruce on all product lines that we carry. If you ever find a lower current advertised price on any product, just let us know and we'll beat it. Call for an Aircraft Spruce dealer application if interested in becoming a dealer for our covering supplies, hardware, or Microflight products.

PRODUCT INFORMATION

For all products, call our main sales lines at 877-4-SPRUCE. Our sales representatives will consult with other staff members or call the manufacturer of the product to get you the answer you need as quickly as possible. We are here to help!

SPECIAL ORDERS

Over the years, one of the services that our company offers that seems to be most appreciated by our customers is our willingness to research and provide quotations for special items. Other supply firms tend to discourage special requests due to the time and effort it takes to find these items, and request that customers order "catalog items" only. We have always taken a different approach and welcome requests for non-catalog items. Call or write and provide as much information as possible including make, model, serial number of aircraft and exact part number or product you need, plus your credit card number. Within 24 hours if at all possible, we will advise you of the price and delivery time on the item, at which time you can place your order if acceptable. Once an order is placed for a special order item, it cannot be cancelled or returned and must be paid in advance. If we cannot drop ship your special order, then freight charges from the factory to our warehouse will be added to your invoice. Our goal is to provide you with everything you need - if you do not find it in this catalog, let us know and we'll find it for you!

PRODUCT WARRANTY

Aircraft Spruce & Specialty Co.'s obligation is limited to repair or replacement of the purchased product only, and under no circumstances shall Aircraft Spruce & Specialty Co. be liable for any loss, damage, injury, cost of repair or consequential damages of any kind in connection with the sale, use or repair of any product purchased from Aircraft Spruce & Specialty Co. Products sold are subject to manufacturer's warranty policy. Defective merchandise or out of box failure of product is repaired or replaced at manufacturer's option. Avionics, electrical, instruments, or similar products that are defective are subject to manufacturer's warranty only, and will not be replaced immediately from Aircraft Spruce inventory.

WAIVER OF LIABILITY AND INDEMNIFICATION AGREEMENT

Inasmuch as Aircraft Spruce & Specialty Co. has no opportunity to supervise the manufacture, installation or maintenance of the parts supplied by it, nor any opportunity to participate in the design or manufacture of the various certificated and homebuilt aircraft in which its parts are utilized, the purchaser by placing an order and accepting said merchandise from Aircraft Spruce & Specialty Co. agrees that all materials purchased will be used solely at purchaser's risk and that purchaser will indemnify and hold Aircraft Spruce & Specialty Co., its owners and employees, free and harmless from all loss, liability or damage resulting from claims brought by any reason of any alleged failure or defect of any part or parts supplied by Aircraft Spruce & Specialty Co.

SPRUCE ONLINE

Aircraft Spruce Online provides customers with up to the minute account and order status utilizing their own personal computers. The Aircraft Spruce Web Site provides information on many of the products contained in this catalog, real time access to account information, open order status and filled order history available daily. Confirm order on line in real time as they are processed, and view backorder status and product availability. In addition, our partnership with UPS provides you with up to the minute shipping information including package status, scheduling, and delivery exception.

www.aircraftspruce.com

SHIPPING TIME

Orders placed by 4:00 pm EST and 4:00 pm PST Monday-Friday for "off-the-shelf", in-stock items are normally shipped same day from the respective location. Our shipping departments are closed on Saturdays and Sundays. Although we stock the vast majority of the items in our catalog, we cannot assure that they will all be on hand at all times. We ship every order as quickly as possible, and in the event of a delay, be assured that we are working hard to get your order shipped promptly. Due to order volume during holidays, we cannot guarantee that all orders placed can ship on the day after the holiday closure.

Orders for spruce, tubing and other special cut products may take a few days to ship depending on order volume. Special order products ship base on the lead times of each manufacturer. Note: Special Instructions may delay shipment of your order.

CRATING FEE

Please note that to ensure all full sheets of aluminum are delivered in good condition, a crating or sheet pack fee will apply. For 4' x 12' sheets, and any 4' x 8' or 4' x 6' shipment weighing over 100 lbs, a $85.00 fee will apply for a custom shipping crate to protect the material. For all 4' x 8' and 4' x 6' aluminum orders weighing under 100 lbs, a $45.00 fee will apply for a honeycomb reinforced shipping container to protect the material.

ADDING ON TO AN ORDER

In order to ensure efficient, accurate processing of orders in the warehouse, we have several restrictions for adding on to placed orders. The restrictions include:

- Orders that have "Packed" or "Invoiced" status
- Orders qualifying for free shipping
- Orders placed by PayPal
- Orders containing special order items

We have also implemented a 1:00 pm local time cutoff for add-ons at the respective origin warehouse on the day the order is shipping.

If the order has an "open" status and it is before the 1:00 pm cutoff, you can add on to it using the website in the "Order Self Help" screen or by calling our Customer Service department. If we cannot add products to the open order due to the restrictions listed above, we will be glad to take a new order for the additional products.

CERTIFICATE OF CONFORMANCE AND FORM 8130 (EXPORT)

Aircraft Spruce provides you with its own Certificate of Conformance for our products at no charge. This is noted on every invoice. Factory certification and test reports are available on some items and Form 8130 are available on FAA approved products. A cost of $100 per product is charged to secure these forms. Please inquire at time of order if test reports are available for the items you are ordering. If available, the forms must be requested at time of order and the product must be special-ordered from the factory with the forms. These forms cannot be furnished after you receive the product. Anticipate shipping delays if Form 8130 is requested. Do not order products using catalog part number if you require form 8130, as you will receive standard parts without the form. Simply describe the part and specifically request Form 8130. Due to delays and costs involved in furnishing these forms, we strongly suggest that you check to see if the Aircraft Spruce Certificate of Conformance will be acceptable in lieu of Form 8130.

AIRCRAFT SPRUCE GIFT CARDS

Do you want to give an aircraft builder or pilot a gift from Aircraft Spruce for a birthday, holiday, or another special occasion and don't know what to get? Let them decide. Give one of our sales representatives a call at (877) 4-SPRUCE and order an Aircraft Spruce Gift Card for any dollar amount you want. The cards are valid indefinitely and can be used toward the purchase of any products sold by Aircraft Spruce. These cards are very popular and are a gift that is sure to please any aviator. Available in any denomination. If selecting USPS First Class Mail, we'll ship any gift card only order prepaid within the United States and Canada. Gift Cards are valid at all Aircraft Spruce locations.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AIRCRAFT SPRUCE & SPECIALTY CO.

A COMPANY HISTORY

Bob and Flo Irwin

201 West Truslow Ave, Fullerton CA.
Home of Aircraft Spruce from 1973 to 1997

Present Home of Aircraft Spruce West
(225 Airport Circle, Corona, CA.)

Present Home of Aircraft Spruce East
(452 Dividend Drive, Peachtree City, GA)

The foundation for what is now Aircraft Spruce & Specialty Co. dates to the summer of 1956 when Flo and Bob Irwin founded Fullerton Air Parts at Fullerton Municipal Airport in Southern California. Bob, born and raised in Kansas City, MO., a pilot since the 1940's and active in the CAP and other aviation groups, knew airplanes and the parts that were needed to keep them flying. Flo, a native of Rochester, New York, had no aviation background but learned the business quickly and knew what it would take to keep customers coming back... fair prices and good service. Fullerton Air Parts grew into one of the largest retail aircraft parts suppliers in the western states during the next nine years.

In 1965, Bob and Flo Irwin sold the business and founded another one which sold only one product, aircraft grade spruce lumber for aircraft construction and restoration. Aircraft Spruce Co. quickly added more products to its small catalog and adopted the name Aircraft Spruce & Specialty Co., with a goal to offer everything pilots and aircraft builders need. As Aircraft Spruce served more customers and more and more products were added, staff grew from 2 in 1965 to over 300 today.

Jim Irwin, Bob and Flo's older son, grew up in the business, working in jobs such as cutting metal and spruce, pulling and shipping orders, and managing kit programs such as the Vari-Eze back in 1975 while still in college. Graduating from California State University at Fullerton in 1978 with a degree in business administration (marketing), Jim acquired the company and became president in 1980. Jim's wife Nanci, who graduated with an accounting degree from the University of Southern California in 1977, is vice-president and works full time managing the company's accounting and data processing departments. Jim Irwin has logged over 6000 hours as a multi-engine, instrument rated pilot since 1976 and Nanci Irwin is a licensed private pilot as well. They fly the company Cessna Conquest 425 extensively on business throughout the Southwest. Jim and Nanci Irwin have four children: Mike, Krissy, Jeff, and Rob, and the three boys are all members of the Aircraft Spruce management team. Mike, Jeff, and Rob are pilots and fly the company's Navion Rangemaster.

Flo and Bob Irwin, along with Jim's younger brother John, moved to Lake Havasu City, Arizona in the fall of 1983 and founded ACS Products Co., which manufactures a line of products which is distributed by Aircraft Spruce. Flo Irwin passed away on June 10, 1989, but the legacy of this warm, outgoing, and talented businesswoman lives on in the businesses she founded and built to serve the aviation community. John Irwin, his wife, Frances, and Bob Irwin now manage the ACS Products Co. operation and for their Cessna 182 out of Lake Havasu Airport. Bob Irwin was an instrument rated pilot with more than 2000 hours logged and based his 1968 Navion Rangemaster at Lake Havasu City until May 2000 when Bob retired as a pilot, after fifty years of flying, and moved the Navion to Chino Airport for his grandchildren to fly. Prior to acquiring the Rangemaster in 1976, Bob owned a Vultee BT-13B and a 1949 Ryan Navion. Bob Irwin passed away on June 26, 2015 at the age of 95, after being active in general aviation as a pilot and businessman for over 65 years.

Aircraft Spruce was housed in downtown Fullerton, CA. from its founding in 1965 until late 1997. The last 24 years in Fullerton the company was operated in a historic Fullerton former citrus packing house, which we eventually outgrew. In the fall of 1997, Aircraft Spruce moved to a new, 62,000 square foot facility in Corona, California. In the Spring of 2004, Aircraft Spruce East moved to a new 56,000 Sq. Ft. facility in Peachtree City, GA from its old home in Griffin, GA. Aircraft Spruce Canada was opened in Toronto in December 2006, and moved to a new facility at Brantford Airport in Ontario in late 2008. In late 2012 Aircraft Spruce Canada moved into a new 20,000 square foot facility at Brantford Airport. In September 2018 Aircraft Spruce Alaska opened in Wasilla. In 2019 Aircraft Spruce Midwest opened in a 55,000 sq. ft. distribution facility in West Chicago, IL. Regional warehouses are also located in Middletown, PA, Roanoke, TX, Chandler, AZ, and Melbourne, Australia. We are proud of the tradition of our company that now dates back some 60 years, and are pleased to have had the opportunity to help aviators around the world build the plane of their dreams. Our growth, from a single room in 1965 to over 300,000 square feet in ten facilities that we have today, has been a direct result of the loyalty and patronage of our customers. Our goal is to continue to provide the very best in products, prices, and customer service to our friends in the years to come.

CELEBRATING 60 YEARS OF SERVICE TO AVIATION!
1965 – 2025

AIRCRAFT SPRUCE THROUGH THE YEARS

1960'S

Flo Irwin starts a new business in the basement of the family home in Fullerton, CA in June 1965 selling aircraft grade spruce lumber from a one page flyer. In 1967, Aircraft Spruce moves to a small building on Amerige Ave. in downtown Fullerton and begins to sell other aircraft products from a small catalog.

1970'S

Aircraft Spruce moves to a larger building at 128 W. Wilshire Ave. in Fullerton and how carries and expanding range of products for homebuilders. Flo's husband Bob joins the company in 1972 and their son Jim starts as a parts packer and wood cutter during high school. In 1973 Aircraft Spruce moves to a large packing house at 201 W. Truslow in Fullerton where it will stay for 24 years. In 1975, Burt Rutan selects Aircraft Spruce as the distributor for his new Vari-Eze design and Aircraft Spruce goes on to sell hundreds of Vari-Eze, Long-EZ, and Quickie kits as the composite movement explodes.

1980'S

In 1980 Jim and Nanci Irwin assume leadership of Aircraft Spruce. Bob and Flo Irwin and their son John move to Lake Havasu City, AZ to start ACS Products Co. which becomes a key supplier to the aviation industry. Aircraft Spruce continues to expand it's product lines and quickly becomes a leading supplier of general aviation products such as batteries, spark plugs, oil filters starters, alternators, tires, instruments, and tools in addition to supplying a full range of experimental aircraft supplies. Company founder Flo Irwin passes away in 1989 at the age of 69.

1990'S

In 1993 Aircraft Spruce Avionics opens at Fullerton Airport allowing Aircraft Spruce to become a leading distributor for general aviation avionics equipment, and in 1995 the avionics division moves to Chino Airport.
In 1996 Aircraft Spruce acquires Alexander Aeroplane Co. in Griffin, GA and converts it to Aircraft Spruce East. The 25,000 sq. ft. facility allows for more inventory and faster shipment to customers in the eastern part of the United States. In 1997, Aircraft Spruce moves from the packing house in Fulleron to a new 60,000 sq. ft. facility in Corona, CA This provides ample warehouse space for the company's ongoing product line expansion as well as a larger retail store.

2000'S

In 2004 Aircraft Spruce East moves to a new 60,000 sq. ft. facility in Peachtree City, GA to handle the rapidly increasing order volume from around the world. From 2004 to 2009 Jim and Nanci's sons, Mike, Jeff, and Rob join the company after college and quickly become key members of the management team. In 2006 Aircraft Spruce Canada opens in Mississauga, Ontario and then moves to Brantford airport in 2008 to become the leading supplier of aircraft parts in Canada. Aircraft Spruce continues to grow its products lines in the retail and wholesale aircraft parts industry.

2010'S

Aircraft Spruce acquires a number of parts distribution companies and adds branches in Texas, Pennsylvania, Illinois, Alaska, and Arizona while adding 12 experienced outside sales agents and growing the Aircraft Spruce team to 300 employees. Aircraft Spruce is now a major sponsor of EAA and AOPA with large exhibit booths at AirVenture, Sun N Fun, and other regional events. Aircraft Spruce becomes an authorized distributor for almost all major aircraft product manufacturers. Company founder Bob Irwin passes away at age 95 in 2015.

2020'S

Aircraft Spruce acquires several more aircraft parts distribution companies and builds larger facilities for it's branches in Texas, Pennsylvania, and Alaska. In 2024 Aircraft Spruce Australia opens in Melbourne and quickly becomes a leading distributor to the Australian aviation market. Mike, Jeff, and Rob Irwin are vice presidents of the company leading the day to day operations as well as planning future expansion, while Jim and Nanci Irwin remain very active in company management. In June 2025 Aircraft Spruce celebrates 60 years of progress in which the company has grown from a one person operation in the Irwin family home to employing 350 people in 10 branches in the U.S., Canada, and Australia while shipping over 4000 orders per day. Thanks to all Aircraft Spruce customers worldwide for your trust and support over the past 60 years.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AIRCRAFT SPRUCE REGIONAL LOCATIONS

AIRCRAFT SPRUCE ALASKA
PALMER, ALASKA

AIRCRAFT SPRUCE MIDWEST
WEST CHICAGO, ILLINOIS

AIRCRAFT SPRUCE NORTHEAST
MIDDLETON, PENNSYLVANIA

AIRCRAFT SPRUCE CANADA
BRANTFORD, ONTARIO

AIRCRAFT SPRUCE AUSTRALIA
KEYSBOROUGH, VIC

AIRCRAFT SPRUCE WEST
CORONA, CALIFORNIA

AIRCRAFT SPRUCE SOUTHWEST
CHANDLER, ARIZONA

AIRCRAFT SPRUCE CENTRAL
ROANOKE, TEXAS

AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GEORGIA

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WWW.AIRCRAFTSPRUCE.COM

THE AIRCRAFT SPRUCE MANAGEMENT TEAM

JIM IRWIN
President

NANCI IRWIN
Vice President

MIKE IRWIN
Vice President
Procurement

JEFF IRWIN
Vice President
Operations

ROB IRWIN
Vice President
Marketing

TOM MARRACCI
Director of
Technology

DON ARRINGTON
Director of
Operations

LOIS JONES
Human Resources
Manager

JACK SAMUELS
Sales Manager

ANDREW BUCHANAN
Operations Manager

VERONICA BELTRAN
Customer Service
Manager

TAWNY CASTILLO
Logistics Manager

DEBBIE MOSS
Finance Manager

JOSH SOLIS
Warehouse Manager
West

ROSEMERY MAMANI
Accounting Manager

RYAN REICHMUTH
Branch Manager
Arizona

VINCE MARSH
Branch Manager
Illinois

LANCE YOUNG
Branch Manager
Pennsylvania

JOHNNY MYLES
Branch Manager
Texas

VICKIE STANG
Branch Manager
Nebraska

DAVE PUSKAS
Branch Manager
Canada

MICHELLE ROLL
Warehouse Manager
Alaska

RANDY DURHAM
Branch Manager
Alaska

ANDREY FERRELL
Branch Manager
East

AMY COSPER
Warehouse Manager
East

JENNIFER JOOSTE
Purchasing Manager

NICK WOOD
Product Support
Manager

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FRIENDLY, FAST, & EFFICIENT ORDER PROCESSING THAT'S THE AIRCRAFT SPRUCE WAY!

At Aircraft Spruce & Specialty Company, we handle every order with the same care and diligence that we did our first order back in 1965. Here is a glimpse of some of the many departments that process thousands of orders each week and ship them to our customers around the world.

Orders may be placed by mail, FAX, email, and online at www.aircraftspruce.com, or as most customers prefer, by phone with one of our friendly, helpful sales persons. Your order is quickly input into our computer system and printed immediately in the warehouse.

Our large staff of order pickers receive the orders in the warehouse, fill the order and pass it along to the shipping department for careful packaging and shipment. We carry over 100,000 different inventory items!

Warehouse inventory is carefully arranged in computer part number sequence for fast and accurate order completion. As your single source supplier, Aircraft Spruce stocks lumber, plywood, metals, composites, hardware, instruments, tools, covering supplies, avionics....and everything in between! Walk-in customers are invited to visit our stores located at all of our Regional Distribution Facilities.

Orders for specially cut steel and aluminum tubing, sheet, bar and plate are no problem here, and are processed on a daily basis. Aircraft Spruce furnishes raw materials to large end users in huge quantities at volume discounts, as well as cut pieces as small as one foot to homebuilders. Whatever you need, we've got it!

Hand selected aircraft grade spruce lumber was our very first product, and remains one of our specialty products today. All of our spruce is certified to MIL-S-6073 and is custom milled, inspected and packaged according to customer specifications.

An average of 4,000 packages per day leave the Aircraft Spruce warehouses via UPS, Parcel Post, Federal Express, air freight or sea freight on their way to our customers throughout the United States and worldwide. Our state-of-the-art in-house computer systems with complete order tracking capability makes Aircraft Spruce & Specialty Company the smart choice as your complete supplier for aviation materials and components.

AIRCRAFT KITS

COZY MARK IV

Cozy Mark IV Plans.....P/N 01-00178 ..... ---

CHRISTAVIA

MK-1 Plans.....P/N 01-00663 ..... ---
MK-2 Plans Complete .....P/N 01-00692 ..... ---

STARDUSTER

Starduster One SA 100 Plans.....P/N 01-00425 ..... ---
Starduster One SA 300 Plans.....P/N 01-00424 ..... ---
Acroduster Too SA 750 Plans.....P/N 01-00427 ..... ---
Starlet SA 500 Plans.....P/N 01-00428 ..... ---
V-Star SA 900 Plans .....P/N 01-00429 ..... ---

WITTMAN TAILWIND

Wittman Tailwind Plans.....P/N 01-10007 ..... ---

EVANS VP-1 VOLKSPLANE

VP-1 Plans and Handbook .....P/N 13-11560 ..... ---

PIETENPOL AIRCAMPER

Original Pietenpol Air Camper Plans.....P/N 01-01307 ..... ---

SKYOTË

Skyote Plans Kit .....P/N 01-01512 ..... ---

BABY GREAT LAKES, SUPER BABY LAKES, AND BUDDY BABY LAKES

Plans for Baby Great Lakes .....P/N 01-10010 ..... ---
Plans for Super Baby Lakes.....P/N 01-10011 ..... ---
Plans for Buddy Baby Lakes.....P/N 01-10012 ..... ---

ONE DESIGN

One Design Plans (w/ ID Plate) .....P/N 01-06010-C ..... ---

OTHER KITS & PLANS

• ACRO SPORT • ACRO SPORT II • ACROLITE • AQUAJET-X • BAKENG DEUCE • BK FLIER • BREEZY • CYGNET • DAISY MAE • ERACER • FLY BABY • GP-4 • KR-1 and KR-2 • MEYER'S LITTLE TOOT • MORIN M85 • OSPREY • PAZMANY PL-9 STORK • POBER (CORBEN) JUNIOR ACE TWO-PLACE • POBER PIXIE - SINGLE SEAT • POBER SUPER ACE - SINGLE SEAT • SKYBOLT SONERAI • SONEX • VOLMER VJ-22 AMPHIBIAN • ZENITH STOL CH-750

SEE WEBSITE FOR KITS & PLANS!

SEE WEBSITE FOR MATERIAL KITS FOR THESE AIRCRAFT!

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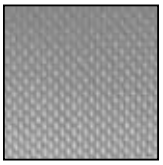
Please view our website for current prices.

COMPOSITE MATERIALS

STANDARD E-GLASS FIBERGLASS CLOTH

Fiberglass cloth is exactly what the name says - glass. Fine fibers are spun from molten glass marbles, gathered into yarn and woven into a strong, supple glass fabric. It can be folded, rolled or draped, like any other loosely woven fabric - but it can be chemically transformed into solid sheets of tremendous strength. All the fiberglass fabrics listed below are volan treated for maximum strength and resistance to moisture and abrasion. They feature a weave that is tight enough for high strength, yet open enough for thorough wetting by resins.



1.45 oz./sq. yd. Lightweight Industrial Cloth used in Osprey and other designs. Widely used by model builders, known as “Deck Cloth”, Thread Count 60 x 47.
#1080 (P/N 1080-50) 50” Width.....**--- yd**

3.16 oz./sq. yd. Lightweight Industrial Cloth with aerospace applications. Excellent for model building. Only .004” thick. Crowfoot weave, which contours nicely. Thread Count 60 x 58. Breaking Strength 125 x 120 lb./in. Finished Weight 3.08 oz./sq. yd.
#120 (P/N 120-38) 38” Width.....**--- yd**

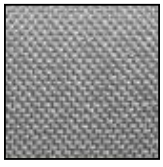
3.74 oz./sq. yd. Light weight Boat or Tooling Cloth. Tight plain weave. Thread Count 24 x 22. Breaking Strength. 160 x 135 lb./in. Finished Weight 3.60 oz./sq. yd. Thickness .0055”
#1522 (P/N 1522-50) 50” Width.....**--- yd**

5.79 oz./sq. yd. Lightweight Boat Cloth. Flat weave, not twisted. Thread Count 18 x 18. Breaking Strength 250 x 225 lb./in. Finished Weight 5.85 oz./sq. yd. Thickness .010”.
#3733 (P/N 3733-60) 60” Width.....**---/yd**

5.85 oz./sq. yd. Lightweight Boat or Tooling Cloth. Plain Weave. Thread Count 18 x 18. Breaking Strength 250 x 250 lb./in. Finished Weight 5.64 oz./sq. yd. Thickness .009” as used on KR Aircraft.
#7533 (P/N 7533-60) 60” /Width.....**--- yd**

8.5 oz./sq. yd. Lightweight boat or tooling cloth. Threads per inch: 18L x 18W. Used in Osprey aircraft and other homebuilts.
#7520 (P/N 7520-50) 50” width .....**--- yd**

8.95 oz/yd² Medium Weight Standard Industrial Cloth. 8 Harness Satin. Thread Count 57 x 54. Breaking Strength 350 x 330 lb./in. Finished Weight 8.95 oz./yd² Thickness .009 mils. Sold by the yard.
#7781 50”” Width (P/N 7781-50) .....**--- yd**
#7781 60” Width (P/N 7781-60).....**--- yd**



9.66 oz./sq. yd. Heavy Weight Boat or Tooling Cloth. Plain Weave. Thread Count 16 x 14. Breaking Strength 450 x 410 lb./in. Finished Weight 9.40 oz./sq. yd. Thickness .014”.
#7500 (P/N 7500-60) 60” Width.....**--- yd**

S-GLASS

The chemical formulation of S-glass differs from that of standard E-glass. Examples of E-glass are found in the Standard Fiberglass Cloth section of this catalog. S-glass is 30% stronger and 15% stiffer than E-glass and retains these properties up to 1500° F. S-glass is also considerably tougher than an equivalent E-glass. Other styles are available on request. Sold by the yard.

Specifications: • Style #: 4533 • Weight (Oz./Sq Yd.): 5.8 • Width: 60” Thickness: .009” • W x F: 18 x 18 • Weave: Plain

P/N 4533-60 .....**---/yd.**

GLASS MAT

100% Fiberglass in a non-woven state. It is used for bulk “build-up” in molding and fabricating components. Also useful for filling holes and badly damaged parts. 1.5 oz. Weight. 38” Width.

Note: Pricing is sold per yard.

P/N 01-06500 .....**---/Yd**

KNITTED E-GLASS FABRIC

Knitted fabrics are a relatively new format in composites. The performance of the glass is greatly enhanced by removing the interstices of the woven fabric and the crimped condition. E-glass in woven goods normally has 22,000 PSI tensile strength. Layered nonwoven goods give 27,000 PSI which is about a 20% improvement. Knitted glass offers greater ease of fabric orientation and saves time over multi-layered wet lay-ups.

Part No.	Weight/sq yd	Width	Ply Thickness	Price/yd
Biaxial - Double Bias +/-45°				
01-00640	17.6 oz	50”	17.0 mm	---

NOMEX HONEYCOMB

AHN 7800 is an Commercial Grade Nomex honeycomb particularly suited for use where resistance to corrosive attack and moisture are important. This material exhibits good strength characteristics and is fire resistant. It is available in a variety of cell sizes and densities to suit most purposes. Typical applications include lightweight non-structural bulkheads for ships, joiner panels, shelters, antennas, and auto body panels. This material is not intended for aircraft or aerospace applications. This material also exhibits good thermal insulation properties and also has good dielectric properties. This honeycomb is easily machined, formed, and shaped and well suited to adhesive bonding.

Description	Part No.	Price
Honeycomb 1/8” Thick, 1/8” Cell 4’ x 8’	01-00487	---
Honeycomb 1/8” Thick, 1/8” Cell 4’ x 4’	01-00489	---
Honeycomb 1/4” Thick, 1/8” Cell 4’ x 8’	01-01052	---
Honeycomb 1/4” thick, 1/8” Cell, 4’ x 4’	01-01564	---
Honeycomb 1/8” Thick, 3/16” Cell, 39” x 108”	01-01572	---
Honeycomb 1/8” Thick, 3/16” Cell, 39” x 54”	01-01573	---
Honeycomb 1/8” Thick, 1/4” Cell, 39” x 108”	01-01574	---

COMPOSITE MATERIALS

RUTAN FIBERGLASS CLOTHS

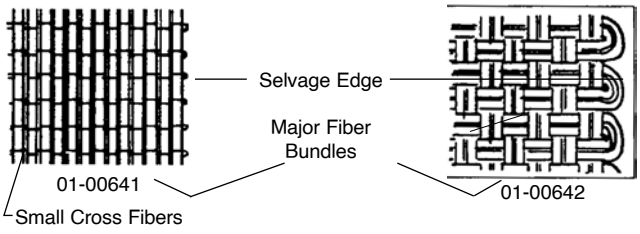
01-00641

01-00642

The most basic structural material in building a composite aircraft is glass cloth. The use of glass in aircraft structures, particularly structural sandwich composites, is a recent development. Glass cloth is available commercially in hundreds of different weights, weaves, strengths and working properties. Very few of these, however, are compatible with aircraft requirements for high strength and light weight. Even fewer are suitable for the hand-layup techniques developed by Burt Rutan for the homebuilder. The glass cloth featured here has been specifically selected for the optimum combination of workability, strength and weight. Two types of glass cloth, a bi-directional cloth (RA7725BID) and a uni-directional cloth(RA7715 UND) are used. BID cloth has half of the fibers woven parallel to the selvage edge of the cloth and the other half at right angles to the selvage, giving the cloth the same strength in both directions. UND cloth has 95% of the glass fibers woven parallel to the selvage, giving exceptional strength in that direction and very little at right angles to it. BID is generally used for pieces which are cut at a 45° angle to the selvage, a bias cut, which enables the builder to lay BID into contours with very little effort and provides the needed shear and torsion stiffness for flying surfaces. UND is used in areas where the primary loads are in one direction, such as wing skins and spar caps. Multiple layers of glass cloth are laminated together to form the aircraft structure. Each layer of cloth is called a "ply".

Unidirectional 7 oz. 38" Width Threads per inch: 80L x 18W
P/N 01-00641 ..... --- Lineal Yd.

Bidirectional 8.8 oz. 38" Width Threads per inch: 54L x 48W
P/N 01-00642 ..... --- Lineal Yd.



Quantity Discount: 15% on 500 Yds or more. Yardage must be on one fabric for discount, not combined. Discount on larger quantities quoted on request.

PRECISION SCISSORS

Experience easy, comfortable, and accurate cutting with the Precision Scissors. The extra-large handle fits up to 3 fingers in one loop to help provide more strength and comfort in the cut. Symmetrical handles also fit both left and right-handed users.

Features: Straight-edge blades easily slide through the fabric and are sharpened to the tip for smaller or appliqué cuts, OLFA's unique special honing process helps the blades grab the fabric and cut cleanly, with no material folding over the blades - even when cutting left-handed, Precision engineering, blades fully extend into the handles for durability and better cutting stability and pressure distribution, The professional quality rivet secures blade positioning for exceptional accuracy and retains smooth blade movement, even in heavy-use environments, Straight blades made of stainless steel (Blades are not serrated), Good for cutting stitchwork, thread, cloth, leather, fabrics, films, sign and graphics material, vehicle wraps, and more

P/N 01-01186 ..... ---

BIDIRECTIONAL WOVEN KEVLAR - 120

Kevlar" 49 aramid fiber was introduced commercially in 1972 and is the Du Pont registered trademark for its new high strength, high modulus organic fiber. It combines high tensile strength (43,000 PSI) and high modulus (19 million PSI) with light weight and toughness superior to other reinforcing fibers for plastics. It is available in yarns and rovings which meet all FAA requirements for flammability. It shows no degradation in jet fuel, lubricating oils, water, salt water or high humidity. At cryogenic temperatures (-320°F.) performance is excellent with essentially no embrittlement or degradation of fiber properties. Kevlar 49 can offer both a significant weight saving and improved stiffness versus glass in addition to superior vibration damping and good impact resistance. A kayak made with Kevlar 49, for example, weighs about 18 pounds while the weight of a comparable boat made with glass would be over 30 pounds. The advantages over glass in small aircraft are similar - weight savings and improved impact resistance. Kevlar 49 is used in a number of parts on the Lockheed L-1011 because of weight savings of up to 30% compared to similar parts made of glass. One unusual benefit of Kevlar is its "quietness". A cowling made of Kevlar will be quieter and less sensitive to engine vibrations than its glass or graphite counterpart.

Although all of the processes used in combining resins with glass fiber are adaptable to Kevlar 49 with little or no modification. The vinyl ester-type system is compatible, but the use of polyesters is not recommended because of poor bonding with Kevlar. The epoxy resin systems featured in this catalog are compatible with Kevlar 49 and have good wetting characteristics.

Kevlar 49 is stocked in three different fabric styles. Kevlar #120 is a very lightweight fabric, while #281 and #285 are identical except for the weaving pattern. Other weights and weaves of Kevlar are available on a special order basis. Be sure to specify the Kevlar style when ordering.

oz./ Sq.Yd.	Weight Width	Thickness	W x F	Weave	Breaking Strength Lbs/Inch	
					Warp	Fill
1.8	38"	.0035"	34 x 34	Plain	260	250

P/N 01-38100 ..... --- Lineal Yd.

Quantity Discount: 10% on 25-50 Yds. %; 15% on 50-100 Yds.; 20% on over 100 Yds.

BIDIRECTIONAL WOVEN LUMAT ARAMID - 4 HARNESS SATIN WEAVE 1500D

Unit of Measure	Linear Yard
Material Warp	Aramid
Material Weft	Aramid
Weave	4 Harness Satin
Ends Per Inch	13
Pics Per Inch	13
Yarn Size Warp	1500d

Yarn Size Weft	1500d
Tow Size	1500d
Weight	5oz/170gsm
Width	50"/127cm
Thickness	
Resin Consumption @ 45% Resin to Fabric by Weight	4.09opsy/137gsm

P/N 01-01665 ..... --- Lineal Yd.

INDUSTRIAL FABRIC SHEARS

Wiss No. 20W heavy-duty shears, ideal for cutting fiberglass cloth and all fabrics. Hot drop-forged steel.

Right Hand Shears ..... P/N 01-00397 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BIDIRECTIONAL WOVEN CARBON GRAPHITE

282

Woven graphite is a fabric introduced in recent years which has become an excellent alternative to fiberglass and Kevlar - only mils thick with great strength. In addition to its great strength, graphite fabric also has very low density and is very stiff. Although it is quite costly, the material saving is appreciable since only one course of graphite is required for 3 or 4 of fiberglass. It cuts considerably easier than Kevlar. The excellent qualities of the graphite fabric itself give it an immediate waiting market in the aircraft building field. Graphite fabric is stocked in the three different styles shown below. Other weights and weaves of graphite are available on a special order basis. Be sure to specify the graphite style when ordering. These carbon graphite cloths are not pre-preg fabrics.
*** Warning folding for shipment can damage the filaments in the fabric. Folding will be done at customers' risk and request only.**

CARBON FIBER - Plain Weave - Style 282						
Part No.	Weight oz. /Sq Yd.	Width	Thick-ness	W x F	Tensile Strength (KSI)	Price /yd.
01-00971	5.8	50"	.007"	12.5x12.5	675	---
01-28260	5.8	60"	.007"	12.5x12.5	675	---

TWILL - 2 X 2 WEAVE - Style 284						
Part No.	Weight oz. /Sq Yd.	Width	Thick-ness	W x F	Tensile Strength (KSI)	Price /yd.
01-00602	5.7	50"	.007	12X12	675	---
01-01232	5.8	60"	.007	12X12	675	---

STANDARD E-GLASS & FIBERGLASS TAPES

Tapes are woven from 8.7 oz./sq. yd. fiberglass cloth, .012" thick, into narrow widths with non-raveling selvage. Perfect for glassing seams, corners, edges fan for repair jobs. Sold in 50 yd. rolls.

1" Width 26 Warp, 17 Fill .....P/N 01-06610 .....Roll ---
2" Width 40 Warp, 17 Fill .....P/N 01-06600 .....Roll ---
3" Width 58 Warp, 17 Fill .....P/N 01-06700 .....Roll ---
4" Width 76 Warp, 17 Fill .....P/N 01-06705 .....Roll ---
6" Width 106 Warp, 17 Fill .....P/N 01-06710 .....Roll ---
12" Width 218 Warp, 17 Fill .....P/N 01-06720 .....Roll ---

UNIDIRECTIONAL CARBON 50K

Carbon Fiber Fabric Unidirectional 50k 200gsm/ 5.9oz 50" Zoltec PX35 Fiber.
Specifications:
• Tensile Strength: 600ksi • Tensile Modulus: 35msi • Electrical Conductivity: 0.00061 ohm-in • Density: 0.065 lb/in3 • Fiber Diameter: 0.283 mils • Carbon Content: 95% • Yield: 397 ft/lb • Spool Weight: 12 lb, 24 lb • Spool Length: 1640yd, 3280yd...P/N 01-01609 ..... ---

UNIDIRECTIONAL CAP FIBERGLASS TAPE

This 54 Yard roll of woven unidirectional tape consists of a plain weave construction with at least 80% of the fabric weight in the 0° or Warp direction.
This unidirectional tape can be used instead of unidirectional fabric for spar caps, wings and elevators. Contours well and cuts building time considerably. May be used with either polyester or epoxy systems. Used on Polliwagen. Long-EZ, Cozy. Adventure and applicable to all composites. • Fiber: E-Glass Fiberglass • Product Type: Woven Tape • Construction: Unidirectional • Density: 850 g/m2 • Width: 3" (75 mm) • Length: 54 Yards • Finish: Silane.....P/N 01-01651 ..... ---

UNIDIRECTIONAL CARBON FIBER FABRIC 50

Intermediate Modulus Hexcel IM2 UNI Directional Carbon Fiber Fabric/Cloth 12k 5.7oz/193gsm. This fabric has a tow size of 12k and is a UNI Directional Fabric.
Fiber type - Fiber type available is a Hexcel IM2 12k Intermediate Modulus Fiber. This yarn is smaller in size than a standard 12k yarn and visually replicates the look of a standard strength 6k carbon fiber yarn while offering over a 60% increase in tensile strength and reducing the weight in almost half. Pound for pound the IM2 offers a material approximately 2.5 times stronger than a standard carbon fiber yarn. Note: To harden the raw fabric into a usable form, you will need the appropriate resin or epoxy for your project. 50" Wide .....P/N 01-01664 .....---/Yd.

CARBON FIBER TUBING

Aircraft Spruce offers structural tubing and structural torsion tubing, engineered and built to meet your exact specifications and tolerances. Structural Tortion Tubing, in continuous lengths up to 40', is manufactured with the computer-controlled, fully-automated Helical Winding Process. We offer a broad array of Fiber Options and tubing wall thickness and diameter is determined on a case-by-case basis to suit your application.
Special Order Sold in 10 ft. lengths only (can cut for UPS shipment).

*The image shows two types of finish on this product. The standing tube is sanded and painted with a gloss finish. This is available for an additional cost of **---**. The tube lying on its side is a rough surface, which will be received when product is purchased.

D of Tube	Wall Thickness	Length	Part No.	Price
0.5"	.100	10'	03-00171	---
0.75"	.100	10'	03-00172	---
1.00"	.120"	10'	03-00173	---
1.25"	.120"	10'	03-00174	---
1.5"	.120"	10'	03-00175	---
1.75"	.120"	10'	03-00176	---
2"	.120"	10'	03-00177	---
2.5"	.120"	10'	03-00178	---
3"	.120"	10'	03-00179	---

CARBON GRAPHITE YARN TOW

High strength (470,000 PSI) carbon fibers are used as reinforcement in high performance structural composites for aircraft applications, recreational and industrial products. Carbon fiber filaments are finer than a human hair. These filaments are bundled together to make a fiber of 3,000, 6,000 or 12,000 filaments which is called a "tow". The tow is sized with an epoxy compatible material to improve the handling characteristics. It is then wound on a cardboard core holding from 4 to 6 pounds of fiber. 1 Lb. spool.
It appears that the 6K tow will prove most practical for homebuilding applications. This size will be available in the small units shown. The 3K and 12K sizes are offered in full spools only. The 3K tow is used primarily by weavers. The 12K is difficult to wet out but can be done by diligent brushing.

Actual Size	Part No.	Approx. Yield	Roll Size	Price/Spool
12K Tow	01-00004	621 Yd./Lb.	2 Lb.	---
12K Tow	01-00345	621 Yd./Lb.	4 Lb.	---

UNIDIRECTIONAL ARAMID - TWARON ROVING

ROLL Unidirectional Aramid fiber roving. This is 7500 denier, comprised of five strands of 1500 denier. Used in the popular geodesic dacron kayaks and boats by Platt Monfort, this roving has a wide variety of applications. **Specifications**: • Material: 1500 denier Twaron (aramid), 5 ends (7500 denier total) • Type: 1000 • Yield: 567 yards/pound (0.588 lbs/1000ft) • Elongation: 3.5%* (each end) • Break: 79 lb. +- 6.25%* (each end) .....P/N 968 ..... ---

EPOXY LAMINATING SYSTEMS

MVS-610 EPOXY RESIN LOW VISCOSITY INFUSION SYSTEM

MVS-610 is a very low viscosity epoxy resin intended for the vacuum-assisted resin infusion process. Two hardeners are listed here with different gel times for a variety of part sizes. The mixed viscosities of these two systems are very low, and result in rapid infusion in even the most dense fiber stacks. This feature is very desirable in production applications, allowing quick turnaround for increased production. The MVS-610 System is ideal for quickly producing a variety of parts and shapes that offer very good cured properties and long term stability.

Description	Quantity	Pot Life	Part No.	Price
MVS-610 Resin	Gallon	--	01-01654	---
MVS-615 Hardener	Quart	30 mins	01-01655	---
MVS-620 Hardener	Gallon	2 hour	01-01656	---
MVS-610 Resin & MVS-615 Hardener Kit	Gallon	-- / 30 mins	01-01657	---
MVS-610 Resin & MVS-620 Hardener Kit	Gallon	-- / 2 hour	01-01658	---

SYSTEM THREE QUIKFAIR EPOXY FAIRING PUTTY

Lightweight, micro ballooned filled, fast curing 2-part epoxy fairing putty with excellent moisture resistance. Use on both fiberglass and wood epoxy structures above or below the waterline. At 70° F it is sufficiently cured to be hand sanded in 3 hours or machine sanded in 4 hours. This allows you to apply 3 coats in a standard 8 hour shift or 6 in a round the clock basis. Complete a fairing or filleting job in a day rather than 3 or 4 days. **Note**: QuikFairs warm butter-like consistency makes it easy to measure by weight. Use care when measuring by volume as QuikFair does not self-level and may trap air pockets. As QuikFair is fast curing the working time is short. Mix no more than can be applied within 10 minutes.

24 oz. Kit ..... P/N 01-00404 ..... ---
1-1/2 qt. Kit ..... P/N 01-00405 ..... ---

EPOXY PREMIUM PIGMENTS

These Premium Pigments are a paste to tint polyester, vinyl ester, epoxy resin, and polyurethane. Add about 6% to 8% of pigment by weight or 1/2 pint of pigment per gal. of resin.

White - 1 oz ....P/N 01-45308 ..... ---
White - 8 oz ....P/N 01-45501 ..... ---
Black - 1 oz.....P/N 01-45319 ..... ---
Black - 8 oz.....P/N 01-45512 ..... ---

IMPACT RESISTANT LAMINATING EPOXY

DLRH-3212 is an unfilled, clean epoxy resin system with a long pot life. DLRH-3212 is a tough, strong, impact resistant resin with chemical resistance. It has excellent wetting quality on kevlar, carbon graphite and fiberglass cloth. Used extensively in construction of aircraft, race cars, motorcycles, helmets and sports equipment. Mixing Ratio by Wt: 100:30; Pot Life (200 Gm MASS) 60 Min; Tensile Strength @ 25 C 12,500; Flexural Modulus @ 25 C 40,900; Heat Deflection 325 F; Thermal Shock 72°F–125°F; Shore "D": 80, Density: Resin: 9.7, Hardener: 7.9, Mixed: 9.1; Shelf Life: Resin/Hardener 1 Year.

Quart Kit ..... P/N 01-00430 ..... ---
Gallon Kit ..... P/N 01-00431 ..... ---
5 Gallon Kit ..... P/N 01-00432 ..... ---

JEFFCO EPOXY LAMINATING SYSTEM

1307 Low Viscosity Resin / 3102 Fast Hardener - 100% solids 2-component epoxy laminating system with excellent wet out, low viscosity and high strength. Very low odor and toxicity. Easy to use, 4:1 weight or volumetric mixing, safe, fast curing products for a variety of use applications. Used for fast curing, penetrating wood coatings, adhesives and sealers, fiberglass laminating and microsphere filled fairing compounds. Excellent cold temperature cures down to 40°F. No solvents or VOC's. Non-hazardous, non-corrosive hardener.

3176 30-minute Medium R/T Epoxy Hardener - Fast setting, even in thin films. Good low temperature cure. Fast wetting of fiberglass reinforcements. Easy to use 4:1 mix ratio. High HDT at room temp, increasing with post cure. Low toxicity, very low odor. Non-hazmat.

Low Viscosity Laminating Resin

1307 LV, Pail (40 lbs) ..... P/N 01-07917 ..... ---
1307 LV, Gallon (8 lbs) ..... P/N 01-07914 ..... ---

Fast Hardener

3102, Pail (40 lbs) ..... P/N 01-07920 ..... ---
3102, Gallon (8 lbs) ..... P/N 01-07918 ..... ---
3102, Quart (2 lbs) ..... P/N 01-07915 ..... ---

Medium Hardener

3176, Pail (40 lbs) ..... P/N 01-07921 ..... ---
3176, Gallon (8 lbs) ..... P/N 01-07922 ..... ---
3176, Quart (2 lbs) ..... P/N 01-07923 ..... ---

KITS - Jeffco Epoxy, 1 gal. kit, fast ..... P/N 01-07916 ..... ---
Jeffco Epoxy, 5 gal. kit, fast ..... P/N 01-07919 ..... ---
Jeffco Epoxy, 1 gal. kit, medium .. P/N 01-07924 ..... ---
Jeffco Epoxy, 5 gal. kit, medium .. P/N 01-07925 ..... ---

AEROPOXY PT2712 VACUUM INFUSION EPOXY

PT2712 is a low viscosity epoxy system designed for the fabrication of parts and structures by the resin infusion method. This system flows extremely well, and produces dense, void-free laminates routinely. The cured properties of this system are very high, so it produces items with good strength and toughness with excellent long-term stability. Three hardeners are available for use with this resin, which provide a range of working times. The hardeners have gel times of approximately 1 hour, 2 hours and 3 hours, so, by proper selection between the three, it is possible to easily infuse any size structure. The three hardeners are identical except for reaction time, so no matter which hardener is chosen, the user can expect the same high performance properties. The mixed viscosity with all three hardeners is just over 300 centipoise, so the material flows very well, even in thin walled areas. It penetrates heavy fabric sections and wets out quickly for further ease of production.

Description	Quantity	Pot Life	Part No.	Price
PT2712 with Part B	1 Gallon	70 Minutes	01-01587	---
PT2712 with Part B	5 Gallons	70 Minutes	01-01590	---
PT2712 with Part B1	1 Gallon	122 Minutes	01-01588	---
PT2712 with Part B1	5 Gallons	122 Minutes	01-01591	---
PT2712 with Part B2	1 Gallon	175 Minutes	01-01589	---
PT2712 with Part B2	5 Gallons	175 Minutes	01-01592	---
PT2712 with Part B3	1 Gallon	40 Minutes	01-01593	---
PT2712 with Part B3	5 Gallons	40 Minutes	01-01594	---

FIRE RETARDANT LAMINATING EPOXY KITS

The epoxy systems in this group are highly engineered products designed to meet or exceed the requirements of the various flame retardant specifications for which they were developed. They are filled laminating compounds that have good handling characteristics and provide very high physical properties in addition to their excellent fire retardant capabilities. They are well suited to a wide variety of production and tooling applications where the combination of very good physical properties and outstanding flame retardant abilities will provide durable parts and tools. PT2475 is a filled, off-white epoxy laminating system designed for use in constructing fire retardant laminates for parts or reinforcements. PT2475 meets the requirements of the FAR 25.853 Specification. This system has a 1 hour pot life at normal ambient temperatures, which will allow the construction of larger laminated than would be possible with a faster material. The system cures well at room temperature, and the cure can be accelerated with the addition of mild heat if desired.

Gallon ..... P/N 01-01517 ..... ---
5 Gallons ..... P/N 01-01518 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

POLY EPOXY
STRUCTURAL EPOXY SYSTEM

Poly Epoxy is a true high-performance epoxy resin with unmatched tensile, compressive, and flex strengths. It also has unbeatable peel, shear, and fatigue resistance, as well as impact strength and fracture behavior. It's great for wings, canards, fuselages, tail feathers, and landing gear. Use it in molds or moldless construction. It parts easily and works beautifully in vacuum bagging. (Avoid silicone-treated peel ply.) It has TWO cure phases, while all other resins—epoxy, polyester, or vinyl-ester—have just one. The two phases occur all by themselves during the curing process. The resulting bond is tougher and stronger than any other.

Poly Epoxy Kit, Quart ..... P/N 01-07905 ..... ---
Poly Epoxy Kit, Gallon ..... P/N 01-07906 ..... ---
Poly-poxy Resin Gallon ..... P/N 01-07934 ..... ---
Poly-poxy Hardener Quart ..... P/N 01-07935 ..... ---
Poly-poxy Hardener 40 Gallon ..... P/N 01-07933 ..... ---

POLY EPOXY TECHNICAL DATA

Mechanical Properties:	w/Post Cure	w/o Post Cure
Tensile Strength, PSI	9600	8800
Elongation at Break, %	7.5	3.6
Tensile Modulus, PSI	470,000	460,000
Flexural Strength, PSI	19,000	14,500
Flexural Modulus, PSI	515,000	500,000
Compressive Strength, PSI	32,000	33,000
Shore D Hardness	82	70
Glass Transition Temp., °C	72	62
Heat Distortion Temp., °C	64	50
Water Immersion Weight Gain, % (140 °F, 30 days)	2.8	2.9

Rheology: Mixing Ratio: 3 parts Resin to 1 part Converter by Weight 10 parts Resin to 4 parts Converter by Volume

Kinetics:

Pot Life, 100 grams ..... 105 mins 1 quart ..... 75 mins
Mold Open Time ..... 3-4 hrs Tack Free Time ..... 5-6 hrs

AVAILABLE EXCLUSIVELY FROM AIRCRAFT SPRUCE

ALPHA POXY
NON-STRUCTURAL EPOXY SYSTEM

AlphaPoxy is a low-cost flexible epoxy system that is ideal for laying up non-structural parts like wheel pants, or fairings. Because it is flexible, we don't recommend it for structural applications, such as fabricating load-bearing structural aircraft parts. Use PolyEpoxy for these applications. This is a low-viscosity system specifically formulated for filling with microballoons, cotton flox, or milled glass fibers to make slurries. It was designed for maximum sandibility; when cured, it is soft enough to be easily cut with sandpaper smoothing a breeze. AlphaPoxy is also excellent when used as a final filler resin over structural parts when an epoxy gel coat is called for. You can use it in place of polyester resins for a much more durable part at a very attractive price.

AlphaPoxy Kit, 1-1/4 Gallon ..... P/N 01-07911 ..... ---
AlphaPoxy Hardener, Gallon ..... P/N 01-07909 ..... ---
AlphaPoxy Resin, 7/8 Gallon ..... P/N 01-07912 ..... ---
AlphaPoxy Hardener, 5 Gallon pail ..... P/N 01-07910 ..... ---
AlphaPoxy Hardener, 3/8 Gallon ..... P/N 01-07908 ..... ---
AlphaPoxy Resin, 5 Gallon pail ..... P/N 01-07913 ..... ---

Rheology: Mixing Ratio:

2 parts Resin to 1 part Hardener by Weight

AVAILABLE EXCLUSIVELY FROM AIRCRAFT SPRUCE

AEROPOXY PT1105 EPOXY SURFACE COAT

PT1105 is a white, general purpose room temperature epoxy surface coat resin. The creamy,smooth consistency of the mixed material allows easy application to the model surface with minimum drag. The thixotropic properties of PT1105 permits good coverage on points and sharp corners, and application to vertical surfaces without sagging. Due to the non-galling nature of PT1105, it will give good service in a variety of metal forming applications. When used with Part B hardener, the PT1105 system will cure quickly, and can be sanded or filed in 10 to 12 hours. The cured material is tough, with good chip resistance on edges and sharp details. PT1105 works very well in the fabrication of plastic faced plaster patterns when used with PT1105 B1 hardener.

Quart Kit ..... P/N 09-05263 ..... ---
Gallon Kit ..... P/N 09-05264 ..... ---
Gallon Pail Kit ..... P/N 09-05265 ..... ---

E-Z POXY
EPOXY LAMINATING SYSTEMS

In early 1996, Composite Design Co. developed E-Z Poxy to provide a replacement epoxy system for Epolite (Safe-T-Poxy) which is no longer produced by Hexcel. The E-Z Poxy series of laminating systems utilizes one resin and your choice of three hardeners for varying pot life and viscosity requirements. The E-Z Poxy systems offer the same handling and physical properties as the discontinued Epolite systems including ease of use, long pot life, rapid cure for demold or process continuation, and superior room temperature curing properties. Excellent for use in sport aviation, marine, and industrial applications.

E-Z 83 hardener is equivalent to Safe-T-Poxy standard hardener, E-Z 84 is equivalent to Safe-T-Poxy II hardener, and E-Z 87 is equivalent to Safe-T-Poxy slow hardener. E-Z Poxy products should not be mixed with materials produced by other epoxy manufacturers.

E-Z POXY PRICE LIST		
Description	**Part No.**	**Price**
E-Z Poxy 1-1/2 gal. kit* EZ 83 Hardener	01-07850	---
E-Z Poxy 5 gal. kit** EZ 83 Hardener	01-07950	---
E-Z Poxy 1-1/2 qt. kit EZ 83 Hardener	01-08050	---
E-Z Poxy 1 gal. resin	01-00245	---
E-Z Poxy 5 gal. resin	01-00246	---
E-Z Poxy 1/2 gal. Hardener	01-00247	---
E-Z Poxy 2-1/2 gal. Hardener	01-00249	---

*** 8 lbs. resin, 3.5 lbs. hardener ** 40 lbs. resin, 18 lbs. hardener**

E-Z POXY TECHNICAL DATA			
E-Z POXY RESIN SYSTEMS FROM COMPOSITE POLYMER DESIGN			
E-Z 10 Epoxy Resin	**E-Z 84 Aromatic Amine Hardener**		
E-Z 83 Aromatic Amine Hardener	**E-Z Aromatic Amine Hardener**		
E-Z 10 Resin (Viscosity* 1500 cps @ 77F with:			
HARDENER	EZ 83	EZ 84	EZ 87
MIXED PROPERTIES:			
Mixed Viscosity cps @ 77°F*	1300	800	1500
Viscosity Hardener cps @ 77°F*	410	140	830
Pot Life @ 77°F	2 hrs.	2 hrs.	5 hrs.
Tack Free @ 77°F	4 hrs.	8 hrs.	8 hrs.
Cure Time @ 77°F	24 hrs.	3 days	3 days
Mix Ratio by Volume	100/47	100/47	100/47
Mix Ratio by Weight	100/44	100/44	100/44
PHYSICAL PROPERTIES TG (F):			
R/T	151	151	142
P/C*	196	196	196
Elongation %	3.5	3.5	3.9
Specific Gravity	1.14	1.13	1.14
Linear Shrinkage @ 23C (4 days %)	.10	.10	.10
TENSILE STRENGTH PSI			
R/T	8,200	8,100	8,400
P/C	10,000	10,000	10,000
Tensile Modulus (PSI x 10 -5)	4.8	4.2	4.0
* Viscosity may vary +/- 10% *Post Cure for 2 hrs. @ 150°F			

E-Z Poxy systems provide excellent room temperature curing systems for hand layup of composite parts and tooling. The systems are designed to provide ample working time with the varied pot life options while providing a rapid finish cure. Post curing these systems will increase their physical properties as designated in the above data, however, post cure is not required.

EPOXY LAMINATING SYSTEMS

POLYESTER RESINS

Polyester resins are hygroscopic (they draw moisture from the air). There are two types of resin, and one or both types may be required, depending on the application. Type "A" resin has a small amount of wax in it, which comes to the surface and forms a barrier against the moisture. This permits the resin to cure completely and the surface is hard and easily sanded. Bond Coat "B" resin does not have any wax content. As a result the surface stays a little tacky, as the surface cure is being inhibited by moisture. This tacky surface provides excellent adhesion between coats. Bond Coat resin is therefore recommended for the first coat of resin to fill the weave of the glass cloth, for bonding fiberglass cloth to plywood or other surfaces and for multi-layers of glass cloth.

TYPE "A" RESIN - #1520-5 is a general purpose ortho surfacing resin intended for the finishing coat applied over the Bond Coat #1063-5, or for single coat application. A second coat may be applied after full cure and thorough sanding but is not recommended.

5 Gal. #1520-5 with 4 oz. Catalyst .....P/N 01-00348 ..... ---
Additional catalyst may be required. 2 oz ...P/N 01-01119 ..... ---

SURFACE CURING AGENT is used in polyester resin to improve sanding properties. Added to #1063-5 Bond Coat or #6060-5 Isophthalic, it will provide same sanding properties as in Type "A" Surfacing Resin. Use in proportions of 2 oz. per Gallon of resin. Surface Curing Agent is used in addition to catalyst.

4 oz. in Polyethylene Dispenser Bottle .....P/N 01-07100..... ---
Pint (16 oz.) in Polyethylene Dispenser Bottle...P/N 01-07200..... ---
Gallon (128 oz.).....P/N 01-07300..... ---

TYPE "B" RESIN - #L253T-20 is a general purpose bond coat ortho resin for use in making multi laminates. It will not cure to a high gloss finish. Use 1520-5 for finish coat to obtain smooth, hard gloss finish. Replaces #1063-5.

1 Gal. #L253T-20 with 1 oz. Catalyst.....P/N 01-00349 ..... ---
5 Gal. #L253T-20 with 4 oz. Catalyst.....P/N 01-00350 ..... ---
Additional catalyst may be required.
Same catalyst used for #1520-5 and #L253T-20.

Note: Use #1520-5 finish coating over #L253T-20 but never use #L253T-20 over #1520-5.

Above resins are not for use in making fuel tanks. For fuel tanks (except those for gasohol) use #6060-5 Isophthalic Resin.*
Additional catalyst may be required.
Catalyst same as for resins listed above.
* Iso Resin is highly flexible. Has excellent adhesion to metal, wood, concrete, fiberglass and other "hard-to-adhere" surfaces. Compatible with most fuels. Iso is a wax-free resin and must be over-coated with Type "A" Surfacing Resin to obtain a surface cure.

MEKP NORAC CATALYST

MEKP Norac Catalyst is the catalyst added to polyester resins and vinyl ester resins. As the catalyst mixes with the resin, a chemical reaction occurs, creating heat which cures the resin. Use approx. 1/2 oz per quart of resin. We recommend the use of our MEKP Catalyst Dispenser for accurate measuring and pouring of catalyst.

2 oz .....P/N 01-01119 ..... ---

MGS EPOXY RESINS

MGS epoxy resins are approved for the production of certificated aircraft parts. The 335 and 285 systems are especially suited for homebuilders because of their long shelf lives, excellent workability, physiological friendliness, adjustable cure rates and excellent static and dynamic strength characteristics. The 285 system is available with fast and slow hardeners which can be blended with each other in any proportion to provide the desired working life and cure cycle. Pot lives and working times can be adjusted from fifteen minutes, using the fast hardeners, to six hours, when the slow hardeners are employed. Once the hardeners have been blended, the specified resin to hardener mixing ratio must be maintained. The 335 System is available only with fast hardener. Components of the 335 system should not be mixed with those of the 285 system. With both systems, if only the slowest hardener is used, the cure times should be extended to a few days, otherwise some brittleness may be noted. While room temperature curing results in good properties when the faster hardener combinations are used, some curing at elevated temperatures or post curing will result in the highest achievable strength and Tg, with the slower blends. Even unfavorable low temperature and high humidity conditions in the work environment will not affect the quality of the product and high gloss, uncontaminated, tack free surfaces are achievable every time. The resins do not contain any unreactive dilutants which with many systems result in de-gassing and bubbling of the painted finish. The MGS resins do NOT contain aromatic amines. While proper processing practices should be maintained, the physiological friendliness of these systems have been demonstrated by many years of production experience. The 285 system has slightly higher physicals than the 335 and will also achieve a higher maximum Tg after post curing. While the 335 is more viscous than the 285, after mixing with the appropriate hardeners, their viscosities are comparable. MGS systems are used in the construction of the Cozy, Diamond, Cirrus and other aircraft.

System 285 (Max. Tg 105 C - 110 C; 195 F - 230 F)		
Mixing ratio Resin:Hdnr	**Pot life**	**Mixed Viscosity@20C**
100:50 by volume	H285-F 40 min	300-500 cp
100:40 by weight	H287-S 4 hours	
	H285 : H287	
	40 : 60 2 hours	

System 285 Prices

L285 Resin (1 Gal.) .....P/N 01-41000 ..... ---
H285F Hardener (.25 gal/1 qt.) .....P/N 01-41005 ..... ---
H287S Hardener (.25 gal/1 qt.)*.....P/N 01-41006 ..... ---

***Important Shipping Information- H287S Hardener can be shipped UPS ground only. A $25 hazardous fee, and a $45 box fee applies (per quart). Can also be shipped truck collect.**

System 335 (Max. Tg 75 C - 80 C; 160 F - 180 F)		
Mixing ratio Resin:Hdnr	**Pot life**	**Mixed Viscosity@20C**
100:45 by volume	H335-F 15 min	800 cp
100:38 by weight	H340-S 6 hours	400 cp
	H335 : H340	
	50 : 50 1.5 hours	
	20 : 80 4 hours	

System 335 Prices

L335 Resin (Gal.) .....P/N 01-41100 ..... ---
H335F Hardener (.225 gal/0.9 qt.) .....P/N 01-41105 ..... ---
H340S Hardener (Slow) .....P/N 01-41106 ..... ---

Two units of hardener are required for each Gallon of resin

VINYL ESTER RESIN

****Note: 3 month shelf life from date of manufacture. We suggest ordering when you are ready to use.****

Dow Chemical's Derakane 411-350 PA Vinyl Ester Resin is an epoxy-based Vinyl ester designed to provide superior toughness and high corrosion resistance. Many leading kit aircraft manufacturers use vinyl ester resins extensively due to its quality and ease of fabrication. We furnish medium "promoted" vinyl ester 411-350 PA resin which includes CONAP, DMA the resin is cured by adding the MEKP which is furnished with the kit. Gel times vary according to the amount of MEKP added and the ambient temperature. Shelf life of promoted vinyl ester resin is short at only a few months.

MEDIUM PROMOTED: Includes CONAP, DMA and other additives.
Add MEKP for complete cure: Quart .....P/N 01-01076..... ---
Gallon.....P/N 01-07350..... ---

CATALYST LARGE QUANTITY CHART

Catalyst Concentration	Resin Quantity		
	Quart	**Gallon**	**5 Gallon**
1/2%	1/16 oz.	2/3 oz.	1-1/3 oz.
3/4%	1/4 oz.	1 oz.	5 oz.
1%	1/3 oz.	1-1/3 oz.	6-2/3 oz.
1-1/2%	1/2 oz.	2 oz.	10 oz.

WARNING: Mekp Catalyst is very dangerous to the eyes. Always wear full goggle protection and have running water at hand when working with Mekp.

CATALYST SMALL QUANTITY CHART (20 -30 minute pot life at 2% mix ratio)

Catalyst Concentration	Resin Quantity - 30 drops = 1 cc				
	2 oz.	**4 oz.**	**8 oz.**	**12 oz.**	**16 oz.**
1/2%	9 drops	18 drops	36 drops	1.8 cc	2.5 cc
3/4%	14 drops	27 drops	2 cc	3 cc	4 cc
1%	18 drops	36 drops	2.5 cc	3.75 cc	5 cc
1-1/2%	27 drops	2 cc	4 cc	6 cc	8 cc
2%	36 drops	2.5 cc	5 cc	7.5 cc	10 cc

MEKP Clear Catalyst 1 oz.....P/N 01-01110 ..... ---
MEKP NORAC Catalyst Only (4 oz.) .....P/N 01-07325 ..... ---
Vinyl Ester Resin 411-350PA - Quart Kit ....P/N 01-01109 ..... ---
Vinyl Ester 1-Gal. Kit (Resin & Catalyst).....P/N 01-07355 ..... ---

Typical room-temperature properties of clear castings made with DERAKANE 411 resins

Property	**DERAKANE 411-350PA**
Tensile Strength, PSI	11-12,000
Tensile Modulus, units 105 PSI	4.9
Elongation, %	5-6
(DERAKANE 411-350)	(7-8)
Flexural Strength, PSI	16-18,000
Flexural Modulus, units 105 PSI	4.5
Compressive Strength, PSI	16-17,000
Compressive Modulus, units 105 PSI	3.5
Compressive Deformation at Yield, %	6.5-7.8
Specific Gravity	1.12
Heat Distortion Temp.,°F	210-220
Barcol Hardness	35

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

EPOXY LAMINATING SYSTEMS

AEROPOXY FROM PTM&W INDUSTRIES

PR2032 is a medium viscosity, unfilled, light amber laminating resin that is designed for structural production applications. 3 hardeners are available for use with PR2032. PH3660, has a 1-hour pot life. When used with either of these hardeners, the system gives excellent wet-out of fiberglass, carbon and aramid fibers. AEROPOXY contains no MDA (a known liver toxin and carcinogen) and meets or exceeds current OSHA requirements for safe use. Hardener PH3665 has a longer pot life than PH3660, 2 hours, that is useful for vacuum bagging larger parts before the resin has gelled. Hardener PH3630 is intended for smaller laminates, fast repairs or additions to a primary structure. PH3630 pot life is 30 min.

Hardener PH3663 is the standard production hardener for fabricating composite parts. PH3663 a 90 minute working time provides more time for construction. This hardener provides similar mixed viscosities, so handling will be basically the same, except for the different working times.

Part No.	Description	Wt. (lbs.)	Price
01-42125	1 quart PR2032 Resin	2.25	---
01-42130	1 pint PH3660 Hardener	.66	---
01-42135	PR2032/PH3660 Quart Kit	2.91	---
01-42140	3/4 Gallon PR2032 Resin	7.5	---
01-42145	1 quart PH3660 Hardener	2.0	---
01-42150	PR2032/PH3660 Gallon Kit	9.5	---
01-42155	5 Gallon PR2032 Resin	48	---
01-42160	2 Gallon PH3660 Hardener	13	---
01-42165	PR2032/PH3660 Pail Kit	61	---
01-00160	1 pint PH3630 Hardener (fast)	--	---
01-00161	1 quart PH3630 Hardener (fast)	--	---
01-00162	1 pint PH3665 Hardener (slow)	--	---
01-00163	1 quart PH3665 Hardener (slow)	--	---
09-05266	1 Pint PH3663 Hardener	--	---
09-05267	1 Quart PH3663 Hardener	--	---
09-05268	1 2.5 Gallon Pail PH3663 Hardener	--	---
09-05269	1 30 Gallon Drum PH3663 Hardener	--	---

Aeropoxy mixing ratio — 100:27 by weight, 3:1 by volume.

WEST SYSTEM EPOXY

WEST SYSTEM brand resins and hardeners, form a two-part epoxy system developed by Gougeon Brothers specifically for wood and composite boat construction. Rutan Aircraft Factory now recommends WEST SYSTEM epoxy for certain homebuilt aircraft applications, particularly where a moisture resistant epoxy is desired. 105 Resin is the base material on which all of the WEST SYSTEM epoxy systems are built. The resin is a clear, light amber, low-viscosity liquid. It is designed specifically to wet out wood fiber. With roller applications, it possesses excellent thin film characteristics in flowing out and is self-leveling without fish-eyeing. Its relatively high flash point makes it safer to work with than polyesters. It can be cured in a wide temperature range, then sanded and shaped. It cures quite clear so that the natural finish shines through. 205 Fast Hardener, when mixed with the 105 Resin in a ratio of 5 parts Resin to 1 part Hardener, yields a high-strength, rigid solid with excellent cohesive properties and provides an excellent moisture vapor barrier. The 105 Resin/205 Fast Hardener has a pot life of 10-15 minutes at 70°F. It is also recommended in coating applications where natural finishing is desired. Partial cure time at 70°F is 5-7 hours. 206 Slow Hardener is a low-viscosity mixture of polyamines. The 105 Resin/206 Slow Hardener has a pot life of 30-40 minutes at 70°F. It is normally used when extended time is needed for large coating and bonding applications. It is especially well suited to working in warmer climates. Partial cure time is 9 hours at 70°F.

WEST EPOXY KITS / WEST COMPONENTS

Kit No.	Kit Size	Part No.	#105 Resin	Hardener		Kit Price	Resin		Fast Hardener		Slow Hardener	
				#205 Fast	#206 Slow		Part No.	Price	Part No.	Price	Part No.	Price
A-1	1.2 Qt.	01-08100	32 oz.	7 oz.	------	---	01-00353	---	01-00356	---	01-00359	---
A-2	1.2 Qt.	01-08200	32 oz.	------	7 oz.	---	32 oz.	-----	7 oz.	------	7 oz.	-----
B-1	1.2 Gal.	01-08300	126 oz.	27 oz.	------	---	01-00354	---	01-00357	---	01-00360	---
B-2	1.2 Gal.	01-08400	126 oz.	------	27 oz.	---	126 oz.	-----	27 oz.	------	27 oz.	------
C-1	5.25 Gal.	01-08500	4.35 gal.	121 oz.	------	---	01-00355	---	01-00358	---	01-00361	-----
C-2	5.25 Gal.	01-08600	4.35 gal.	------	121 oz.	---	4.35 gal.	-----	121 oz.	------	121 oz.	------

ORDER 301/303 PUMP PACKS SEPARATELY.

301/303 PUMP PACK

Using Mini Pumps helps ensure accurate metering of resin/hardener mixture. Pumps mount directly on resin and hardener containers. One stroke from each pump delivers proper ratio of resin to hardener. Kit consists of 3 pumps for A, B, and C epoxy kits..... P/N 01-00318 ..... ---

207 SPECIAL COATING HARDENER

This hardener is used where a very clear, moisture resistant natural wood finish is needed. Can be used to laminate veneers where joints will be subjected to sunlight. Improves sun resistance. Pot life: 20 min., cure solid in 9-12 hours, and maximum strength within 7 days.

.66 pint.....P/N 207-SA ..... ---
.33 gal.....P/N 207-SB ..... ---
1.45 gal.....P/N 207-SC ..... ---

209 TROPICAL HARDENER

This hardener is used for bonding applications in warm or humid weather or when extended working time is needed. Provides twice the working time as 206 hardener. Forms a clear, amber solid when cured. Pot life is 40 minutes, solid state in 24 hours, and maximum strength in 5-9 days.

.66 Pint .....P/N 01-00362 ..... ---
.33 Gallon .....P/N 01-00364 ..... ---
1.45 Gallon .....P/N 01-00363 ..... ---

WEST SYSTEM ACCESSORY PRODUCTS

West System User Manual.....P/N 01-08750 ..... **FREE**

West System 101 Handy Repair Pack - Contains 105 resin & 205 hardener plus accessories needed for small repairs..... P/N 01-08760 ..... ---

West System 501 White Pigment - use this epoxy based pigment to provide a neutral white base for the final coloring system. Mix at ratio of 1 teaspoon to 8 oz. of epoxy. 8 oz. can.....P/N 01-08775 ..... ---

West System 410 Microlight an excellent filler which provides easy workability for a variety of applications. Easy to sand and cures to a neutral tan color.

1.7 oz.....P/N 01-08780 ..... ---
4.3 oz.....P/N 01-08785 ..... ---

423 GRAPHITE POWDER

423 Graphite Powder can be mixed with WEST SYSTEM epoxy to produce a low friction coating with increased scuff resistance and durability. 423 is often used as a bearing surface, and as a coating on the bottoms of racing craft that are dry sailed.....P/N 09-00315 ..... ---

WEST SYSTEM FIBERGLASS REPAIR KIT

Useful for a wide variety of fiberglass repairs, including repair of cracks, scrapes, loose hardware, gelcoat blisters, delaminated cored panels, holes, keel damage, and more. Kit contains eight pre-measured packets of 105 Epoxy Resin and 205 Fast Hardener (19.2g mixed), adhesive filler, fairing filler, mixing cups, fiberglass fabric, reusable mixing stick/applicator, syringe, two coating brushes, three pairs disposable neoprene gloves and complete handling and repair instructions.

Kit 105-k.....P/N 01-01521 ..... ---

PRO-SET EPOXY RESINS AND HARDENERS

Note: This is the NEW 2013 Formula. NOT compatible with original formula.

LAM-125 Resin: Low Viscosity Laminating Resin
LAM-229 Hardener: Slow Laminating Hardener
LAM-135 Resin: Medium Viscosity Laminating Resin
LAM-226 Hardener: Medium Laminating Hardener
LAM-135 Resin: Medium Viscosity Laminating Resin
LAM-237 Hardener: Extra Slow Laminating Hardener

Description	Size	Part Number	Price
125 Resin	1 Gal.	01-01221	---
135 Resin	1 Gal.	01-01223	---
224-1 Fast Hardener	1/3 Gal.	01-01688	---
224-2 Fast Hardener	1.4 Gal.	01-01689	---
226 Hardener	1/3 Gal.	01-01224	---
229 Hardener	1/3 Gal.	01-01222	---
237 Hardener	1/3 Gal.	01-01693	---
237 Hardener	1.49 Gal.	01-01210	---

ECOPOXY UVPOXY

Ecopoxy UVPoxy Kit is high performance two part system that is commonly used for table tops, bars, wood finishes, see-through clear casting, art work, layup, and other applications requiring a clear, strong coating. It cures to a crystal clear, high build, long lasting, glass-like finish, and will not blush or sweat under high humidity conditions. UVpoxy is designed to resist yellowing caused by the sun and other ultra violet light sources.

Features: • Crystal Clear - Cures to a clear, glass-like finish • Low Odour - It's safe to use indoors, no ventilation or respiration required • UV Stable - Won't fade or yellow, your finishes will last forever! • User Friendly - Mixes at a 1:1 mix ratio, very easy to calculate amounts needed • Low Drip - Thicker viscosity ensures it does not drip onto other areas • Self-Leveling - Self-levels perfectly, making for a nice even finish every time!

Specifications: • Color: Clear (Visual) • Mix Ratio: 1:1 • Pot Life: 25-30 Minutes

Description (Metric / Approx. US)	Size	Part No.	Price
EcoPoxy UVPoxy Kit	500 mL / 1 Pt	09-04095	---
EcoPoxy UVPoxy Kit	1 L / 1 Qt.	09-04096	---
EcoPoxy UVPoxy Kit	4 L / 1 Gal.	09-04098	---

ECOPOXY FAST KIT - 1.6 GAL

Our Fast Kit is most commonly used as an adhesive or in an injection box for pultrusion. It has a pot time of just 2-3 minutes, and features a high-strength, waterproof bond to a variety of materials including wood, fiberglass, metal, glass, tile, and more.

Specifications: • Color: Yellow (Visual) • Mix Ratio: 2:1 • Pot Life: 2.5-3 Minutes.

P/N 09-04116 ..... ---

POLYESTER GEL COATS

These polyester gel coats can be used as the surface of fiberglass parts layed up in molds or used in the repair of gel coat surfaces on fiberglass parts. On surface repairs, the gel coat must be sealed to fully cure. PVA can be used to seal the gel coat.

Color	Part No.	Pint Price	Part No.	Quart Price	Part No.	Gallon Price
Black	09-01668	---	09-01666	---	09-01667	---
White	09-01669	---	09-01664	---	09-01665	---
Dark Blue	09-01670	---	09-01671	---	09-01672	---
Red	09-01673	---	09-01674	---	09-01675	---
Clear	09-02159	---	09-02160	---	09-02161	---

V-NOTCHED ECOPOXY SPREADER

The perfect tool for evenly spreading EcoPoxy on large, flat surfaces. This tool gives you 3 V-notched spreading options and a flat side for scraping and cleaning.

P/N 09-05355 ..... ---

ECOPOXY LIQUID PLASTIC KIT

The Liquid Plastic kit cures to a clear, UV resistant, plastic-like finish that resists scratching and yellowing. This product will not blush or sweat under high humidity conditions. EcoPoxy® is a Plant based, 100% solid, waterproof, non-toxic, non-solvent, non-conductive, epoxy system that is Certified "Green"..P/N 09-04567 ..... ---

ECOPOXY ECOTROWEL MULTI-PACKS

EcoTrowel is a high performance epoxy filler and profiling product formulated for surface repair and preparation. It is easy to mix and spread, and has a peanut-butter like consistency (contains no peanuts!). EcoTrowel is lightweight and suitable for an infinite variety of composite, architectural, industrial and art-related applications. It can be applied to wood, concrete - even canvas - to a thickness of 1/2" without sagging or slumping. It can be easily sanded, shaped, drilled, tapped, machined, routered & remains durable for life.

25g.....P/N 09-05353 ..... ---
100g.....P/N 09-05354 ..... ---

ECOPOXY GLOPOXY KITS

GloPoxy is a glow-in-the-dark epoxy made with high-grade photo luminescent ingredients to maximize glow brightness and duration. The formula absorbs bright light as energy and releases the absorbed energy when placed in the dark. This charge cycle can be performed endlessly and with any light source. GloPoxy is formulated to glow-in-the-dark for hours and contains no fillers or impurities to interfere with the glow. GloPoxy is durable, UV stable, and chemical, water & abrasion resistant. It can be used indoor and outdoor, and can be applied to virtually any surface. It's a perfect solution for both safety and novelty applications.

Blue .....P/N 09-05348 ..... ---

ECOPOXY PIGMENT COLOR SETS

Add some color to your epoxies. These are used to tint epoxy resins used as coatings, paints, gelcoats, laminating, casting or self-leveling resins. EcoPoxy epoxy concentrated pigment consist of pigments suspended in epoxy resin which allows them to blend thoroughly into epoxy resins to make very uniform colors. They are used to tint epoxy resins used as coatings, paints, gelcoats, laminating, casting or self-leveling resins. The high tinting properties enable the use of little quantities of pigment. The quantity to be used depends on the color chosen as some colors cover better than other (yellows for example need higher quantities than other colors). ECOPOXY color pigments mix easily.

60ml.....P/N 09-05349 ..... ---
120ml.....P/N 09-04718 ..... ---
240ml.....P/N 09-05351 ..... ---

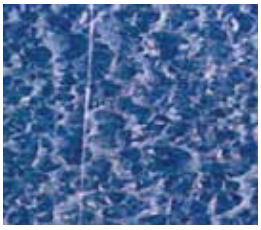
Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

STYROFOAM – SMALL CELL

STYROFOAM FB – Low density (2 lb./ft^3). Tight closed cell structure leaves no voids between the cells. The result is high compressive strength and unequaled resistance to water penetration. Has excellent resistance to bases, salts, alcohols and most acids but not to petroleum based solvents. Not for structural use.

Foam Type	Density	Thickness	Sheet Size	Part No.	Price/Sheet
Styrofoam (Blue) Small Cell	2 Lb/Ft^3	1/2”	24” x 48”	01-09400	---
		1/2”	24” x 96”	01-09500	---
		1”	24” x 48”	01-09700	---
		1”	24” x 96”	01-09800	---
		1-1/2”	24” x 96”	01-09900	---
		2”	24” x 48”	01-10000	---
		2”	24” x 96”	01-10100	---
		4”	24” x 48”	01-10200	---

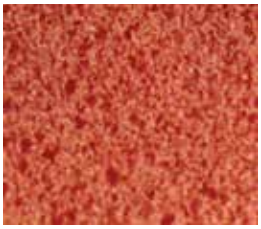
POLYSTYRENE – LARGE CELL



POLYSTYRENE – LARGE CELL This blue large cell expanded foam is 2 lb. per cubic feet density and cuts easily using a hot wire to airfoil shapes. Compatible with most adhesives, but should be used only with epoxies, not polyester resins. Will dissolve in fuels and solvents. Cuts smoothly with hot wire and airfoil shapes. Used in the construction of VariEze, Long-EZ, Cozy, and other composite aircraft.

Foam Type	Density	Thickness	Sheet Size	Part No.	Price/Sheet
Styrofoam FB (Blue) Large Cell	2 Lb/Ft^3	8”	16” x 4”	01-37600	---
		8”	16” x 25”	01-01166	---
		8”	16” x 42”	01-10600	---
		8”	16” x 67”	01-10800	---
		8”	16” x 109”	01-10900	---

POLYURETHANE FOAM



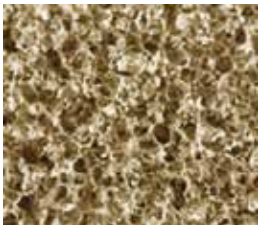
CAUTION

DO NOT USE HOT WIRE!

URETHANE – This foam is easily contoured using a large knife, and then sands well to final form. Excellent for producing the fuselage, wing tips, and other curved parts. It is fuel resistant and can be used for fuel cells. Compatible with most adhesives. Do not hot wire polyurethane foam. Available in tan or green.

Foam Type	Density	Thickness	Sheet Size	Part No.	Price/Sheet
Urethane (Tan)	2 Lb/Ft^3	1/2”	24” x 48”	01-11300	---
		1/2”	48” x 48”	01-11400	---
		3/4”	24” x 48”	01-12150	---
		3/4”	24” x 96”	01-12160	---
		1”	24” x 48”	01-11500	---
		1”	24” x 96”	01-11600	---
		1”	48” x 96”	01-11700	---
		2”	24” x 48”	01-11900	---
		2”	24” x 96”	01-12000	---
		2”	48” x 96”	01-12100	---

DIVINYCELL FOAM



CAUTION

DO NOT USE HOT WIRE!

DIVINYCELL – A closed cell medium to high density foam which has high compression strength, durability, and excellent fire resistance. Can be vacuum formed to compound shapes and can be bent using heat. Compatible with polyester, vinylester, and epoxy resins.

Foam Type	Density	Thickness	Sheet Size	Part No.	Price/Sheet
Divinycell PVC (Tan) Type H45	3 Lb/Ft^3	1/8”	32” x 48”	01-00158	---
		1/4”	32” x 48”	01-12300	---
		3/8”	32” x 48”	01-12400	---
		5/8”	24” x 47”	01-12500	---
		3/4”	15” x 26”	01-12600	---
		3/4”	32” x 48”	01-12700	---
		3/4”	32” x 24”	01-01197	---
		1”	32” x 48”	01-12800	---
		1-3/4”	32” x 48”	01-12900	---
		2”	48” x 96”	01-12920	---
		2”	24” x 48”	01-12910	---
		3”	48” x 96”	01-12940	---
		3”	24” x 48”	01-12930	---
Divinycell PVC (Tan) Type H100	6 Lb/Ft^3	1/4”	42.1” x 42.5”	01-01310	---
		1”	6” x 10”	01-13100	---
		1”	10” x 12”	01-13200	---

LAST-A-FOAM

CAUTION

DO NOT USE HOT WIRE!

LAST-A-FOAM – Rigid, Polyether Polyurethane foam with fine closed-cell structure, light cream-yellow color. LAST-A-FOAM® is wonderfully versatile for sandwich-core applications. It cuts and shapes easily with common woodworking tools, and bonds to itself and other materials with most epoxy, polyester, or urethane-type adhesives. LAST-A-FOAM® is unaffected by water, fuels and most solvents, and paint finishes are easily applied. It is frequently used in regular molds after the gel-coat and first two layers of glass are installed; the LAST-A-FOAM® is added and another layer of glass applied for a strong, light-weight sandwich.

Foam Type	Density	Thickness	Sheet Size	Part No.	Price/Sheet
Last-A-Foam Urethane/Polyester (Yellow) 275° F	4.5 Lb/Cu. Ft.	10mm	24” x 96”	01-13400	---
		1/4”	24” x 48”	01-13550	---
		1/4”	24” x 96”	01-13500	---
		3/8”	24” x 96”	01-13600	---
		1/2”	24” x 96”	01-13700	---
		3/4”	24” x 96”	01-14000	---
		3/4”	24” x 48”	01-01195	---
	6Lb/Cu. Ft.	1/4”	24” x 48”	01-14100	---
		3/8”	24” x 48”	01-14200	---
		3/4”	24” x 48”	01-14250	---
		1”	24” x 48”	01-00648	---
	8 Lb/Cu. Ft.	1”	16” x 24”	01-01048	---
	18 Lb/Cu. Ft.	0.200”	12” x 48”	01-14400	---
		1/4”	12” x 48”	01-14500	---

VACUUM BAGGING SUPPLIES

CM

VACUUM BAGGING TECHNIQUES BOOK - P/N 01-14803 ..... **---/ea.**

VACUUM BAGGING FILM - #7400 film is a high grade nylon 6 film. It is transparent green in color and heat stabilized for long term, 350°F cures. Film is soft & pliable and ideal for high temperature composites, metalbond, and any function requiring heat & pressure.
54" Width ..... P/N 01-14805 ..... **---/Yd.**
60" Width ..... P/N 01-01603 ..... **---/Yd.**
72" Width ..... P/N 01-01604 ..... **---/Yd.**

4.5 OZ. BREATHER/BLEEDER PLY - 4 oz./sq. yd. (140 grams / sq. meter) non-woven polyester breather system used for even volatile evacuation from vacuum bags. It can be used at pressures up to 85 PSI (5.8 bars). Multi-directional conformability makes it a very efficient breather. This breather does not contain any binders which could seal the air flow. Width: 60". Sold per yard. ... P/N 01-14810..... **---/Lin.Yd.**

STRETCHLON VACUUM BAG FILM 60" - Modified urethane film with incredibly high elongation, Can be reused. .0015 x 60" x 200 ft (38μ x 1.52m x 62m) Maximum temperature use 250°F (122°C). 120" wide (3.04m). Perfect for compaction. Not affected by low humidity, always stays soft with no cracking. Can be heat seamed to custom shapes .
P/N 01-01080..... **---/Lin.Yd.**

10 OZ. BREATHER/BLEEDER PLY - #3100 is a 10 oz./sq. yd. nonwoven polyester breather system used for even volatile evacuation from vacuum bags. It can be used at pressures up to 200 PSI (13.8 bars). Multi-directional conformability makes it a very efficient breather. This breather does not contain any binders which could cause seal-off of air flow. Width: 60"..... P/N 01-14815..... **---/Lin.Yd.**

2 OZ. NYLON RELEASE PLY - #5201 SRB is a smooth nylon fabric which has been scoured and heat set so that it is contaminate free and will not shrink during the laminate cure cycle. It is then coated with a special release blend. The peel ply may be used for composite manufacturing and metal bonding, but is not recommended for use with resin systems containing phenolic. Thickness: .005". Color: Blue. Width 60".
P/N 01-14820 ..... **---/Lin.Yd.**

3 OZ. POLYESTER RELEASE PLY - #5252SRB is a medium coarse weave polyester peel ply that leaves a surface with a rougher texture. It has been scoured and heat set to eliminate shrinkage during use and then coated with a special release blend. It can be used on all composite and metal bonding systems and is not affected by resin systems containing phenolic. #5252 provides protection of the laminate surface between primary & secondary processing. Thickness: .006". Color: Blue. Width: 60". ..... P/N 01-14825..... **---/Lin.Yd.**

POROUS TEFLON COATED RELEASE FILM - #7025 is used where a medium weight porous release fabric is required on the surface of a part. During the cure of the assembly it will allow excess resin and all of the air and volatiles to pass into the bleed/breather ply (CFM Airflow 70). At completion of the cure the fabric will release cleanly from the assembly. Color: Brown. Width: 37.5". 10 yard min. order.
P/N 01-14835 ..... **---/Lin.Yd.**

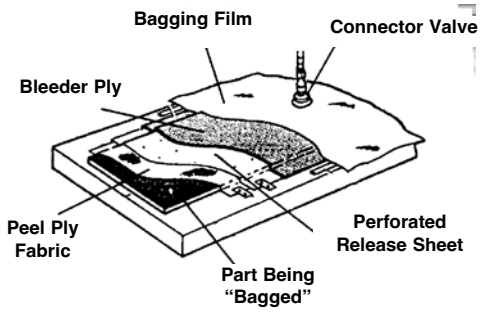
2410 RELEASE FILM - Release Film - 2410 material is the most economical release film available that can be used at temperatures over 350° F. The film has handling qualities similar to the lowest priced halohydrocarbon film. 54" wide, .002" thick.
Blue ..... P/N 01-01427..... **---**

NON-POROUS TEFLON COATED RELEASE FABRIC - #7039 is a light weight extra smooth TFE coated glass fabric. Will leave little or no fabric imprint on most composite lay-ups. It is used as a release fabric where there is no requirement for bleeding or breathing resin or volatiles from the composite lay-up. It is mainly used for protecting caul sheets from resin contamination and as a release media on tool surfaces. Thickness: .003". Color: Brown. Width: 37.5"..... P/N 01-14840..... **---/Lin.Yd.**

PERFORATED RELEASE SHEET E2760 - E 2760 is a red tinted, co-polymer, high elongation, low temperature release film with excellent conformability. An excellent release film for use on highly contoured parts for cure temperatures up to 250°F. E 2760 offers good release properties in the curing temperature range where release films are required. The colored film provides for easy identification and removal from parts.
P/N 01-01194..... **---**

FLASH TAPE - #6045-02 is a polyester backing film with a fully cured silicone adhesive. This tape is very tough and ideal for resin or adhesive flash removal. Color.: Blue. Thickness: .002". Roll size: 1" wide x 72 yds. ..... P/N 01-14845..... **---/roll**

400° F RESISTANT SEALANT TAPE - #4401 is a grey vacuum bag sealant tape that removes cleanly from the tool surface at the completion of the cure cycle. It can be used at any temperature up to 400° F. It can be used on any tool surface now in use and has been a standard of the industry for many years. It has high initial tack and is very easy to apply to prevent leaks between the bag and tool. It works well for composites, metalbond, or any function that requires temperature and/or pressure up to 400° F. Color: Grey. Size: 1/8" x 1/2" x 25 ft.
P/N 01-14850 ..... **---/roll**



VACUUM VALVE - TWO PIECE - #8112 is a two-piece vacuum valve which requires one quarter turn to lock in place. Service temperature to 500° F. This valve is an industry standard The base is anodized and is red in color. Inside Diameter: 1/4" standard. Threads: 1/4" NPT.
P/N 01-14855 ..... **---/ea.**

OVEN VACUUM HOSE - #8020 is a thick walled, flexible silicone hose. It is normally used for debulking and oven cures using vacuum only. Furnished in standard 10 foot lengths. Other lengths available on special order. Hose size: 1/4" ID..... P/N 01-14860 ..... **---/ea.**

HIGH TEMPERATURE QUICK DISCONNECT SET - #8432 is a two-piece quick disconnect both male and female for use to 500° F at pressures up to 200 PSI (13.8 bars). Sold as a set of male & female components.
P/N 01-14865 ..... **---/set**

SHRINK TAPE - #9010 is an oriented polyester film designed to shrink as the laminate approaches cure temperature. The applied pressure is maintained during cure. It is used extensively where the shape of the assembly makes conventional bagging too labor-intensive. If excess resin needs to be released during cure, perforating the shrink tape after the assembly has been wrapped with a porcupine roller will reduce the resin content as well as permitting air and volatiles to escape. Thickness: .002". Width: 1-1/4", Roll length: 100 yds .... P/N 01-14870 ..... **---/roll**

GREENFLOW 75 - Greenflow 75 is designed to efficiently distribute resin with little waste due to the low profile, tight construction. Greenflow 75 can be used with polyester vinlyester and epoxy resins. Color: Green. Thickness: .035± .003 (.89mm±75μm). Melt Point (Method:DSC): 230°F (161°C). Configuration of Net: Rhombic..... P/N 01-01081 .... **---/Lin. Yd.**

SEALANT TAPE ROLLER - #9050 is a plastic roller designed to assist in applying sealant tape between the bag and the tool. It assists the operator in applying maximum pressure to make a leak-proof, smooth seal. The unit is lightweight and easy to use, and the plastic roller helps prevent damage to the film. Roller width: 1-3/16". Roller Diameter: 1-3/8".
P/N 01-14875 ..... **---/ea.**

PORCUPINE ROLLER - #9060 is a steel roller with a wood handle designed to perforate films to allow air, volatiles, and some resin to flow through the film. The amount of resin flow can be controlled by the depth of the pin penetration. Also useful on foam to give the bonding adhesive a better grip on the foam surface..... P/N 01-14880 ..... **---/ea.**

VACUUM GAUGE - a dial faced vacuum gauge capable of displaying vacuum from 0" to 30" Hg. It is 2" in diameter and can be used on the vacuum pump line, holding tank, or with a vacuum valve to determine vacuum in specific areas of a bagged assembly. Fitting size: 1/4" NPT.
P/N 01-14885 ..... **---/ea.**

STANDARD MODEL VACUUM PUMP/AIR COMPRESSOR - Thomas Oil-less WOB-L Piston Compressor / Vacuum Pump
P/N 01-01569 ..... **---**

VACUUM PUMP KIT - Includes vacuum pump, gauge, valve, fittings, and hose..... P/N 01-00164 ..... **---**

HIGH VOLUME AIR COMPRESSOR / VACUUM PUMP - Unit features rugged flexible piston cup and shaded-pole motor with high-torque start windings. Corrosion-resistant sandwich valve stops foreign particles from lodging on valve seats. Aluminum cylinder heads and pistons.
P/N 01-01570 ..... **---**

VACUUM RELIEF VALVE ..... P/N 52763 ..... **---**

BAGGING SUPPLIES STARTER KIT - Includes 10 yards of Vacuum Bagging Film #7400, 10 yards of 4.5 oz. Breather Bleeder #3, 1 roll 400° resistant Sealant Tape (25 ft/roll), 10 yards Dacron Fabric 1.8 oz. x 60", & 10 yards 60" x .001 Perforated Release Sheet.
P/N 01-14894 ..... **---**

ECONOMY VACUUM GENERATOR - a low cost and reliable method of generating a vacuum for those who already own an air compressor. The generator will create 27" of Hg vacuum/pressure when coupled in-line to an air compressor capable of producing 2.2 cfm. Larger air compressors are advisable for continuous use applications. Suitable for parts up to 80 ft^2. ..... P/N 12-11148 ..... **---**

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ECONOMICAL MULTI-PURPOSE SEALANT TAPE

AT-200Y is an economical multi-purpose sealant tape with high tack. It removes easily from metal or composite tools. Suitable for cure applications up to 400°F (204°C).

Specifications: • Color: Yellow • Base material: Synthetic rubber • Maximum use temperature: 400°F (204°C) • Shelf life: 12 months from date of manufacture • Storage conditions: Tape must be stored flat in original packaging at 72°F (22°C) / Do not refrigerate • **Dimensions**: 1/8 inch x 1/2 inch x 25 feet (3 mm x 12 mm x 7.5 m)

Benefits: • Economical vacuum tape reduces the cost of vacuum bagging. • Multi-purpose tape can be used on metal and composite tooling. • Easy clean up reduces cost of tool cleaning.

P/N 01-01602 ..... ---

1000-A SUPER CLEAN PLASTIC CLEANER (19 FL. OZ.)

Before doing any sort of plastic repair, use Super Clean plastic cleaner to maximize the durability of your repair. Super Clean removes mold release agents, wax, grease, silicone, tar, bugs, sealers and other contaminants from painted or unpainted plastic or metal surfaces. It's simple to use, just spray it on and wipe it off with a clean, lint-free cloth.

P/N 01-00533 ..... ---

2020-T SMC HARD-SET FILLER (2-5 OZ. TUBES)

SMC Hard-set Filler is a 2-part epoxy system that is very rigid when fully cured. It works on ABS, SMC, fiberglass, polycarbonate and on any other repair application that requires a rigid, high impact resistant repair material. It has a working time of 3 to 4 minutes and is ready to sand in 15 minutes.

P/N 01-00534..... ---

2045W STAINLESS STEEL REINFORCING MESH (50 SQ.IN.-5"X10")

Reinforcing Wire Mesh is designed to be used to reinforce any repair made with an airless plastic welder. We recommend that the mesh be used to when a tear goes to the edge of the plastic. Since it is stainless steel, it is 5 times stronger than aluminum wire screen and is virtually impervious to oxidation under normal conditions. You can also use the mesh to fabricate tabs, fill holes and provide reinforcement in any meltable plastic.

P/N 01-00536 ..... ---

POLY FILLER

POLY FILLER HT is a two component polyester filler paste system that provides the user both unique ease of handling and high performance characteristics when cured. POLY FILLER HT is formulated to provide a smooth creamy handling consistency and a dry tack-free surface when cured. A significant advantage of POLY FILLER HT over other materials of this type is its very low cured shrinkage. This feature allows faster application and repairs than with other filler pastes, which usually must be applied in several layers because of their high shrink age rate! The creamy texture of POLY FILLER HT allows for easier applying and spreading. POLY FILLER HT can be troweled to a feather edge without rolling or skipping. It can be used to fill tiny pin holes with out lifting. The dry, tack-free nature of the cured POLY FILLER HT paste provides for easier working with tools and prevents sand paper from becoming gummy.

Once applied and cured, POLY FILLER HT will bond quite well to most surfaces such as aluminum, copper, fiber glass, epoxy, steel, plaster, graphite and kevlar laminates. It will also accept all types of enamel, epoxy, lacquer and paint stains as a surface finish.

POLY FILLER HT utilizes an excel lent high temperature resin base, and therefore the cured paste can be subjected to service temperatures in excess of 400ºF.

Black Quart.....P/N 09-04569 ..... ---
Black Gallon .....P/N 09-04571 ..... ---
Gray Quart.....P/N 09-04570 ..... ---
Gray Gallon .....P/N 09-04572 ..... ---

PLASTIFIX REPAIR KITS

Plastifix repairs virtually any rigid plastic and works exceptionally well on ABS. Repair cracks, fill gaps, reinforce repairs, rebuild broken tabs, fix stripped threads, and more. PlastiFix's most unique feature is the FlexMold molding bar which allows you to create a mold and cast missing pieces. No other plastic repair is more versatile. The 30 gram kits are enough to complete approximately 24"+ of cracked plastic repair. The large kits will do about 24 feet.

Kit Includes: 253X Plastifix Powder 30G, 2520 Plastifix Liquid 50ML, 2542 Dropper Bottle Assembly, 2543 Power Application Cup, 2548 Transfer Pipette, 2550 Applicator Needle Qty: 2, 2560 Flexmold Molding Bar 10CC.

2501-PlastiFix Repair Kit (30g, white).....P/N 01-00542 ..... ---
2503-PlastiFix Repair Kit (30g, black).....P/N 01-00543 ..... ---
2504-PlastiFix Repair Kit (30g, clear) .....P/N 01-00544 ..... ---

2502-**Large Kit includes:** 2531-L Plastifix Power 150G (WHITE), 2532-L Plastifix Power 150G (BLACK), 2520 Plastifix Liquid 250ML, 2542 Dropper Bottle Assembly Qty. 2, 2543 Power Application Cup Qty. 2 2548 Large Transfer Pipette, 2550 Applicator Needle Qty 4

P/N 01-00545 ..... ---

WEST SYSTEM 406 SILICA FILLER

406 Colloidal Silica is a thickening additive used to control the viscosity of West System Epoxy and prevent epoxy runoff in vertical and overhead joints. 406 is a very strong filler that creates a smooth mixture, ideal for general bonding and filleting. It is also the most versatile filler.

Often used in combination with other fillers, it can be used to improve strength, abrasion resistance, and consistency of fairing compounds, resulting in a tougher, smoother surface. Off-white.

5.5 ounces.....P/N 406-7 ..... ---

WEST SYSTEMS FIBERGLASS REPAIR KITS

Here is everything you need to complete small repairs around the boat, shop or home.

Contains:

• #101 Handy Repair Pack - Convenient kit contains enough material to complete one repair.
• Two 16g. packets of #105 Resin
• Two 3.2g. packets of #205 Hardener
• 3.5g. High Density Filler
• 1 application brush
• Ground Shipping Only
• This kit is large enough to tackle a multitude of repair jobs.

P/N 01-08760 ..... ---

2303-3 INSTA-WELD ACTIVATOR (2 FL. OZ. WITH SPRAYER)

This quick spray Activator causes instant curing of all Insta-Weld adhesives and other cyanoacrylate adhesives. The activator may be used before or after the adhesive is applied. This 2 fl. oz. (59 ml) plastic bottle comes with a sprayer.....P/N 01-00541 ..... ---

2043-U UNI-CLOTH FIBERGLASS CLOTH (9 SQ.FT.)

Uni-Cloth is a quality fiberglass cloth that is well suited for reinforcing plastic repairs as well as any other application requiring fiberglass reinforcement.

P/N 01-00535 ..... ---

FILLERS

GLASS BUBBLES

These bubbles are actually hollow glass spheres. Because the high-quality glass is very crush resistant, the foam is much stronger, stiffer and water-resistant than any foam made by chemical foaming. These foams displace 4-6 times their weight in most resins and improve the handling characteristics of the base resin. They have a low bulk density and are nontoxic. Mix resin and hardener as directed, then fold in the glass bubbles. Upon cure, a strong, low-density product results which is easy to sand and file. May be shaped to form compound angles and curves. The term "micro" was applied to the mixture of microspheres and epoxy early in the development of composite structures. Although microspheres have been replaced by glass bubbles the word "micro" is still commonly used to reference the mixture. "Micro' is used to fill voids and low areas, to glue foam blocks together and as a bond between foams and glass cloth. Micro is used in three consistencies - (1) a "slurry" which is a one-to-one by volume mix of epoxy and glass bubbles, (2) "wet micro" which is about two to four parts glass bubbles by volume to one part epoxy, and (3) "dry micro" which is a mix of epoxy with enough glass bubbles to obtain a paste which will not sag or run (about five parts to one by volume). In all instances glass bubbles are added to completely mixed epoxy resin and hardener. Wet micro is used to join foam blocks and is much thicker than slurry (it has the consistency of honey) but can be brushed. Dry micro is used to fill low spots and voids and is mixed so that it is a dry paste and will not sag. Apply with a putty knife. Never use micro between glass layers.

CAUTION - When mixing epoxy and glass bubbles, wear a dust mask and keep your face away from the balloons that may float up into the air. Although glass balloons are inert, they can lodge in your eyes or in your lungs and cause problems. Handle with care.

One Pound Bag (Approx. 1 Gal.) .....P/N 01-14600 ..... ---

Five Pound Bag (Approx. 5 Gal.)..... P/N 01-14700.....---

DISPOSABLE ICING BAGS

These 12" disposable icing bags are ideal for applying beads of any size of micro epoxy or flox epoxy to all surfaces. Great for close-outs and are real time savers. Simply fill, cut end to desired bead size and squeeze. Never breaks down from epoxy. Sold in packs of 100 icing bags.

Pack of 100 bags .....P/N 01-14710 ..... ---

CAB-O-SIL

Cab-O-Sil is a fumed lightweight silica thickener used to reduce the flow of epoxies on vertical surfaces, as well as filling pinholes with its smooth texture.

1 Gallon bag .....P/N 01-04711 ..... ---

FLOCKED COTTON FIBER

A structural resin filler. The mixture of cotton fiber and epoxy is referred to as "flox". The mixture is used in structural joints and in areas where a very hard, durable buildup is required. Flox is mixed in much the same way as dry micro but only about two parts flock to one part epoxy is required. Mix in just enough flock to make the mixture stand up. If "wet flox" is called out, mix it so it will sag or run. Flox is often used to reinforce a sharp corner. Paint a light coat of pure epoxy inside the corner, trowel flox in to make a triangular support. The flox corner is done just before one glass surface is applied for a wet bond to one surface.

1 Lb. Bag .....P/N 01-14800 ..... ---

5 Lb. Bag .....P/N 01-14900 ..... ---

MILLED GLASS FIBERS

As the name implies, this material is made by milling fiberglass into a very thin consistency. This material is used in preparing a structural filler. This material is used in fillets that require structural integrity. Milled fiber fillers have higher strength than cotton flock but have fine particles of fiberglass that can penetrate the skin.

1 Lb. Bag .....P/N 01-14780 ..... ---

PELOUZE DYMO DIGITAL SCALE

Ultra-compact design for super portability. Features an LCD screen with easy-to-read digital readout. Convenient "hold" feature locks weight display for ten seconds after item is removed. Digital postal rates. Rates update with Internet download. Operates on: 3 AAA Batteries (included). P/N 12-01580 ..... ---

HI BUILD POLYESTER SANDING PRIMERS

• Quick Build Primer • Quickly fills uneven surfaces, and major imperfections • Easy sanding prep for surface primer, top coats • Low VOC product • Perfect Primer for prestec topcoats or any other surface coatings desired • Fairly Hi-Build to 120mils

Color	Size	Part No.	Price	Size	Part No.	Price
Gray	Quart	09-02162	---	Gallon	09-02163	---
Black	Quart	09-02164	---	Gallon	09-02165	---
White	Quart	09-02166	---	Gallon	09-02167	---

Requires Catalyst P/N 01-01119.

DYNALITE

A formulation of polyester resin, talcs and Microspheres used as a lightweight filler on metal and fiberglass. Works easily, sands faster. Only 7.5 lbs. per Gallon as compared to 12 lbs. per Gallon for conventional fillers.

494 Gallon .....P/N 01-00368 ..... ---

FIX-IT

A universal repair compound. It is excellent for rebuilding or fabricating parts and as an all purpose adhesive for wood, metals, ceramic, glass, and many plastics. Fix-it can be tapped or drilled, sanded, filed or painted. Patch holes and cracks and seals leaks. Sets rock hard overnight. Fix-It Metal is the same as standard Fix-It except it is loaded with aluminum metal to match the strength, weight, and use for each project. Fix-It is non-toxic, non-hazardous, and impervious to fuels and liquids.

Fit-It 1/4 Lb kit.....P/N 01-14770 ..... ---

Fit-It 1 Lb kit.....P/N 01-14775 ..... ---

Fit-It Metal 1/4 Lb kit..P/N 01-14790 ..... ---

Fit-It Metal 1 Lb kit.....P/N 01-14795 ..... ---

3M™ #77 SPRAY ADHESIVE

This aerosol spray adhesive works well to laminate styrofoam sheets together. Laminations cut well with a hot wire.

Net wt. 16.75 oz.

24 fl. oz. Aerosol Spray Can

P/N 09-28330.....---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SUPERFIL BY POLY-FIBER

An ultra-light, corrosion-inhibiting filler for aircraft, marine and automotive use. Adheres to composites, bare aluminum, steel and bare or varnished wood. Easy to mix & apply: mix 2 parts A:1 part B by weight: apply with squeegee; let dry overnight. Excellent sanding qualities. More consistent than hand-mixed micros. Wt: less than 5 lbs/gal. **Hazardous**.

1 Quart Kit (20oz. Resin/12oz Hdnr).....P/N 09-28250 ..... ---
3 Gal Kit (2 gal.Resin/1 gal. Hdnr) .....P/N 09-28260 ..... ---

TR MOLD RELEASE SEALER & WAXES

On new or reconditioned tooling, suggest use of the sealer glaze TR-301 prior to waxing for added release, gloss and mold life. Apply wax with sponge applicator in thin even circular motion to the mold surface. Allow to haze dry (approx. 5-10 min) and polish wipe to gloss finish. For new or reconditioned molds apply a minimum of 6 coats of paste wax, waiting approx. 30-60 minutes between applications for the wax to harden after the polish wipe.

Model	Description	Part No.	Price
TR102	A firm carnauba based mold release paste wax blended with other synthetic waxes for use in various thermo-set composite molding applications.	01-01598	---
TR104	A firm mold release paste wax based on the highest quality refined Carnauba Wax blended with other high temperature synthetic ingredients and petroleum distillates.	01-01597	---
TR-103	A high-gloss seal for negative forms with a cleaning, polishing and sealing effect. It closes the pores of the mold and thus creates the best conditions for optimum molding quality.	01-01599	---

RUST DEFENDER SANDABLE FILLER

A one step finishing material from bare metal, body filler plastic, wood, aluminum, or fiberglass to a surface ready to accept any type of paint without concern about penetration of solvents or moisture. Provides fast build-up and fill, is non-shrinking, easy sanding, wet sandable and waterproof, and self-etching. Can be sprayed or brushed on and can be built up like Bondo or Featherfill. Ready to sand in one hour, and it does not clog up your sandpaper. Pot life and cure time are about one hour at 70 degrees Fahrenheit. Versatile polyester filler. Gallon.....P/N 01-00559 ..... ---

FILL BOND PUTTY

Fill Bond aerospace putty from Sherwin-Williams Aerospace Coatings has been created specifically for aerospace use. Designed to fill rivets, seams and small spot-repair areas on the exterior of aircraft fuselage and wings, this high-build body filler is now available in a convenient epoxy version. Fill Bond putty is extremely flexible, offers direct-to-metal adhesion (with properly pretreated aluminum), provides excellent spread ability and offers a long, workable pot life to give users the amount of time to apply material on a variety of aircraft surfaces, including aluminum and composites. The epoxy putty dries quickly for a fast sand - in just two to six hours. A specially-designed Fill Bond dispensing gun enables users to apply putty exactly where it is needed without requiring additional tools. There's minimal waste following application. Users apply only as much product as they need and then can put the cap back on the convenient cartridge containers for later user, saving on material and disposal costs.

Fill Bond Cartridge 750ML.....P/N 01-01124 ..... ---
Fill Bond Cartridge 375ML.....P/N 01-01125 ..... ---
Manual Dispensing Gun 370ML .....P/N 01-01126 ..... ---
Manual Dispensing Gun 750ML .....P/N 01-01127 ..... ---
Static Mixer Element.....P/N 01-01128 ..... ---

UV SMOOTH PRIME FILLER/PRIMER

The pinhole killer! Waterborne polyurethane primer plus UV blocker applied with a foam roller or spray gun. Fills pinholes in layups or molded parts. White color. Once UV Smooth Prime has dried for 7 days, spray white two-part catalyzed Epoxy Primer to seal the surface and provide moisture and chemical resistance prior to spraying top coat paint. Dry sand for a smooth, pinhole-free surface. Dries in 20 minutes, sand in two hours. Clean up with water. Use Poly-Fiber Gun Cleaner to clean your spray gun after each day's spraying. NON-HAZMAT. Three Gallons required for most composite aircraft. **CROSSLINKING NO LONGER REQUIRED.**

Quart.....P/N 09-28280 ..... ---
Gallon .....P/N 09-28290 ..... ---

HYSOL EPOXY PATCH KITS

EPL0151 is a clear two part resin / hardener which is ideal for bonding fiberglass, PVC, and graphite. Cure time is 6-8 hours. EPK1C is a white 2-part resin / hardener epoxy system which is used to bond aluminum and ceramics.

EPK0151 Kit, 3.35 oz. (fiberglass) .....P/N 01-15875 ..... ---
EPK1C Kit 4.0 oz kit (aluminum).....P/N 01-15880 ..... ---

LITE WEIGHT FILLER

Lite Weight autobody filler is a very versatile filler which is excellent for holding jig blocks in place during composite construction. Applies evenly and allows sanding within minutes. Cures well even in humid climates. Creme hardener is included.

Quart.....P/N 01-00243 ..... ---
Gallon .....P/N 01-00244 ..... ---

WEST SYSTEM 403 MICROFIBERS ADHESIVE FILLER

403 Microfibers Adhesive Fillers, a fine fiber blend, is used as a thickening additive with WEST SYSTEM Epoxy to create a multi-purpose adhesive, especially for bonding wood. Epoxy thickened with microfibers has good gap-filling qualities while retaining excellent wetting/penetrating capability. Off-white. 20 ounces. .....P/N 01-01650 ..... ---

WEST SYSTEM 404 HI DENSITY FILLER

404 High-Density Filler is a powdered thickening additive for WEST SYSTEM Epoxy. Developed for maximum physical properties in hardware bonding where high-cyclic loads are anticipated. It can also be used for filleting and gap filling and where maximum strength is necessary. Off-white. 15.2 ounces.

15.2 Oz .....P/N 01-01687 ..... ---

WEST SYSTEM 410 MICROLIGHT

An excellent filler which provides easy workability for a variety of applications. Easy to sand and cures to a neutral tan color.

1.7 Oz .....P/N 01-08780 ..... ---
4.3 Oz. .....P/N 01-08785 ..... ---

LIQUID "X-30" FOAM
(TWO-COMPONENT POLYURETHANE FOAM)

This system consists of two components - "X-30" Resin and "X-30" Catalyst. When the resin and catalyst are mixed in equal volumes they expand into a rigid closed-cell foam of 2 pound density. Thorough mixing of the two components is essential. "X-30" Foam expands approximately 40 times its liquid volume. Small-batch mixes are recommended. Cured foams can be easily trimmed, cut and shaped with common woodworking tools. Use toluene or MEK for cleanup. "X-30" Foam contains a highly reactive agent and is classified as a toxic material. It is combustible, a strong skin sensitizer and eye irritant. Avoid contact with the skin. Use rubber gloves when handling. **Used for**: Flotation, thermal and acoustical insulation reinforcement and miscellaneous void filling. Most small pleasure boats can be made "sink-proof" with approximately two Gallons of "X-30". Data sheet available. "X-30" Foam contains a volatile fluorocarbon and should be stored at 70°F. or lower. "X-30" is used on the Osprey II bottom hull, canopy, nose cone, etc., requiring about four Gallons of material (2 Gallons of each). Shelf life at least 6 months. Users have reported "more than 2 years shelf life".

Kit Size	Approx. Foamed Vol. (Cu.Ft.)	Weight Lbs.	Part No.	Price/ Kit
1 Quart Kit (1 Pt. ea component)	1-1/4	3	01-08800	---
2 Quart Kit (1 Qt. ea component)	2-1/2	6	01-08900	---
2 Gallon Kit (1 Gal. ea component)	10	22	01-09000	---
10 Gallon Kit (5 Gal. ea component)	50	110	01-09100	---

X-30 is the original polyurethane foam. Do not accept substitutes!

MOLD RELEASE AGENTS

POL-EASE® 2300 MOLD RELEASE

Provides superior release with minimum buildup on mold surfaces for casting urethane elastomers, epoxy, polyester, and rubber compounds. Molded parts are easily cleaned for finishing operations. It is effective on aluminum, steel, epoxy, polyester, and elastomeric molds; it does not distort intricate patterns. .....P/N 01-31749 ..... ---

MAXIMUM MOLD RELEASE WAX

Meguiar's® Mold Release Wax is a blend of imported waxes specially formulated to provide a maximum number of releases per application.
P/N 01-09415.....---

MOLD RELEASE WAX

High-temperature paste wax. 14 oz.
P/N 01-00177 ..... ---

FIBERGLASS MOLD RELEASE

Plastilease 512B, a film-forming, water soluble parting agent, assures clean release of fiberglass parts from molds. For application by brush or spray.
P/N 01-30600..... **---/Qt.**

LPS MRX SILICONE MOLD RELEASE

Excellent for releasing molded parts in high temperature and extreme pressure environments. MRX Silicone Spray Mold Release provides maximum releases and superior value for the end-user. This non-staining, non-corrosive mold release is heat stable up to 500°F. It is a nonflammable product and contains no class I or II ozone depleting chemicals. Like all LPS MR-series mold releases, MRX Silicone Spray Mold Release doesn't use Methylene Chloride.
16 oz. aerosol can .....P/N 09-00271 ..... ---

PVA RELEASE FILM

PVA (Polyvinyl Alcohol) should be used with #1016 Wax to aid in the release of parts form a mold. It should be applied in 3 thin mist coats over nonporous, waxed mold surfaces. After the final wax coat has dried, begin by spraying a light tack coat of PVA. Typically, within 5 mins. the final heavier coats can be added. The PVA dries to form a smooth, glassy film. After part release, the residual film can be removed with water. We recommend using an inexpensive automotive siphon spray gun and 70-90 PSI for application, although airbrushes will work on hobby size projects. PVA can also be sprayed over any polyester repair to provide an airless tack-free cure. For use with epoxies ..P/N 01-14813A.....**---/qt**

HI GLOSS CLEAR POLYESTER TOP COAT

Features: • Super Clear - Glass like appearance • Scratch Resistant • Buffs to a Super Hi-Gloss Finish • Refinishes to Original Hi-Gloss • Practically a Walk-A-Way Gloss Finish **Product Applications:** • Exotic wood coating • Gel coat additive for air cure application • Musical instrument wood coating • Top coat over clear primers • Top coat over pigmented colors for clear depth • Automotive interior composite parts clear coating • Architectural wood crafts
Quart .....P/N 09-02168 ..... ---
Gallon.....P/N 09-02169 ..... ---

Requires Catalyst P/N 01-01119.

DISPOSABLE RESPIRATOR REPLACEMENT PARTS

Dusts, Mists, & Fumes Pre-Filter
P/N 01-00382 ..... ---

GROOVED LAMINATING ROLLERS

These are the standard laminated rollers for wetting out woven roving and mat with polyester resin. Use with epoxy resin for applying tape into corners and for spreading thickened epoxy over large areas for gluing and fairing.
1"x 3".....P/N 01-01054 ..... ---
1"x 6".....P/N 01-00396 ..... ---
1"x 9".....P/N 01-00383 ..... ---
2"x 3".....P/N 01-00384 ..... ---
2"x 6".....P/N 01-00385 ..... ---
2"x 9".....P/N 01-00386 ..... ---
1/4" Corner Roller .....P/N 01-00387 ..... ---
1/2" Corner Roller .....P/N 01-00388 ..... ---
1/2"x 3" Detail Roller .....P/N 01-00389 ..... ---
3/4"x 3" Detail Roller .....P/N 01-00390 ..... ---

EPOXY LAYUP ROLLERS

3" wide roller with stipple adhesive cover. Has excellent stippling action for working out air bubbles in layups and has no tendency to lift the cloth. Use on all major layups. Order frame and cover separately.
Roller Frame Only.....P/N 01-24902 ..... ---
Cover Only .....P/N 01-24903 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

COMPOSITE TOOLS

AIRCRAFT DESIGNER APPROVED TOOLS

The tools offered in this section have been selected by professional aircraft designers and builders as being either necessary or highly desirable for working with composite structures.

HOMEBUILDERS SPECIAL HOTWIRE KIT

An excellent new hot wire system consisting of a controller and transformer. Recommended by Rutan Aircraft Factory as a good system at a very economical price .

P/N 01-15600 ..... ---

SAFETY WIRE

Type 302 stainless steel safety wire, for hot wire cutter. This is superior to nichrome wire, which is brittle and breaks easily. Specify .032" or .041" diameter wire.

1 Lb. SpoolP/N 05-02687 ..... ---

INCONEL 600 HOT WIRE

Does not stretch. Excellent for hotwiring polystyrene foam.

.032" Dia. Wire

P/N 01-15805 .....--- ft.

.041" Dis. Wire

P/N 01-15810 .....--- ft.

MUSIC WIRE

Music wire is high carbon steel and although very high in tensile strength, must be capable of wrapping around itself without showing signs of cracking. 156 ft. of .049" dia. wire per lb., 46 ft. of .090" dia. wire, per lb. 22 Ga.

Price is per pound.

.049" Dia. (1 lbs.)

P/N 03-49500 ..... ---

.090" Dia.(32Ga.,1lbs.)

P/N 03-49600 ..... ---

TYPE 302 STAINLESS SPRING WIRE

062" Dia. ...P/N 03-49610 .....--- ft.

SPATULAS

When you need to apply sealant or remove it, the spatula is perfect for use. Our team here at Crew Tool recommends using it on curved surfaces where liquids can be easily absorbed and lifted off with ease. Its flat edges allow for easy spreading of materials.

Description	Dimensions	PN	Price
#1 Double Ended Spatula - Red	L - 7", Thickness - 3/16", Wide Tip - 3/8", Short Tip 3/16"	12-06555	---
#2 Double Ended Spatula - Red	L - 7", Thickness - 3/16", Wide Tip - 3/16", Short Tip 9/32"	12-06556	---
Double Ended Orange Spatula Nylon GF	L - 7", Thickness - 3/16", Wide Tip - 1/8", Short Tip 9/32"	12-06557	---
#3 Double Ended Spatula - Red	L - 7", Thickness - 3/16", Wide Tip - 1/2", Short Tip 3/8"	12-06558	---
Spatula 3 Pack- #1 #2 And #3 Spatula - Red	Overall Length - 7"	12-06559	---
Spatula 3 Pack - #1 #2 And #3 Spatula - Blue	Overall Length - 7"	12-06560	---
9 Inchdouble Ended Scrape - Nylon Gf - T-Shaped Tip	Overal Length - 9"	12-06575	---
Long Double Ended Spatula	L - 9", Thickness - 3/16", Wide Tip - 9/16", Short Tip 9/32"	12-06576	---
Long Spatula Nylon GF-Orange	L - 9", Thickness - 3/16", Wide Tip - 9/16", Short Tip 9/32"	12-06577	---
Long Spatula - Glow In The Dark	L - 9", Thickness - 3/16", Wide Tip - 9/16", Short Tip 9/32"	12-06578	---

MICHAEL ENGINEERING EPOXY RATIO PUMPS

This highly recommended pump, aptly called "Sticky-Stuff Dispenser", will save about $50 in epoxy in building a VE type aircraft, plus time, mess, dermatitis, temper and risk of bad batches. Used by individual craftsmen and professionals alike, it is a practical engineering tool especially designed to eliminate the sticky, messy, costly hand proportioning of epoxy resins. It is well built and should last through the construction of dozens of aircraft. The Sticky-Stuff Dispenser assures accurate measurement of low-viscosity (under 3,500 centipoises) unfilled epoxy resin. The standard Model A dispenser pump delivers a ratio of 100 parts of resin to 44 parts of hardener.

Note: This pump is for a 2:1 ratio. 4:1 ratio is available, please request in special instructions at time of checkout.

Adjustable Ratio Pump.....P/N 01-16010 ..... ---
Rebuild Kit for 45:100 pump.....P/N 01-00504 ..... ---
Small round replacement container (qt) .....P/N 01-15920 ..... ---
Large square replacement container (gal) ..P/N 01-15910 ..... ---
Stainless Steel Check Valve
(Use with Jeffco epoxies) .....P/N 01-00258 ..... ---

COMPOSITE MATERIALS PRACTICE KIT

All designers highly recommend that builders who are considering a composite project purchase this practice kit. It contains the excellent 26 page 11" x 17" manual by Burt Rutan entitled MOLDLESS COMPOSITE SANDWICH HOMEBUILT/ AIRCRAFT CONSTRUCTION ($14.50) plus the assorted foams, epoxy, fiberglass, filler materials and supplies with which to work. Everything needed to practice the technique of composite building before venturing into a complete aircraft project.

Practice Kit with Manual.....P/N 01-15000 ..... ---
Practice Kit without Manual.....P/N 01-15100 ..... ---
International Practice Kit with Manual.....P/N 01-15050 ..... ---
Same as Practice kit with the manual, but excludes the epoxy for International shipping.

COMPOSITE TOOL KIT

This kit includes an assortment of many of the commonly required tools used in composite construction.

****Note: not all items shown in picture****

QTY.	PART NO.	DESCRIPTION
1	01-00397	Glass Shears
1 box	01-25800	500 Mixing Sticks
2 boxes	01-25700	12 oz. Mixing Cups
2 boxes	01-25710	16 oz. Mixing Cups
10	01-24899	3" Plastic Squeegee
10	09-21200	1" Disposable Brushes
10	09-21300	2" Disposable Brushes
1	12-01580	Electronic Scale
2 boxes	01-36550	Latex Gloves
1	GLR123D	1/2" x 3" Laminating Roller
1	GLR12C	1/2" Corner Roller
1	GLR26	2" x 6" Plastic Grooved Roller

P/N 01-00166 .....---

COMPOSITE TOOLS

STANLEY TAPE MEASURE

This 12 foot steel tape measure, with 1/2" blade, is graduated in tenths and hundredths of inches and also in fractions of inches (32nds). Very handy for all aircraft construction. A "must" for composite construction.
No. 33-272 .....P/N 33-272 ..... ---

STANLEY UTILITY KNIFE

Aluminum, die-cast in two sections - provides blade storage. Has handy hang hole. Furnished with No. 11-921 blade and blade guard.
No. 10-099 .....P/N 10-099 ..... ---

KNIFE BLADE

Heavy-duty pointed razor-type utility knife blade for No. 10-099 knife and most other makes of utility knives.
No. 11-921 (Pkg. of 5 Blades)
P/N 11-921 ..... ---

HOOK BLADE

For use with No. 10-099 knife and most other makes of utility knives to cut linoleum, roofing material, cartons, etc., without damage. The razor-sharp hooked ends cut to full thickness in one stroke.
No. 11-961Pkg. of 5 Blades
P/N 11-961 ..... ---

SINGLE-EDGE RAZOR BLADES

Used for trimming rough edges of laminates .....P/N 01-24904 ..... **---/ea.**

SPRING CLAMPS

Heavy-gauge steel clamps with vinyl grips and tips to prevent marring work. Jaws specially formed to hold flat or round objects. Two sizes available:
No. 3202-HT – Jaw Opening 2", Length 6"
P/N 12-03778 ..... ---

X-ACTO TOOLS

X-ACTO BLADE NO. 11

Classic fine point blade. A general purpose blade. Package of 5
P/N 01-16500 ..... ---

STRAIGHT EDGE

A 6-ft. long kiln-dried spruce board, 7/8" to 1" thick and 3" to 4" wide, used for checking the straightness of flying surfaces during composite construction ....P/N 01-25900 .....

6" STEEL RULER

Flexible stainless steel rule graduated in 10ths and 100ths on one side and in quick-reading 32nds and 64ths on the other side.
6 inch.....P/N 616 ..... ---
12 inch.....P/N 12-02062 ..... ---

FELT TIP MARKERS

Used for marking locations on fiberglass throughout construction.
P/N 01-26000 ..... ---

12" LONG DRILL BITS

For use with standard electric drill for hard-to-reach jobs.
3/32" (.094" Dia.) .....P/N 12-05200 ..... ---
1/8" (.125" Dia) .....P/N 12-05300 ..... ---
3/16" (.188" Dia) .....P/N 12-05400 ..... ---
#10 (.1935" Dia.) .....P/N 12-05500 ..... ---
1/4" Dia. .....P/N 12-05600 ..... ---

RUBBER SEALANT

No. 732 RTV general-purpose, clear, one-part silicone rubber. Cures to a firm silicone rubber in 24 hours at room temperature.
4.7 Oz. Tube .....P/N 09-27800 ..... ---

JIFFY MIXER

This is a very effective 2-1/2" diameter stainless steel mixer on a 15" shaft. Attach to an air drill for fast, efficient mixing of larger batches. It will not dig into or gouge the sides or bottom of your mixing container.
P/N 01-00395 ..... ---

CALRAD VARIABLE VOLTAGE CONTROL

A fine quality control to supply the electrical current for hot-wire cutting of styrofoam and PVC foam. One unit can serve to build many aircraft. Input 115 volts AC Output variable from 0 to 130 volts AC at 5 amps Caution - fuse should be inserted in the secondary to protect the control in the event of a short circuit.
Input: 117V AC 60Hz 3-Prong AC cord. Output: 0-130V AC Adj. 60Hz; volt meter, power jack. Fuse Protection AGC: 5 Amp. Max: 500VA
P/N 01-01294 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ROTARY ("PIZZA") CUTTER

Makes clean cuts on fiberglass fabrics and other materials. The disc blade is made of high quality tungsten steel which is very sharp. Used by high-volume composite shops. Use with wooden backing board and handle knife with caution.

RTY-2 Cutter ..... P/N 01-00299 ..... ---
Replacement Blade ..... P/N 01-00300 ..... ---
Blades (5 Pack) ..... P/N 01-00301 ..... ---
Replacement Pinking Blade ..... P/N 12-01709 ..... ---

90 DEGREE ALUMINUM ROTARY CUTTER FOR COMPOSITE WORK

This cutter handle is all aluminum with special stainless hardware for easy assembly when changing out rotary cutter blade. Will not melt when exposed to acetone, methylene chloride, and other chemicals. Good for wet layups. To clean, just drop in small container of acetone.

P/N 01-01047 ..... ---

PAINT BRUSHES

Natural, undyed bristle brushes with smooth, unpainted wooden handles. Unaffected by paints, dopes, resins, thinners or solvents.

1/2" Wide Brush..... P/N 09-21100 ..... ---
1" Wide Brush..... P/N 09-21200 ..... ---
2" Wide Brush..... P/N 09-21300 ..... ---
2 1/2" Wide Brush ..... P/N 09-38825 ..... ---
3" Wide Brush..... P/N 09-38803 ..... ---
4" Wide Brush..... P/N 09-38804 ..... ---

RUBBER SQUEEGEE

Developed especially for working with epoxies, this 6", or 36" wide hard rubber squeegee is superior to the plastic types. Can be easily cleaned & reused many times.

6" Squeegee ..... P/N 01-24901 ..... --- **ea**
36" Squeegee ..... P/N 01-00012 ..... ---**ea**

NOTCHED SPREADER

This plastic spreader is excellent for spreading epoxy at a steady rate to provide an even surface. Measures 4" x 4" and is notched on three sides in increments of 1/8", 3/16", 1/4".

P/N 01-24909 ..... --- **ea**

DISPENSER FOR MEKP CATALYST

Perfect to measure and pour catalyst. The bottle will hold 16 oz. of catalyst and dispenses liquid safely and accurately from 2.5 to 35 cc. Measurements are instantly repeatable.

P/N 01-08503 ..... ---

POST CURE KIT

This kit consists of one post cure thermometer (P/N 01-00394) and 1 regulating thermostat (P/N 08-12148) that allows control of electrical devices for heating. Snap Disc Fan Control 3/4 inch SPST Flanged Airstream Mount, Open On Rise, 180°F Cut-Out Temperature, 40°F Differential. Therm-O-Disc Style 60T11, Type 610013

P/N 01-00393 ..... ---

GRADUATED TAPER-TIP APPLICATOR

This graduated 2 oz. syringe is ideal for measuring and dispensing precise amounts of resins and other liquids.

Note: The ink used for the graduation lines are not solvent resistant. They will rub off if contacted with a solvent.

Without Cap..... P/N 01-25635 ..... ---

DISPENSER BOTTLE

Polyethylene bottle with Yorker (applicator) cap.

4 Oz. Bottle..... P/N 01-24905 ..... ---
16 Oz. (1 Pint) Bottle.. P/N 01-24906 ..... ---

MIL GAUGES

These color-coded mil gauges are solid anodized aluminum for long life and come in four sizes for a variety of FRP applications. Machined to close tolerances (0.0001") for accuracy and available in mils (inches) and microns (metric).

3-18 mils..... P/N 01-00411 ..... ---
10-35 mils..... P/N 01-00412 ..... ---
40-65 mils..... P/N 01-00413 ..... ---

MULTI-MEASURE PLASTIC CONTAINERS

Use again and again for liquid ingredient accuracy. A must-have item when mixing resins. Seal the liquid in the container with the matching sized plastic lid.

1 Qt. mix cup ..... P/N 01-00915 ..... ---
1 Qt. lid ..... P/N 01-00926 ..... ---
2.5 Qt. mixing cup ..... P/N 01-00330 ..... ---
2.5 Qt. lid ..... P/N 01-00331 ..... ---

EPOXY MIXING CUPS

Unwaxed, flat bottom paper cups in three convenient sizes for small mixes.

8 Oz..... (50 Cups) ..... P/N 01-01640 ..... ---
12 Oz.... (50 Cups) ..... P/N 01-01641 ..... ---
16 Oz.... (50 Cups) ..... P/N 01-01642 ..... ---

MIXING STICKS

These mixing sticks are medical tongue depressors which work well for mixing small batches of epoxy. Size: 3/4" x 6".

Box of 500 ..... P/N 01-25800 ..... ---

TAPERED OFFSET SPATULA

This tapered spatula is stainless steel with wood handle. Ideal for making 3/8" radii on bulkheads, ribs, or anywhere a uniform radius is required.

P/N 01-24915 ..... --- **ea.**

SYSTEM 3 MIXING STICKS

Wood sticks for mixing in cups or tubs.
6-Inch.
Pack of 30 ..... P/N 02-00251 ..... ---

COMPOSITE TOOLS

DREMEL TOOLS

MODEL 100 MOTOTOOL

The Dremel 100 Series rotary tool offers single speed convenience for full-speed applications like routing, cutting, drilling and sanding applications. Its single speed setting is perfect for all-the-time high speed use. Ideal when one speed is all you need or for shaping, hollowing, grooving, slotting, inlaying and making tapered holes in soft metals, plastics and woods especially on curved surfaces. Constant Speed: 35,000 RPM. Cool-running ball bearing construction. Amperage: 1.15

P/N 01-18600 .....---

DREMEL TWO SPEED ROTARY TOOL KIT

Multipurpose Cutting Guide attachment. Ideal for multiple applications on a variety of materials and includes 21 genuine Dremel accessories. Model Number: 200-1/21. Amperage: 1.15. Cord length: 6. Speed: 15,000 or 35,000 RPM. Voltage: 120 AC, 50-60 Hz.

P/N 01-01145 ..... ---

NO. 402 MANDREL – The 402 mandrel is used primarily with cut-off wheels but is used with the following Dremel accessories: 409, 411, 412, 413, 420, 423, 425, 426, 456, 511, 512, 540 and 541.
Shank Diameter 1/8″, 3,2 mm .....P/N 01-22000 .....---

CARBON MOTOR BRUSH - One pair of motor brushes for use with Dremel rotary tool model(s): 100, 200, 275, 285, 300, 395 and 595 (Type 4, 5 and 6) and Dremel contour sander 6000 (Type 1 and 2).....P/N 01-01180 ..... ---

DREMEL 543 CUTTING / SHAPING WHEEL - For cutting and shaping on soft and hard woods, fiberglass, plastics and laminates (not metal.) This versatile wheel is coated with tungsten carbide grit for long life. It is coated on both sides, so it cuts and finishes in one operation..... P/N 01-01056 .....

MULTIPRO CHUCK - The Dremel MultiPro chuck allows you to quickly and easily change accessories on your Dremel MultiPro rotary tools without changing collets. Will accept accessories with 1/32" - 1/8" shanks. Use only with corded MultiPro tool models 275, 285, 395, 595.

P/N 01-00131 ..... ---

NO. 407 1/2" DRUM SANDER - Ideal for rough shaping of wood and smoothing of fiberglass. Sander bands are replaceable. Furnished w/ one band. 1/8" shank

P/N 01-19000 ..... ---

NO. 408 DRUM SANDER BANDS - 1/2" Diameter, Coarse grit.

P/N 01-19100 ..... ---

ALUMINUM OXIDE GRINDING STONES

Use on metals, castings, welded joints, rivets and rust. Ideal for sharpening, deburring and general purpose grinding of most materials.

911 932 941 945 952 953

Cutter	Size	Part No.	Price	Cutter	Size	Part No.	Price
#911	7/16"	01-00135	---	#945	3/16"	01-00138	---
#932	3/8"	01-00137	---	#952	3/8"	01-00139	---
#941	5/8"	01-00132	---	#953	1/4"	01-00140	---

971 997 8153 8175 8193 8215

Cutter	Size	Part No.	Price	Cutter	Size	Part No.	Price
#971	5/8"	01-00142	---	#8175	3/8"	01-00145	---
#997	3/32"	01-00143	---	#8193	5/8"	01-00146	---
#8153	3/16"	01-00144	---	#8215	1"	01-00147	---

STRUCTURED TOOTH TUNGSTEN CARBIDE CUTTERS

9931 9933 9934 9935

Fast cutting sharp teeth for greater material removal. Use on fiberglass, wood, plastic, epoxy, rubber, laminates, particle board, soft metals, ceramic tile.

Cutter	Size	Part No.	Price	Cutter	Size	Part No.	Price
#9931	1/4"	01-00148	---	#9935	5/16"	01-00153	---
#9933	1/4"	01-00151	---				

HIGH SPEED CUTTERS

High Speed Cutters can be used for shaping, hollowing, grooving, slotting, making tapered holes in soft metals, plastics and woods. Number 198 and 199 cutters can be used to make small slits.

100 114 115 116 117 118 121 124 125

134 144 190 191 192 193 194 196 199

Cutter	Size	Part No.	Price	Cutter	Size	Part No.	Price
#100	1/4"	01-19200	---	#134	5/16"	01-19800	---
#114	5/16"	01-19300	---	#144	5/16"	01-20000	---
#115	5/16"	01-20800	---	#190	3/32"	01-20200	---
#116	1/4"	01-20900	---	#191	1/8"	01-20300	---
#117	1/4"	01-21000	---	#192	3/16"	01-20400	---
#118	1/8"	01-21200	---	#193	5/64"	01-20500	---
#121	1/4"	01-19400	---	#194	1/8"	01-20600	---
#124	5/16"	01-19600	---	#196	7/32"	01-20700	---
#125	1/4"	01-21300	---	#199	3/8"	01-21700	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SANDPAPER

The weights and grits listed have been found to be the most effective for sanding fiberglass/epoxy surfaces. Sheet Size: 9" x 11".

Sandpaper Type		Part No.	Price /Sheet Less than 50 Sheets
Aluminum Oxide 36 Grit	Open Coat "D" Weight	01-26200	---

3M™ WET OR DRY SANDING SHEET

3M™ Wetordry™ Abrasive Sheet 413Q is an abrasive sanding paper constructed on a light, A-weight paper backing and features a waterproof resin bonding to help prevent heat buildup. The silicon carbide abrasive and waterproof backing make this paper an ideal product for sanding applications such as paint prep, sanding, sealer sanding, and solid surface finishing. This will produce satin-smooth finishes on metal and other doped, lacquered, or enameled surfaces.

Features:

- Silicon carbide mineral provides an aggressive cut and a consistent, fine finish
- Light, A-weight paper backing offers excellent flexibility in hands-on applications
- Resin bonding resists deterioration from heat, extending the life of the abrasive cloth
- Waterproof material allows for easy debris removal
- Can be easily cut and folded to fit any hand tool or work piece crevice

Sandpaper Grit Size	Part No.	Price/Sheet
100	01-37700	---
120	09-20550	---
150	09-01532	---
180	09-01531	---
320	09-20800	---
220	09-20600	---
240	09-01529	---
400	09-20900	---
600-A	09-01446	---

PREPPIN' WEAPON SANDING BLOCK

Preppin' Weapon is a handy sanding block made of Styrofoam core and high impact ABS that won't break when dropped. Easy to grip for wet or dry sanding. Contoured to fit the shape of a hand and is sized to fit a 1⁄4" sheet of plain backed 8 x 11 sandpaper or a 2 3⁄4" wide file paper. It's coil spring design holds single or multiple sheets equally tight and saves reloading time by stacking up to 4 sheets and tearing them away as the abrasive wears out. Save reloading time by using colors to indicate grits. Excellent for builders of aircraft, boats, cars, etc.

Color	Part No.	Price
Yellow	12-00505	---
Red	12-00506	---
Green	12-00507	---

SANDING DETAILER KITS

The Sanding Detailer is ideal for finishing those hard to reach areas. The abrasive belt can be indexed. The Sanding Detailer is spring loaded to put tension on the abrasive belt. After the abrasive belt is used up, the user can simply compress the tool and replace the abrasive belt with a fresh one. They are color coded for easy identification of grit. The replacement belts are color coded on the inside.

The Standard Kit includes (shown in picture):

- 1 Gray 80 Grit
- 1 Red 120 Grit
- 1 Orange 180 Grit
- 1 Blue 240 Grit • Grit tool along with 5 Replacement Belts of each grit

The Finishing Kit includes:

- 1 Blue 240 Grit
- 1 Green 320 Grit
- 1 Yellow 400 Grit
- 1 Black 500 Grit
- Grit tool along with 5 Replacement Belts of each grit

Description	Part No.	Price
Standard Kit, Coarser Grits	01-01411	---
Finishing Kit, Finer Grits	01-01412	---
80 Grit Belt- Replacements	01-01413	---
120 Grit Belts- Replacements	01-01414	---
180 Grit Belts- Replacements	01-01416	---
240 Grit Belts- Replacements	01-01417	---
320 Grit Belts- Replacements	01-01418	---
400 Grit Belts- Replacements	01-01419	---
500 Grit Belts- Replacements	01-01422	---

PERMA-GRIT CONTOUR SANDING BLOCKS

These user friendly sanding blocks are made from extruded, anodized aluminum. The 32mm (1.25") Radius Curve is covered on the external and internal radius with Tungsten Carbide abrasive sheets. The Contour Blocks come in either the Coarse (60US grit approx.) or Fine (120US grit approx.) Small block is 5.5" long and large block is 11" long.

Benefits:

...• ..... Shape and sand curves, grooves, etc. quickly and easily

...• .... Great for fillets, leading edges, under cambers, etc.

- Extremely tough, will not wear out like normal sandpaper
- Will last for years without having to change the sheets
- Does not clog easily (brush or knock out)
- Easy to remove glues, resins, paint, epoxy etc. w/ paint remover

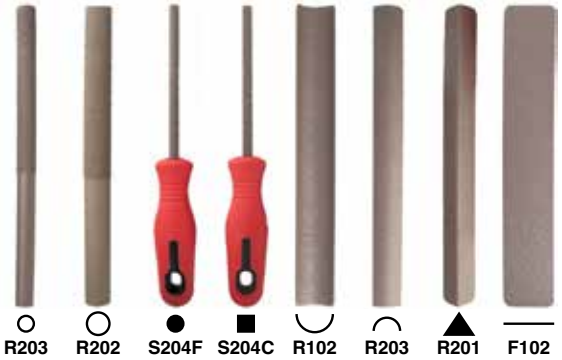
Description	Part No.	Price
140MM Contour Block (COURSE)	01-00591	---
140MM Contour Block (FINE)	01-00592	---
280MM Contour Block (COURSE)	01-00593	---
280MM Contour Block (FINE)	01-00594	---

PERMA-GRIT HAND TOOLS

CM

HAND TOOLS

Perma-Grit Tools are made of Tungsten Carbide Grit, one of the hardest elements available, second only to diamonds. They are specifically designed and developed for aircraft builders, woodworkers, and modelers. These tools will cut, sand and shape tough composite materials, saving homebuilders hours of building time. Ideal for fuselage shaping and wing building, these tools are highly recommended by several kitplane manufacturers. Available in coarse (180) & fine (320) grit.



Model #	Part No.	Description	Price
F-101	12-00040	230mm x 38mm Flat Fine File	---
F-102	12-00041	230mm x 38mm Flat Coarse	---
R-200F	12-00042	230mm x 26mm / 36mm diameter Fine	---
R-200C	12-00043	230mm x 26mm / 36mm diameter Coarse	---
R-201C	12-00044	230mm x 38mm Tangent Coarse	---
R-201F	12-00045	230mm x 38mm Tangent Fine	---
R-202C	12-00046	18mm diameter tube Coarse	---
R-202F	12-00047	18mm diameter tube Fine	---
R-203C	12-00048	12mm diameter tube Coarse	---
R-203F	12-00049	12mm diameter tube Fine	---
R-204C	12-00050	6 mm round Coarse grit	---
R-204F	12-00051	6 mm round Fine grit	---
S-204C	12-00052	6 mm square Coarse grit	---
S-204F	12-00053	6 mm square Fine grit	---
R-101	12-00054	230mm x 38mm diameter Internal Fine grit	---
R-102	12-00055	230mm x 38mm diameter Internal Coarse grit	---
Set 8C	12-00056	contains: 8 popular shapes in Tool Roll F-101, F102, R-200C, R-201C, R-202C, R-203C, R-204C, S-204C	---
Set 8F	12-00057	contains: 8 popular shapes in Tool Roll F-101, F102, R-200F, R-201F, R-202F, R-203F, R-204F, S-204F	---
TR1	12-00058	Tool Roll - Holds 8 tools, red plastic w/velcro fastener	---

ROTARY FILES

Supplied with a 3mm integral arbor so they may be used in reversible drive drills and hobby drills. These files are well balanced and run smoothly, and cur a wide range of materials with little need for secondary finishing. Available in coarse and fine grit.

Model No.	Part No.	Description	Price
RF1C	12-00070	Narrow Cone coarse	---
RF1F	12-00071	Narrow Cone fine	---
RF2C	12-00072	Wide Cone Coarse	---
RF2F	12-00073	Wide Cone Fine	---
RF3C	12-00074	Drum Coarse	---
RF3F	12-00075	Drum Fine	---
RF4C	12-00076	Pancake Coarse	---
RF4F	12-00077	Pancake Fine	---
RF5C	12-00078	Domehead Coarse	---
RF5F	12-00079	Domehead Fine	---
RF6C	12-00080	1/8 diameter Rod Coarse	---
RF6F	12-02247	1/8 diameter Rod Fine	---

SANDING BLOCKS & FLEXI-STRIPS

These verstile sanding blocks are ideal for sanding large areas, creating straight edges, producing dihedral angles, profiling leading edges, feathering trailing edges, and more. The sanding blocks are coarse grit on one side and fine grit on the opposing side. The flexible grit strips can be cut and shaped to any form, external or internal.

Model #	Part No.	Description	Price
SB140	12-00064	140mm x 51mm Coarse one side, fine opp.	---
SB280	12-00065	280mm x 51mm Coarse one side, fine opp.	---
SB560	12-00066	560mm x 51mm Coarse one side, fine opp.	---
FXT-103	12-00060	51mm x 280mm Fine Grit Strip	---
FXT-104	12-00061	51mm x 280mm Coarse Grit Strip	---
FXT-106	12-00062	51mm x 140mm Fine Grit Strip	---
FXT-107	12-00063	51mm x 140mm Coarse Grit Strip	---

3/8" INCH NEEDLE FILE KIT WITH HANDLE

Set of 5 files: Hand, Round, Halfround, Square and 3-Square Extremely versatile tools, popular for detailed work. These file cuts in any direction and does not clog easily. Cuts quickly leaving an excellent finish .....P/N 12-01752 ..... ---

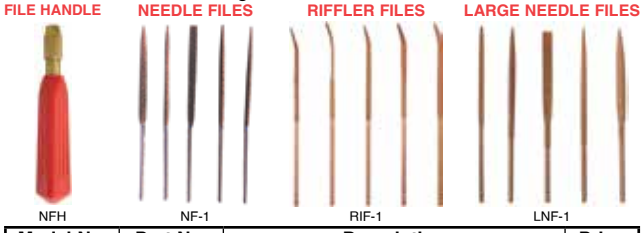
ROTARY CUTTING DISCS

These durable cutting discs are available in two sizes (19mm and 32mm) and come complete with a 3mm steel arbor to fit hobby drills. Will cut all woods, piano wire, composites, ceramics, stone, etc.

Model No.	Part No.	Description	Price
RD-1	12-00067	19mm diameter disc with arbor	---
RD2	12-00068	32mm disc with arbor	---
RD3	12-00069	19 & 32mm disc with arbor	---

NEEDLE FILES

These extremely versatile tools are excellent for shaping and finishing. They will cut in any direction and do not clog easily. Our needle files cut quickly and leave an excellent finish. Very popular for detail work. Furnished in Medium 280 grit.



Model No.	Part No.	Description	Price
NF1H	12-00081	Set of 5 needle files w/ Handle	---
NF1	12-00082	Set of 5 needle files w/o Handle	---
NF-F	12-00083	Flat needle file	---
NF-K	12-00084	Knife needle file only	---
NF-R	12-00085	Round needle file only	---
NF-S	12-00086	Square needle file only	---
NF-T	12-00087	Triangle needle file only	---
RIF-1	12-00088	Set of 5 Riffler files w/ Handle	---
RIF1	12-00089	Set of 5 Riffler files w/o Handle	---
RIF-F	12-00090	Flat Riffler file only	---
RIF-H	12-00091	Half-round Riffler file only	---
RIF-R	12-00092	Round Riffler file only	---
RIF-S	12-00093	Square Riffler file only	---
RIF-T	12-00094	Triangle Riffler file only	---
LNF-1	12-00095	Set of 5 Large needle files / no handle	---
LNF-F	12-00096	Flat Large needle file only	---
LNF-H	12-00097	Half-Round Large needle file only	---
LNF-R	12-00098	Round Large needle file only	---
LNF-S	12-00099	Square Large needle file only	---
LNF-T	12-00100	Triangle Large needle file only	---
NFH	12-00101	Needle File handle only	---

LARGE NEEDLE FILE HANDLE

Comfortable plastic handle with brass collet to accept all large (18cms) needle files. Overall length 115mm. Collect 5mm.

P/N 12-00166 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

INVISIBLE GLOVES #1211

Invisible Gloves #1211 are a soft paste-like substance that when applied to hands provide protection against caustic and carcinogenic chemical products including hydraulic fluid, paints, ink, MEK, zinc chromate, jet fuel, graphite, engine exhaust by-products, adhesives and much more. Invisible Gloves meets military and industrial safety standards and can protect any area of the body (hands, arms, face, legs, etc...) exposed to hazardous products. Especially useful in working with materials used in composite aircraft construction. One pint yields 100 pair of gloves. Invisible Gloves #1211 are easily removed with water. Allows complete freedom of hand and finger movement. Hands will not heat up and tools will not slip .....P/N 12-15800 .....**---/pint**

RAVEN GLOVES

Powder-Free Nitrile. Superior Puncture & Abrasion Resistance. Latex-Free Textured Grip Beaded Cuff Ambidextrous. 6 mil Nitrile. Sold in boxes of 100 gloves.

.....Medium..... P/N 01-01402 ---

.....Large ..... P/N 01-01403 ---

THICKSTER GLOVES

Lightly Powdered Exam Grade Latex. Extra Thick Latex Protection. 12" Length for Added Protection. Textured Grip. Beaded Cuff. Ambidextrous. 14 mil Latex. Sold in boxes of 50 gloves.

.....Medium..... P/N 01-01394 ---

.....Large ..... P/N 01-01395 ---

SERIES 8 WASH-OFF HAND PROTECTION

SERIES 8 - A less expensive "clone" of the famous PR88 hand creme developed in Europe, Series 8 is highly recommended by Rutan Aircraft Factory for working with epoxies. It protects hands from most epoxies, grease, oil paint, paste, gasoline, tar, lacquer, acetone, styrene, fiberglass and many more substances. It helps prevent chapping, cracking and drying of hands, and is an excellent aid to persons with sensitive skin. No soap is needed for cleanup - hands wash clean with water alone. 32 Oz. (Qt.) Plastic Jar .....P/N 13-38306 ..... ---

PLY NO. 9 PROTECTIVE HAND GEL

Provides a thin, invisible, flexible film which is an excellent barrier to epoxy resins, rubber adhesives, vinyl plasticizers, polyester resins and glass fibers. Epoxy and gel wash off easily in soap and water.

One-Lb. Jar ..... P/N 01-36100..... ---

DENATURED ALCOHOL

Can be mixed with soap and water. Is harmless to rubber. Use as a solvent for thinning, removing and cleaning epoxy, brushes, and equipment.

Gallon .....P/N 01-00399 ..... ---

REPLACETONE

Cleans polyester and epoxy resins from tools and hands without the hazards associated with chemical cleaning solvents. It is a non-volatile, non-flammable, and a biodegradable replacement for acetone and MEK solvents. Replacetone separates resins to the bottom of the cleaning container, but it does not dissolve them. Pour off non-emulsified Replacetone and use again.

Gallon .....P/N 01-08834 ..... ---

COTTON GLOVES

Lightweight liners - wear under latex gloves. More comfort, improved sensitivity.

P/N 01-36600 ..... **---/Pair**

BUTYL CHEMICAL RESISTANT GLOVES

These gloves are resistant to the permeation of epoxy resins and curing agents and have been found to offer by far the best protection of any glove available.

Size - 9 equal to a Large size glove

P/N 01-36700.....---

ASTRO GRIP™ NITRILE DISPOSABLE GLOVES

Astro-Grip™ Dual-Sided Scale Grip Disposable. Powder-free nitrile. Thickness: 6 mil. Dual-sided scale textured surface for superior grip. High visibility safety orange color. Non-latex. Exceptional chemical and puncture resistance. Maximum comfort for extended wear. 100 gloves per box.

XX-Large .....P/N 01-01536 ..... ---

WORX DISPOSABLE LATEX GLOVES

5mil Latex powder free Industrial gloves. General Purpose Lite Duty Gloves. Size: Large Excellent Dexterity.

Pack of 100 .....P/N 01-01586 ..... ---

TYVEK SUITS

DuPont Tyvek CVCH11 Disposable Coveralls are made of Tyvek - a tough polyolefin material - which provides the best balance of protection, durability and comfort. These lightweight overalls feature a great range of movement while stretching and bending, improved mobility, a tailored fit and reinforcement in high stress areas. Zipper front, attached hood and elasticized wrists and ankles create a hard-to-penetrate seal for contaminants. DuPont Tyvek Suits are perfect for use against such non-hazardous materials as dirt and grime, animal waste, paints, oil and grease, lubricants or hazardous materials including: fertilizer, pesticides, asbestos, lead, chromium, mold, fiberglass and radioactive particles. Available in extra large or extra extra large.

X-Large .....P/N 01-36800 ..... ---

XX-Large.....P/N 01-36805 ..... ---

MAXSHIELD DISPOSABLE PROTECTIVE CLOTHINGS

RECYCLED TYVEK® APRONS

The Better-Than-Plastic Apron. A regular throw-away plastic apron might be good enough for small jobs. But for complete protection from food splashes, hot oil, dangerous chemicals, and other big messes, the serious professional chooses a Tyvek® apron.

Features: • Bib style for full protection. • 28" x 36" in size. • Serged seams for strength. • Long ties to customize the fit.

P/N 12-01824 ..... ---

TYVEK® DISPOSABLE SHOE COVERS

Boot Covers High top boot covers w/elastic top.

P/N 12-01825 ..... ---

TYVEK® DISPOSABLE SHOE COVERS

Tyvek® 400 FC -- a DuPont™ Tyvek® protective fabric with a skid resistant friction coating. Used exclusively for shoe and boot covers and skid-resistant booties in select Tyvek® coveralls.

Color: Gray. .....P/N 12-01995 ..... ---

SPRUCE SPARS – CAPSTRIP – STRINGERS

WP

GENERAL ORDERING INFORMATION

Aircraft spruce spars are available either S2S (surfaced 2 sides, top & bottom, with rough edges in 4" & 6" nominal width) or S4S (surfaced all 4 sides to thickness & width). Prices in table below are for S4S spars. If S2S is desired so builder can trim to exact width, specify S2S and use 4" or 6" width prices from table. Request quote on spar widths wider than 6". Spars for certificated aircraft such as Aeronca, Stearman, Taylorcraft and Piper are available and may be priced from the table. Since many of these early aircraft were "handmade", the spars are often not uniform in size for a particular model. Therefore, the finished net dimensions should be specified when ordering replacement spars. Please price to nearest fraction.

Thousands of feet of S2S aircraft quality spruce are stocked in our Corona, CA. and Peachtree City, GA. warehouses. Orders for spars, spruce kits and capstrip can usually be shipped within three weeks after receipt of order. Spars wider than 6" must be milled from 8" specially selected stock which requires a long and indefinite lead time. Prices on request.

When ordering either spars or capstrip, designate the thickness first, then the width and length.
Examples: 3/4"T x 4-1/4"W x 14'L spar; 1/4"T x 1/2"W x 5'L capstrip.

SPRUCE KITS

See or website for complete Spruce Kits and Spar Kits for many popular homebuilt designs

BARGAIN BAG OF SPRUCE

Assortment of at least ten pieces, in random lengths from 1 ft. to 5 ft., of rough, S2S or S4S remnants and cutoffs. A usable selection is assured. Approx. wt. 20 lbs. ..... P/N 02-03600..... ---

METRIC SIZES - Spruce can be cut to metric sizes upon request only as special order, non cancelable and non refundable.
Using our current part numbers please select one size greater than desired and at check out in "Special Instructions" advise exact metric dimensions needed.

SPRUCE SPAR STOCK—MIL SPEC. MIL-S-6073

PRICE PER LINEAL FOOT*

THICKNESS (Inches)	WIDTH (Inches)													
	2-3/4	3	3-1/4	3-1/2	3-3/4	4	4-1/4	4-1/2	4-3/4	5	5-1/4	5-1/2	5-3/4	6
1/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1/4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-1/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-1/4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-1/2	---	---	---	---	---	---	--	--	---	---	---	---	---	---
1-5/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* Please order by part number and also state exact thickness, width and length to verify part number. Spruce part numbers begin with "02" and finish with thickness and width. Examples: 3/4"T x 5-1/4"W is P/N 02-34514; 1-1/4"T x 6"w is P/N 02-1146. Provide part number and footage required of each size. Specify any particular lengths required. Thicker & wider sizes subject to availability. Request quotation.

FOR SPARS 6-1/4" TO 9" WIDE, SEE OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM

FINISHED CAPSTRIP, LONGERONS, STRINGERS

PRICE PER LINEAL FOOT*

THICKNESS (Inches)	WIDTH (Inches)														
	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2
1/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1/4		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/16			---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/8				---	---	---	---	---	---	---	---	---	---	---	---	---
1/2						---	---	---	---	---	---	---	---	---	---	---
5/8							---	---	---	---	---	---	---	---	---	---
3/4								---	---	---	---	---	---	---	---	---
7/8									---	---	---	---	---	---	---	---
1										---	---	---	---	---	---	---

Please order by part number and also state exact thickness and width. Begin part number with "02", then thickness & width.
Example: 1/4"T x 3/8"W is P/N 02-1438. Capstrip is furnished in lengths as specified by customer.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

DOMESTIC MIL-P-6070 AIRCRAFT PLYWOOD

American-made structural aircraft-grade plywood is made of imported African Mahogany or American Birch veneers laminated in a hot press to hardwood cores of Poplar or Bass wood with waterproof glue. Will meet all requirements of specification MIL-P-6070, which calls for shear testing after immersion in boiling water for 3 hours. Far superior to many plywoods in which all plies are 1/16" thick and laminated in a cold press to make up the total thickness. Tests should be made on cold-press plywoods before use in aerobatic aircraft.

Thickness			No. of Plies	90° Mahogany			90° Birch		
In.		Approx. MM.		Approx. Wt. 4' x 8' Sheet	Part No.**	4' x 8' Sheet	Approx. Wt. 4' x 8' Sheet	Part No.**	4' x 8' Sheet
1/16	(.070)	1.5	3	6 Lbs.	02-189--	---	7 Lbs.	02-243--	---
3/32	(.100)	2.5	3	10 Lbs.	02-191--	---	12 Lbs.	02-244--	---
1/8	(.125)	3.2	3	12 Lbs.	02-193--	---	15 Lbs.	02-245--	---
3/16	(.190)	4.8	3-5	20 Lbs.	02-195--	---	24 Lbs.	02-246--	---
1/4	(.250)	6.4	5	25 Lbs.	02-197--	---	30 Lbs.	02-247--	---
5/16	(.312)	7.9	5	Lbs.	02-198--	---	30 Lbs.	02-251--	---
3/8	(.375)	9.5	5	Lbs.	02-199--	---	30 Lbs.	02-266--	---
7/16	(.437)	11.1	7	Lbs.	02-120--	---	30 Lbs.	02-267--	---
1/2	(.500)	12.7	7	Lbs.	02-121--	---	30 Lbs.	02-260--	---
				45° Mahogany			45° Birch		
1/16	(.070)	1.5	3	6 Lbs.	02-188--	---	7 Lbs.	02-248--	---
3/32	(.100)	2.5	3	10 Lbs.	02-190--	---	12 Lbs.	02-249--	---
1/8	(.125)	3.2	3	12 Lbs.	02-192--	---	15 Lbs.	02-250--	---
1/4	(.250)	6.4	5	---	---	---	30 Lbs.	02-271--	---

*Domestic plywood is sold only in 2'x4' (8 Sq.Ft.), 4'x4' (16 Sq.Ft.), 2'x8' (16 Sq.Ft.), and full 4' x 8' sheets. If ordering less than full sheet, compute cost based on price/sq.ft. shown in above table.

** The part numbers of full 4' x 8' sheets end with "80". For less than full sheets, the last two digits will change according to the size ordered. Change the last two digits in the part number to "10" for 4' x 4', "20" for 2' x 8' and "30 for 2' x 4'. Example: 1/16" mahogany 90° is 02-18980 (4' x 8'), 02-18910 (4' x4'), 02-18920 (2' x 8') and 02-18930 (2' x4').

FINNISH BIRCH AIRCRAFT PLYWOOD (METRIC)

Note: Full sheets are 4' x 4' and half sheets are 2' x 4', with the exception of 02-00236 which are furnished in 61" x 61" full sheets.

Quality Birch Aircraft grade plywood produced to AB/B grade on all thicknesses. Finnish birch plywood is furnished in 48" x 48" sheets, depending on current availability. Prices fluctuate with changes in sheet sizes. Full sheets require truck shipment unless cut in half for UPS. **Color may vary. Attention: 2' x 4' Plywood are cut with grain. If cross cut required, specify at time of order.**

Thickness		Plies	Half Sheet 2'x4'		Full Sheet 4'x4'	
Nom. Inch.	mm		Part No.	Price	Part No.	Price
1/64	0.4	3	02-20250	---	02-20200	---
1/32	0.8	3	02-20350	---	02-20300	---
3/64	1.0	3	02-50050	---	02-50000	---
1/16	1.5	3	02-20450	---	02-20400	---
3/32	2.5	5	02-20550	---	02-20500	---
1/8	3	6	02-20650	---	02-20600	---
5/32	4	8	02-00237	---	02-00236	---
3/16	5	10	02-20750	---	02-20700	---
1/4	6	12	02-20850	---	02-20800	---

Corby Starlet 2MM x 48" x 48".....P/N 02-28050 ..... ---
1/4 Birch/Poplar 5ply, 45°.....P/N 02-27180 ..... ---

OKOUME PLYWOOD

Okoume (o-KUE-me), also referred to as Gaboon, is an African hardwood widely used in Europe over the past century. Light pinkish brown in color, sometimes lustrous with variable interlocking grain, the rotary cut panel can be painted or finished bright. The natural durability of this species is extremely low and care must be taken to finish all surfaces, face and edges. Often recommended for use with epoxy saturation systems, the panel exhibits high strength to weight ratios. Face veneers are made from 1.3 mm thick A/B grade rotary cut veneer. Cores and crossbands are solid-joined and the panel glued with waterproof glue. Okoume panels are extensively used by race class boat builders, rowing shell builders and in various applications. Where its lighter weight, good bending properties and ease of finishing are a value, 5/32" thickness is used in the One Design Kit Aircraft and applicable to a wide variety of Homebuilt Aircraft, sold in 4'x8' sheets. Wt. of 5/32" sheet is 8.8 lb. Wt. of 1/4" sheet is 28 lbs. Thickness varies from 4mm to 6mm. Can be cut down for shipping. Certified bs1088

4mm thick x 4' x 8' sheet.....P/N 02-20100 ..... ---
6mm thick x 4' x 8' sheet.....P/N 02-00076 ..... ---

LITE PLY PLYWOOD

The beautiful, pliable answer to shaped and curved construction problems. Lite Ply® is distinguished by its even grain, virtually snow white appearance and unusual resilience. It is a true "white wood, " poplar and finishes uniformly, whether stained or painted.

Supplied for over 50 years, Lite Ply® has proven to be an excellent wood for industries where weight is a concern. Lite Ply® has been proven to be a cost effective alternative to other light weight panels.

4' X 8' Sheet 1/8" 3MM.....P/N 02-00115 ..... ---
4' X 8' Sheet 1/4" 6MM.....P/N 02-00116 ..... ---

ROYAL MARINE A-B FIR PLYWOOD

First quality marine plywood that meets or exceeds requirements of specifications PS 1-74. All are Douglas Fir.

$4.00 packing charge for less than 3 sheets unless cut to 2'x4' pieces for UPS shipment.

Thick-ness	No. of Plies	Part No.*	Price			
			2'x2'	2'x4'	4'x4'	4'x8'
1/4"	3	02-210--	---	---	---	---
3/8"	4	02-211--	---	---	---	---
1/2"	5	02-212--	---	---	---	---
5/8"	7	02-213--	---	---	---	---
3/4"	7	02-214--	---	---	---	---
1"	7	02-215--	---	---	---	---

***Please order by part number, note thickness & size for verification. The part numbers for full 4'x8' sheets end with "80". For less than full sheets, the last 2 digits of the part number. Will change according to size ordered. Change last 2 digits of the part no to "20" for 2'x2', "40" for 2'x4' & "60" for 4'x4'. Example: 1/4" 2'x4' is 02-21040.**

BASSWOOD MIL-P-6070 AIRCRAFT PLYWOOD

Basswood meets MIL-P-6070 but is lighter and has more flexibility than Mahogany & Birch plywood, but has slightly less structural strength.

Thickness	No. of Plies	Part No.*	Price			
			2'x2'	2'x4'	4'x4'	4'x8'
1/16"	3	02-253--	---	---	---	---
3/32"	3	02-254--	---	---	---	---
1/8"	3	02-255--	---	---	---	---
3/16"	3	02-256--	---	---	---	---
1/4"	5	02-257--	---	---	---	---
5/16'	5	02-258--	---	---	---	---
3/8"	5	02-261--	---	---	---	---
7/16"	7	02-262--	---	---	---	---
1/2"	7	02-263--	---	---	---	---
5/8"	9	02-265--	---	---	---	---
3/4"	9	02-264--	---	---	---	---

Note: All sheets 4'x8'. All plies are basswood. Grain is 90°. Part nos for full 4'x8' sheets end with "80". For less than full sheets, the last 2 digits will change according to the size ordered. Change the last 2 digits in the part no to "60" for 4'x4', "20" for 2'x2' and "40" for 2'x4'. See example in domestic plywood table.

5/16" 5 PLY BIRCH/ BASSWOOD PLYWOOD

2X2.....P/N 02-27220 ..... ---
2X4.....P/N 02-27240 ..... ---
4X4.....P/N 02-27260 ..... ---
4X8.....P/N 02-27280 ..... ---
4X8 90° .....P/N 02-25880 ..... ---

ATTENTION - 90° 2' x 4' Plywood are cut with grain. If cross cut required, specify at time of order

SPRUCE KITS – BALSA WOOD

TRIANGULAR CORNER BLOCKING

90° Corner Blocking
Order by the foot.

Size	Part No.	Price Per Ft.	Size	Part No.	Price Per Ft.
1/4”	02-17600	---	1/2”	02-18000	---
5/16”	02-17700	---	5/8”	02-18100	---
3/8”	02-17800	---	3/4”	02-18200	---
7/16”	02-17900	---	7/8”	02-18300	---

“T” STRINGER STOCK

Standard Spruce stringer material finished to the dimensions illustrated. Lengths over 8 feet require truck shipment.
Lengths to 8 Ft.
P/N 02-18400.....**---/ft.**

Add 20% for lengths over 8 feet.

3M™ SCOTCH-WELD DP190 TRANSLUCENT EPOXY ADHESIVE 200 ML

3M™ Scotch-Weld™ Epoxy Adhesive DP190 - Translucent is a two-part epoxy adhesive that delivers exceptional performance with high shear and peel strength. This epoxy adhesive is formulated to bond to a wide range of materials, such as metals, ceramics, wood, fiberboard, glass, rubber and many plastics. With an 80-minute work-life, this epoxy adhesive allows for an extended period of time for adjustment and precise application. 3M™ Scotch-Weld™ Epoxy Adhesive DP190 reaches handling strength in approximately 10 hours and full cure in 14 days at room temperature. This epoxy adhesive has low viscosity and a 1:1 mix ratio. Additionally, we engineered 3M™ Scotch-Weld™ Epoxy Adhesive DP190 — Translucent to exhibit good environmental aging properties, delivering long-term durability. Volume: 200 ml
P/N 09-04777 ..... ---

FIX-IT

Fix-it is a universal repair compound. It is excellent for rebuilding or fabricating parts and as an all purpose adhesive for wood, metals, ceramic, glass, and many plastics. Fix-it can be tapped or drilled, sanded, filed or painted. Patch holes and cracks and seals leaks. Sets rock hard overnight. Fix-It is non-toxic, non-hazardous, and impervious to fuels and liquids.
White 1/4 lb.....P/N 01-14770 ..... ---
White 1 lb.....P/N 01-14775 ..... ---
Silver 1/4 lb.....P/N 01-14790 ..... ---
Silver 1 lb.....P/N 01-14795 ..... ---

BALSA WOOD

Balsa is the lightest commercial wood in the world, weighing less than 10 lbs./cu.ft. Pound for pound, it is one of the strongest - both its stiffness and bending strength exceed White Spruce, Western Yellow Pine, Douglas Fir, White Oak and many other commercially used woods. It is easily cut, turned, carved, shaped, glued, sanded and finished, all with ordinary wood working tools and techniques. It can be shaped with abrasive wheels either wet or dry. It can be cut into extremely thin veneers. Almost any kind of coating will adhere to it. Meets specifications MIL-B-2747 and MIL-S-7998.
Furnished as 2” thick boards, 3 ft. long from 3”-6” wide. Material which may be glued together by the builder to make the required size pieces.
2” x 2” x 3 ft Pc.....P/N 02-00246 ..... **---/ea.**

ACTUAL SIZES OF BOARDS CAN VARY

INSTANT GLUES

These American made Instant Glue products were used extensively in construction of the “Around the World Non-stop” Voyager aircraft and are highly recommended for many homebuilt aircraft applications by Voyager Aircraft, Inc. and Rutan Aircraft Factory. They create a fast, permanent bond on many similar and dissimilar materials such as woods, metals and composite materials.

HOT STUFF™ - Odorless THIN have a consistency resembling that of water, used mainly for bonding parts which fit very well. 2oz.
P/N 01-35500 ..... ---

SUPER ‘T’™ - A consistency similar to that of syrup and has the ability to fill small gaps between parts which don’t fit perfectly. SUPER ‘T’™ cures at a slower rate than HOT STUFF™, (10-25 seconds depending on the material). 2oz. .....P/N 01-35600 ..... ---

SPECIAL ‘T’™ - Special ‘T’™ and new UFO™ Odorless THICK are very thick cyanoacrylates with a consistency resembling cold honey. SPECIAL ‘T’™ and UFO™ Odorless THICK have greater gap-filling ability than SUPER ‘T’™ and more positioning time after contact of parts. The rate of cure is slow enough, (usually 50-60 seconds depending on the material), to allow precise alignment of parts, after assembly. 2oz.
P/N 01-01039 ..... ---

NCF QUICK™ - Used with HOT STUFF, UFO Odorless THIN, SUPER T, and UFO Odorless THICK., and with it you can do almost magical things. NCF Quick works in three ways to make HOT STUFF , SUPER ‘T’ and SPECIAL ‘T’ Easier, Faster, Stronger and able to bond some of the most unusual materials you can think of. 6 oz.....P/N 01-00689 ..... ---

SUPER SOLVENT™ - Super Solvent™ is a remarkable debonder and cleaner for any instant glue. Use it for hand clean-up, removes instant glue from most clothing and surfaces. Some fabric, colorings or materials may be affected, so test-patch on an inconspicuous place. Add 2oz.
P/N 01-35800 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BSI QUIK-CURE 5 MINUTE EPOXY

QUIK-CURE™ 5 min. epoxy cures to a slightly flexible consistency. This lack of brittleness allows it to form a lasting bond in areas subjected to high vibration or stress. QUIK-CURE™ shouldn't be used in areas that are subject to long-term immersion in water; however, it works fine for the internal structure of wood framed boats. QUIKCURE™ is our only epoxy on which you can apply polyester resins. It can be mixed with microballoons to form a quick setting putty. Items bonded with QUIK-CURE™ can be handled after 15 minutes. Full strength is reached in 1 hour.

P/N 01-01443 ..... ---

BSI SLOW-CURE 30 MINUTE EPOXY

SLOW-CURE™ 30 min. epoxy works best for forming reinforcing fillets on joints. It has the highest strength of our epoxies. It is waterproof and more heat resistant. SLOW-CURE™ can be used for bonding if you're willing to wait overnight. Fillers such as microballoons can be mixed with SLOW-CURE™ and FINISH-CURE™ to form a putty-like consistency. Such fillers will usually decrease the working time by about 25%. Bonded objects can be handled after 8 hours and the cured epoxy reaches full strength within 24 hours .....P/N 01-01444 ..... ---

BSI INSTA-CURE SUPER THIN CYANOACRYLATE

INSTA-CURE™ has a water-thin viscosity that wicks deep into joints by capillary action and cures in a matter of a few seconds. Surfaces to be bonded must be tight fitting and should be held together while you apply the CA around the edges of the seam. At the moment CAs cure, they give off a vapor that can irritate the nose and eyes, so be prepared. Thin CAs work very well on balsa since they penetrate into the wood and form more than just a surface bond.

1 oz.....P/N 01-01460 ..... ---
2 oz.....P/N 01-01447 ..... ---

BSI INSTA-CURE GAP FILLING CYANOACRYLATE

INSTA-CURE+™ is a higher viscosity CA for loose fitting joints in which the adhesive must bridge gaps. Normally, the thicker CA is applied to one surface and then the parts are held tightly together for about 5 to 15 seconds. For large surface areas, including those with close fitting joints such as laminations, INSTA-CURE+™ should also be used. To prevent premature curing, don't spread the glue into a thin film. Lay down a serpentine bead with about 1" separations on one surface, then assemble the parts, letting the pressure spread the CA out.

1 oz.....P/N 01-01461 ..... ---
2 oz.....P/N 01-01448 ..... ---
8 oz. Refill.....P/N 01-01458 ..... ---

BSI MAXI-CURE EXTRA THICK CYANOACRYLATE

MAXI-CURE™ extra thick CA is the best CA for most plastics, including GE's Lexan MAXI-CURE™ is the best choice for plastic model assembly. When used with INSTA-SET™, it works better than any putty for modifying or filling voids. It can be carved with a knife or razor blade and sanded and feathered to form a finish indistinguishable from plastic.

1 oz.....P/N 01-01459 ..... ---
2 oz.....P/N 01-01449 ..... ---

INSTA-WELD 2 THICK

Urethane Supply Company's Insta-Weld 2 thick glue works well when you need to fill a gap. Insta-Weld 2 has about the consistency of 30 weight oil. To use, apply Insta-Weld 2 and then spray with Insta-Weld Activator (sold separately) for quick curing. Insta-Weld 2 will cure without the Insta-Weld Activator (sold separately) but it will take MUCH longer. Try Insta-Weld on everything. It will either work, or not work, instantly. Does NOT work on olefin based plastics like polyethylene, polypropylene, TPO and TEO. 2 fl. oz. (59 ml) bottle.....P/N 01-01434 ..... ---

BSI SUPER-GOLD+ GAP FILLING ODORLESS FOAM SAFE

SUPER-GOLD+™ are odorless INSTA-CURE CAs. They are non-frosting and take only 2 or 3 seconds longer to bond. There are no fumes that irritate the nose and eyes. Do not attack white foam; therefore, they can be used in the building of foam core wings and the assembly and repair of plastic and foam ARF's. They will not fog clear plastic. Ideal for attaching clear canopies in plastic model kits; however, MAXI-CURE™ is still recommended for assembling the rest of plastic kits. Wood can be bonded to white foam with SUPER-GOLD +™ in less than fifteen seconds.

P/N 01-01450 ..... ---

BSI INSTA-CURE+ POCKET CYANOACRYLATES GAP FILLING

BSI has added a 4 oz. size to go along with the 3/4 oz. cyanoacrylates. These Pocket CAs feature a new top that has a pin built into the cap that covers the nozzle. This pin seals the bottle so that if it is tipped over, the bottle will not leak. Has a the blunt nozzle which makes it more difficult to apply small amounts of the CA, especially in tight places. Over 70% prefer our standard top for general bonding purposes. .....P/N 01-01451 ..... ---

BSI INSTA-SET CYANOACRYLATES ACCELERATOR

INSTA-SET™ is a catalyst which acts as an accelerator that allows CAs to quickly cure in thick layers by enhancing the alkaline conditions during polymerization. INSTA-SET™ in a spray bottle is normally used to cure the CA that flows from joints when parts are pressed together. Applying an additional bead of thick CA along a seam and then curing it with INSTA-SET™ significantly enhances a joint's strength. For difficult to bond materials, INSTA-SET™ can be applied to one surface and CA to the opposite surface. When brought together, they will bond instantly. INSTA-SET™ is formulated with a strawberry scent and activates CA in 6 to 8 seconds without any degrading of the CAs strength, which can occur with many other accelerators. It is compatible with all surfaces, even clear plastic and white foam.

Description	Part No.	Price
Pump Spray - 2 Fl. oz	01-01453	---
Refill - 8 Fl. oz.	01-01454	---
Aerosol - 6.75 Fl. oz.	01-01455	---

BSI UN-CURE CYANOACRYLATE DEBONDER

QUIK-CURE™ 5 min. epoxy cures to a slightly flexible consistency. This lack of brittleness allows it to form a lasting bond in areas subjected to high vibration or stress. QUIK-CURE™ shouldn't be used in areas that are subject to long-term immersion in water; however, it works fine for the internal structure of wood framed boats. QUIKCURE™ is our only debonder on which you can apply polyester resins. It can be mixed with microballoons to form a quick setting putty. Items bonded with QUIK-CURE™ can be handled after 15 minutes. Full strength is reached in 1 hour.

P/N 01-01456 ..... ---

BSI IC-LOC BLUE MEDIUM STRENGTH THREAD LOCKER

C-Loc™ Blue is a medium thickness, medium strength threadlock that is applied to the threads of fasteners before assembly. Once the IC-Loc Blue™ is cured, the fasteners can be disassembled with standard hand tools if required.

P/N 01-01457 ..... ---

CASCOPHEN

A Resorcinol Formaldehyde Adhesive capable of curing at room temperature and providing strong, durable, waterproof bonds. Comes in two parts, a liquid resin (part A) and a powered catalyst (part B). The liquid resin is an alcohol-water solution of a partially condensed resorcinol-formaldehyde resin containing a suitable reinforcing cellulosic filler. The hardener is a tan powder formulated from paraformaldehyde and a suitable cellulosic filler. Produces a cured glue line which is resistant to fresh water or salt water, most acids and organic solvents, and lubricating oils and greases. Being thermoset, the bond is resistant to elevated temps. and conversely, no loss in bond strength occurs at temperatures as low as -40°F. Surfaces include treated woods, many plastics, natural and synthetic rubber, primed metal, leather, textiles, paper and fiber boards.

Pint Kit (Pint A, 1/4lb B) .....P/N 02-00036 ..... ---
Quart Kit (Qt A, 1/2lb B) .....P/N 02-00037 ..... ---
Gallon Kit (Gal A, 2lbs B) .....P/N 02-00038 ..... ---

FPL-16A HUGHES GLUE

This is an exceptionally fine two-part white epoxy glue for homebuilt and experimental aircraft. Not only for wood but for many other applications such as a metal to wood adhesive, metal to metal, just about anything with the exception of some plastics. It has been used by builders for many years with universal acceptance. Its low viscosity makes it very easy to work. Shelf life: Resin - more than 1 yr. Hardener - Indefinite.

Qt. Kit (1 qt. resin, 4oz hardener, Wt 4 lbs)
P/N 02-23400 ..... ---

HYSOL EA-9430 GLUE

Replaces the EA-9410-2 glue. EA-9430 has the same characteristics as the EA-9410, but has a 50 minute pot life instead of the 30 minute pot life of the EA-9410 at 77°F. Used extensively in the Strojnik S2A sailplane and many other homebuilts.
P/N 02-18600 ..... ---

WEST SYSTEM SIX10 THICKENED EPOXY ADHESIVE

Six10 Adhesive gives you the strength and reliability of a two-part WEST SYSTEM epoxy with the convenience of a single part product. Six10 is dispensed with a standard caulking gun. Non-sagging Six10 bonds tenaciously to wood, metals, fiberglass and concrete. It cures in temperatures as low as 50°F. Working time is 42 minutes at 72°F. Cures to a solid in 5–6 hours and will take high loads in 24 hours. Cure time is faster at warm temperatures and slower in cool temperatures. Dispense mixed 2 part epoxy adhesive using a standard caulking gun. The efficient internal geometry of the 600 Mixer thoroughly blends resin and hardener in a short mixing length for good application control and a minimum of waste. Additional 600 Static-Mixers are available in packages of two or twelve.

Part No.	Description	Unit Size	Price
01-01069	Epoxy Adhesive Cartridge	190 ml	---
01-01071	Static Mixers	2 ea	---

FASTWELD 10 A/B HIGH SETTING EPOXY

Fastweld 10 A/B epoxy adhesive is a rapid-setting, two-component paste offering a convenient one-to-one mixing ratio by volume or weight. Fastweld 10 A/B epoxy adhesive produces strong bonds in a very short period. It is especially suited for bonding small parts and for repair work. Pot life: 3-4 minutes at 77° F, Cure Time: 4 hours. Shelf life: 3 years.....P/N 09-03454 ..... ---
3M™ EPX Pneumatic Mix Nozzle 9742.....P/N 09-01372 ..... ---

GORILLA GLUE
TOUGHEST GLUE ON EARTH

Gorilla Glue is known as the toughest glue on planet Earth. A high strength adhesive that quickly bonds wood, metals, stones, ceramics, and more. Gorilla Glue is a versatile, interior/exterior adhesive ideal for building projects. 8 oz. bottle.
Benefits: • 100% Waterproof • Incredibly Strong and Versatile • Stainable and Paintable • Easily Sanded • More Coverage • A Long Open Working Time • Dries Light Tan • Non-toxic • Acid-Free
8oz. .....P/N 02-00101 ..... ---
Single use (4 tubes).....P/N 02-00225 ..... ---

T-88 STRUCTURAL ADHESIVE

T-88 is a non-brittle structural adhesive which gives superior finished results even when used under adverse working conditions. T-88 will cure in temperatures as low as 35°F which makes it an excellent choice for homebuilders living in colder climates. It is recommended by the builders of many types of homebuilt aircraft and is excellent for bonding aluminum, steel or wood. When fully cured, it is not affected by water, oil, gasoline and most other chemicals.

1/2 Pt Kit.. P/N 02-00046 ..... --- Pt. Kit..... P/N 02-00047 ..... ---
Qt. Kit ..... P/N 02-00048 ..... --- Gal. Kit.... P/N 02-00049 ..... ---

T-88 UNIVERSAL CARTRIDGES

With the Universal Cartridge any medium to high quality caulking gun will work just fine. When you evaluate the Universal Cartridge notice that without a mixture tip it is perfect for accurately measuring small batches of adhesive. This is something that is very hard to do in a mixing cup without generating a lot of waste. Of course when the cartridge is used with the mixing tip you get both accurate measuring and thorough mixing making large, continuous gluing jobs much easier with flawless products performance. **Note**: Cartridge includes one mixing tube. Extra mixing tubes and caps are sold separately.
P/N 02-00103 ..... ---

REDI-MIX MIXER TUBE

The static mixer tube attaches to the cartridge with a retaining nut which screws on securely to the REDIMIX gun. The mixer tip tapers to 1/8" but may be cut back to about 1/4". Very small quantities of epoxy may be prepared in this manner without any waste or added cost.. P/N 02-90030 ..... ---

SCOTCH WELD 3M™ STRUCTURAL ADHESIVE

Commonly known as "Scotch Weld", this two part epoxy structural adhesive will bond wood, metal, plastics and rubber. It has a pot life of nearly 2 hours after mixing, and a 24 month shelf life. Forms flexible yet very strong bonds.
Color:Gray. 2 oz. kit .....P/N 02-00045 ..... ---

QUIK FIX EPOXY PUTTY STICKS

Quikfix BC 101 is a hand mixable, fast curing, general purpose epoxy putty stick that mixes in just one minute to provide fast repairs to many surfaces including metals, wood, glass, concrete, ceramics and numerous plastics. One hour after mixing, QuikFix BC 101 can be drilled, sawed, sanded, filed, tapped, machined, or painted. Color: Gray (after cure).
3.5" stick .....P/N 01-00333 ..... ---
7" stick .....P/N 01-00332 ..... ---

BOND-AIDE WOOD EPOXY PUTTY

Bond-Aide P-1500W is a wood epoxy putty compound that cures in minutes to form permanent repairs on woods, plaster, ceramics and many plastics with no shrinkage. Excellent for bonding wood to wood, wood to metal, and wood to glass or ceramics. P-1500W has a multitude of uses in aircraft restoration, rebuilding, and repair.
1 tube 2-part Bond-Aide P-1500W.....P/N 02-18650 ..... **---/ea**

G/FLEX EPOXY ADHESIVE

A toughened, versatile, liquid epoxy for permanent waterproof bonding of fiberglass, ceramics, metals, plastics, damp and difficult-to-bond woods. Modulus of elasticity of 150,000 PSI. Can absorb the stress of expansion, contraction, shock and vibration. Can be modified with West System fillers and additives, and used to wet-out fiberglass tapes and fabrics. Mixed at a 1:1 ratio, G/flex gives you 45 minutes of working time at room temperature. It reaches an initial cure in 7 to 10 hrs and full cure in 24 hrs.
Epoxy Adhesive.....P/N 01-01162 ..... ---
650-K Epoxy Kit - Contains 4 fl. oz. G/flex 650 resin, 4 fl. oz. G/flex 650 hardener (8 fl. oz. mixed epoxy), 2 reusable mixing stick/applicators, 2 12-cc syringes, 4 grams Adhesive Filler, 4 mixing cups, 1 pair disposable neoprene gloves, 4 alcohol cleaning pads and complete handling and repair instructions. .....P/N 01-01161 ..... ---
655-K Epoxy Repair Kit - Contains 4.5 fl. oz. G/flex 655 resin, 4.5 fl. oz. G/flex 655 hardener (9 fl. oz. of mixed epoxy), 2 reusable mixing stick/applicators, 4 alcohol cleaning pads, 1 pair disposable neoprene gloves, 10 mixing palettes and complete handling and repair instructions.
.....P/N 01-01163 ..... ---

3M™ SCOTCH-WELD™ EPOXY ADHESIVE DP420 50ML DUO-PAK

3M™ Scotch-Weld™ Epoxy Adhesive DP420 is a toughened, two-part epoxy structural adhesive that provides good strength along with high impact and fatigue resistance to meet demanding bonding challenges. 3M™ Scotch-Weld Epoxy Adhesive DP420 can replace mechanical fasteners, screws, rivets and spot welds in many applications.....P/N 09-06060 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PTM&W ES6279 AEROPOXY EPOXY ADHESIVE

Manufactured by PTM & W Industries, Inc. ES6279 is a light grayish-tan two part adhesive that was developed specifically for difficult bonding problems involving similar or dissimilar materials. ES6279 provides excellent adhesion to a wide variety of materials such as aluminum, steel, brass, glass, ceramics, and wood. The mix ratio of 1 to 1 by weight or volume allows easy measuring, and the creamy, smooth viscosity allows easy, uniform application. The cured material has excellent strength as well as good resistance to weak acids, moisture, and weather. ES6279 has been used successfully for many years in a variety of general bonding uses as well as numerous production applications.

Part No.	Description	Wt. (lbs.)	Price
02-30015	1/2 quart part A only	3.0	---
02-30020	1/2 quart part B only	3.0	---
02-30025	ES6279 QUART KIT	6.0	---
02-30030	1/2 gallon part A only	12.0	---
02-30035	1/2 gallon part B only	12.0	---
02-30040	ES6279 GALLON KIT	24.0	---
02-30045	1/2 pail part A only	60.0	---
02-30050	1/2 pail part B only	60.0	---
02-30055	ES6279 PAIL KIT	120.0	---

PTM&W ES6209 AEROPOXY STRUCTURAL ADHESIVE

ES6209 is a translucent, straw colored two component epoxy adhesive with a thick, liquid consistency. ES6209 is an excellent structural adhesive for use when good flow and surface wetting are required. Though pourable it has a controlled flow viscosity to minimize run-out from the adhesive joint. The 1 to 1 combining ratio by weight or volume makes it easy to measure and mix. The working time of over an hour provides plenty of time to coat and assemble the materials to be bonded. ES6209 has excellent adhesion to composite and metal parts typically used in kitplane construction. It bonds rigid foam, wood, ceramics, fiberglass and most metals with ease.

Quart Kit .....P/N 01-00295 ..... ---

ES6247 HIGH PEEL STRENGTH EPOXY ADHESIVE KITS

ES6247 is a two component toughened epoxy adhesive with very good cured properties that provides excellent bonds to a variety of substrates. Its blend of high lap shear and T-Peel values allow superior performance in demanding bonding applications. ES6247 adheres very well to wood, metal, composites and some plastics. The bonded components exhibit tough and durable performance for long term stability in use.

Qt. Kit .....P/N 01-01595 ..... ---
Gal. Kit.....P/N 01-01596 ..... ---

DOW CORNING #739 PLASTIC BONDING SILICONE ADHESIVE

Dow DOWSIL™ 739 Plastic Adhesive Black is a one-component, room temperature curing, silicone adhesive that is used for sealing, wedge bonding, repairs, and general-purpose applications. It offers high elongation, no flow, fast in-line processing, flame resistant, and requires no mixing .....P/N 09-05663 ..... ---

METAL SET A4 ALUMINUM FILLED EPOXY ADHESIVE

Metalset A4® is a powerful epoxy adhesive that has been used for years by all branches of the U.S. Military as well as every major airline and auto manufacturer in the world. A4 is used for hundreds of industrial bonding applications and offers excellent adhesion to porous or non-porous surfaces. It can be applied to vertical surfaces without sagging and cures overnight with negligible shrinking. Once cured, A4 offers good machining qualities (sanding, drilling, tapping), and resists alkalies, dilute acids and solvents. Applications include stopping leaks in pipes, valves and tanks (i.e. car gas tanks), bonding like and unlike surfaces, filling metal joints, dents, etc., anchoring bolts in wood, concrete, and repairing metal surfaces.

6 oz tube - 16 hour cure time.....P/N 02-00220 ..... ---
11 oz tube.....P/N 02-00233 ..... ---

PTM&W ES6228 METAL BONDING ADHESIVE

ES6228 is a thin paste viscosity epoxy adhesive designed to provide good bonds to metal surfaces. A unique feature of ES6228 is its ability to bond to slightly oily metal surfaces. This is useful in situations where the complete removal of residual mill oil on metal surfaces is not possible. The thin paste consistency of ES6228 wets the metal surface well, for good adhesion. This viscosity also provides some gap filling capabilities, so "close-fitting" joints are adequate, and matched-metal joints are not required. ES6228 has a 1:1 mix ratio, by weight or volume, for easy measuring. The white resin and black hardener combine to a smooth gray system that is easy to mix and apply, The cured material has very good properties, with high bond strength and elongation, for tough durable assemblies.

Quart Kit (4.5 lbs) .....P/N 01-00415 ..... ---
Gallon Kit (18 lbs).....P/N 01-00414 ..... ---

Product Specifications	ES6228-A Resin	ES6228-B Hardener	Test Method
Color	White	Black	Visual
Viscosity,cps	Thin Paste	Thin Paste	ASTM D2393
Specific Gravity	1.32	1.30	ASTM D1475
Density Lb./cu.in.	.0477	.0470	ASTM D792
Mix ratio	100:100 by weight or volume		PTM & W

SYSTEM THREE ROTFIX

Rotfix is an easy-to-use, low viscosity epoxy wood restoration system for consolidation of rotted, deteriorated, dried out, or spongy wood. It creates a strong water-resistant base for repair and restoration. Penetrates deep into wood for maximum strength. Use with Sculpwood for permanent structural repair or severely damaged wood. Kit includes 16 oz. measuring/application bottle.

1.5 pint (24 oz.) Kit.....P/N 02-90050 ..... **---/ea**

SYSTEM THREE SCULPWOOD 2 PINT KIT

SculpWood Putty is a two-component, solvent-free, kneadable epoxy. It is moldable, carvable, lightweight, strong, and exhibits excellent adhesion to a variety of substrates. It is easily sanded and will accept paint, screws and nails. 2 pint (32 oz.) Kit .P/N 02-90055 ..... **---/ea**

SYSTEM THREE QUICK CURE EPOXY

Quick Cure is a 5 min. epoxy from System Three which bonds wood, metals, fiberglass, ceramics, plastics and glass. Excellent for making quick repairs, as it hardens in 5 minutes at room temperature. Mixing ratio: 1 to 1. Not recommended for applications in excess of 200°F.

Pint Kit.....P/N 02-30060 ..... ---
Quart Kit .....P/N 02-30065 ..... ---

GORILLA SUPER GLUE

Its high strength and quick set time make Gorilla Super Glue the go-to for a variety of household projects. Developed for long-lasting repairs in an instant, Gorilla Super Glue is formulated with tiny rubber particles for increased impact resistance. We call it Impact-Tough® because it stands up to wear and tear unlike any other instant glue. Gorilla Super Glue Gel is an easy-to-use, thicker and more controlled formula great for multiple surfaces and vertical applications.

Super Glue .....P/N 09-04093 ..... ---
Super Glue Gel.....P/N 09-04094 ..... ---

METLWELD EPOXY ADHESIVE

MetlWeld is a 2-part, equal volume ratio, room temperature curing epoxy adhesive. MetlWeld develops strength earlier than other comparable 1:1 systems and may be used at temps. as low as 50˚F. Metal to be bonded should be freshly sanded and clean from grease, wax, oil and other contaminants. Allow 48 hours min. to cure and develop strength at 77˚F (longer at cooler temps.) before subjecting to stress. Bonds plain & anodized aluminum, glazed & unglazed ceramic; concrete; copper; glass; galvanized and stainless steel; neoprene rubber and most porous materials. Does not bond acrylic, polyethylene, polypropylene, polystyrene or vinyl plastics.

1/2 Pint Kit.....P/N 01-00406 ..... ---
Quart Kit .....P/N 01-00408 .....---

4130 STRUCTURAL TUBING

4130 ALLOY STEEL ROUND SEAMLESS TUBING MIL-T-6736 NORMALIZED /ANNEALED

(SOLD IN PRE-CUT LENGTHS)

4130 is a chromium-molybdenum general purpose alloy steel tubing that is weldable and is capable of developing good strength. It has been for years the standard of the aircraft industry. Tensile Strength: 90,000 PSI. The stock sizes listed below can be furnished in lengths from 1 foot to 12 feet. Large orders are filled in random lengths from 10 to 12 feet unless specific lengths are requested. No charge is made for cutting stock sizes of tubing to mailable length. Quotations furnished on unlisted sizes.

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER.
PLEASE INDICATE AT TIME OF ORDER

ME

O.D. (In.)	Wall Thickness	I.D. (In.)	Wt. Per Ft.	Part No.	Price Per Ft.
3/16	.035	.131	.0478	03-00183	---
1/4	.028	.194	.0672	03-00250	---
	.035	.180	.0804	03-00300	---
	.049	.152	.1052	03-00400	---
	.058	.134	.1189	03-00500	---
	.065	.120	.1284	03-00510	---
5/16	.028	.256	.0852	03-00600	—
	.035	.243	.1039	03-00700	---
	.049	.215	.1382	03-00800	---
	.058	.196	.1580	03-00810	---
	.065	.182	.1722	03-00900	---
	.095	.123	.2212	03-01000	---
3/8	.028	.319	.1038	03-01100	---
	.035	.305	.1271	03-01200	---
	.049	.277	.1706	03-01300	---
	.058	.259	.1964	03-01400	---
	.065	.249	.2152	03-01500	---
	.083	.209	.2588	03-01600	---
	.095	.185	.2841	03-01610	---
7/16	.035	.367	.1506	03-01700	---
	.049	.340	.2036	03-01800	---
	.058	.125	.236	03-00067	---
	.065	.307	.2589	03-02000	---
	.095	.247	.3480	03-02100	---
	.120	.197	.4075	03-02200	---
1/2	.028	.444	.1411	03-02300	---
	.035	.430	.1738	03-02400	---
	.049	.402	.2360	03-02500	---
	.058	.384	.2738	03-02600	---
	.065	.370	.3020	03-02700	---
	.083	.334	.3696	03-02710	---
	.095	.310	.4109	03-02800	---
	.120	.260	.4870	03-02900	---
9/16	.035	.492	.1974	03-03000	---
	.049	.464	.2690	03-03100	---
	.065	.432	.3457	03-03200	---
	.120	.322	.5677	03-03400	---
5/8	.028	.569	.1785	03-03500	---
	.035	.555	.2205	03-03600	---
	.049	.527	.3014	03-03700	---
	.058	.509	.3512	03-03800	---
	.065	.495	.3888	03-03900	---
	.095	.435	.5377	03-04000	---
	.120	.385	.6472	03-04100	---
	.156	.313	.7814	03-04110	---
3/4	.028	.694	.2159	03-04250	---
	.035	.680	.2673	03-04300	---
	.049	.652	.3668	03-04400	---
	.058	.634	.4287	03-04500	---
	.065	.620	.4755	03-04600	---
	.095	.560	.6646	03-04700	---
	.120	.510	.8074	03-04800	---
	.156	.437	.9897	03-04900	---
	.188	.375	1.128	03-05000	---
7/8	.035	.805	.3140	03-05300	---
	.049	.777	.4323	03-05400	---
	.058	.759	.5061	03-05500	---
	.065	.745	.5623	03-05600	---
	.083	.709	.7021	03-05700	---
	.095	.685	.7914	03-05800	---
	.120	.635	.9676	03-05900	---
	.188	.500	1.379	03-06000	---

Please call for price on any unlisted size.
Discount of 10% for 100 ft. or more of the same part number.

O.D. (In.)	Wall Thickness	I.D. (In.)	Wt. Per Ft.	Part No.	Price Per Ft.
1	.028	.944	.2907	03-06110	---
	.035	.930	.3607	03-06100	---
	.049	.902	.4977	03-06200	---
	.058	.884	.5835	03-06300	---
	.065	.870	.6491	03-06400	---
	.083	.834	1.0	03-06450	---
	.095	.810	.9182	03-06500	---
	.120	.760	1.128	03-06600	---
	.156	.687	1.406	03-06700	---
	.188	.625	1.630	03-06800	---
1-1/8	.035	1.055	.4074	03-06900	---
	.049	1.027	.5631	03-07000	---
	.058	1.009	.6609	03-07100	---
	.065	.995	.7359	03-07200	---
	.095	.935	1.045	03-07300	---
	.120	.885	1.288	03-07400	---
1-1/4	.035	1.180	.4542	03-07500	---
	.049	1.152	.6285	03-07600	---
	.058	1.134	.7384	03-07700	---
	.065	1.120	.8226	03-07800	---
	.083	1.084	2.132	03-07810	---
	.095	1.060	1.172	03-07900	---
	.120	1.010	1.448	03-08000	---
	.156	.938	1.823	03-08100	---
1-3/8	.035	1.305	.5009	03-08210	---
	.049	1.277	.6939	03-08200	---
	.058	1.259	.8158	03-08300	---
	.065	1.245	.9094	03-08400	---
	.095	1.185	1.299	03-08500	---
	.120	1.135	1.609	03-08600	---
	.188	1.000	2.383	03-08700	---
1-1/2	.035	1.430	.5476	03-08800	---
	.049	1.402	.7593	03-08900	---
	.058	1.384	.8932	03-09000	---
	.065	1.370	.9962	03-09100	---
	.083	1.334	1.256	03-09110	---
	.095	1.310	1.426	03-09200	---
	.120	1.260	1.769	03-09300	---
	.188	1.125	2.634	03-09400	---
1-5/8	.058	1.509	.9707	03-09600	---
	.065	1.495	1.083	03-09700	---
	.083	1.459	1.10	03-00042	---
	.095	1.435	1.552	03-09800	---
	.120	1.385	1.929	03-09900	---
	.156	1.312	2.447	03-10000	---
	.188	1.250	2.885	03-10100	---
1-3/4	.049	1.652	.8902	03-10200	---
	.058	1.634	1.048	03-10210	---
	.065	1.620	1.170	03-10300	---
	.095	1.560	1.679	03-10400	---
	.120	1.510	2.089	03-10500	---
	.188	1.375	3.136	03-10510	---
1-7/8	.250	1.375	2.249	03-10600	---
2	.049	1.902	1.021	03-10710	---
	.065	1.870	1.343	03-10800	---
	.095	1.810	1.933	03-10900	---
	.120	1.760	2.409	03-11000	---
	.188	1.625	3.638	03-00193	---
2-1/4	.120	2.010	2.730	03-11100	---
2-1/2	.095	1.81	1.933	03-11150	---
	.250	2.000	6.008	03-11206	---
	.120	2.260	3.050	03-11200	---
	.125	2.510	3.370	03-11210	---

Available in 1', 2', 3', 4', 5', 6', 8', 10' and 17' pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number.

Example: A 3 ft. length of tubing is p/n 03-00183-3.

4130 TUBING KITS

We furnish complete 4130 tubing kits for a variety of aircraft designs including the Skybolt, Pitts Special, Acro Sport, Starduster, Osprey, and many more. The kits contain sufficient round, square, & streamline tubing to produce the pieces shown on our materials list for each design. We urge the builder to verify his own materials list against ours. Request kit list you require & current quotation. Enjoy big savings by purchasing a complete tubing kit for your aircraft at one time.

BARGAIN BAG 4130 TUBING

Starter Kit - An assortment of 4130 tubing, rod and bar in short lengths to practice welding. At least 15 ft. of tubing in assorted sizes and wall thicknesses. Furnished subject to availability of cutoffs.

P/N 03-15900 ..... ---

STEEL TUBING & ROD

4130 STREAMLINE TUBING MIL-T6736 NORMALIZED

(SOLD IN PRE-CUT LENGTHS)

The prices for streamline tubing have increased sharply. The only manufacturer of streamline tubing, Columbia Summerill, have encountered problems with cracking on the trailing edge intermittently for many years and it has been a worrisome problem for builders. In an effort to control the situation, Columbia Summerill have installed sophisticated inspection equipment in their plant to assure that no cracked tubing gets into the field again. The cost of the equipment is reflected in the prices for the tubing which must be shared by all.

Major Axis	Minor Axis	Wall	Equivalent		Wt./ Ft.	Part No.	Price Per Ft.
			Round Tension	Tubing Compr.			
1.150	.745	.035	7/8	7/16	0.314	03-00232	---
1.180	.500	.035	7/8”	7/16”	.3140	03-11400	---
1.30	.600	.049	1	5/8	0.498	03-00233	---
1.349	.571	.049	1”	5/8”	.4977	03-11500	---
1.645	.740	.049	1-1/4	3/4	0.629	03-00234	---
1.685	.714	.049	1-1/4”	3/4”	.6285	03-11600	---
1.990	.870	.049	1-1/2	1	0.759	03-00235	---
2.023	.857	.049	1-1/2”	1”	.7593	03-11700	---
2.360	.960	.049	1-3/4	1-1/8	0.890	03-00236	---
2.360	1.000	.049	1-3/4”	1-1/8”	.8902	03-11800	---
2.665	1.140	.065	2	1-1/2	1.343	03-00237	---
2.697	1.143	.065	2”	1-1/4”	1.021	03-00192	---
3.372	1.429	.049	2-1/2”	1-1/2”	1.283	03-12000	---

Available in 1’, 2’, 3’, 4’, 5’, 6’, 8’, 10’ and 17’ pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number.
Example: A 3 ft. length of tubing is p/n 03-00183-3.

4130 AIRFRAME SQUARE & RECTANGULAR TUBING MIL-T-6736 NORMALIZED

(SOLD IN PRE-CUT LENGTHS)

O.D. (In.)	Wall (In.)	Weight Per Ft.	Part No.	Price Per Ft.
1/2 x 1/2	.035	.2213	03-12200	---
1/2 x 1	.065	.6055	03-12350	---
5/8 x 5/8	.035	.2808	03-12400	---
	.049	.4234	03-12500	---
	.065	.388	03-12600	---
3/4 x 3/4	.035	.3403	03-12700	---
	.049	.4671	03-12800	---
	.065	.6055	03-13000	---
	.065	.7160	03-13300	---
1 x 1	.035	.4593	03-13400	---
	.049	.6337	03-13500	---
	.065	.8265	03-13700	---
3/4 x 1-1/2	.049	.9057	03-13900	---
1 x 1-3/4	.065	1.158	03-13950	---

Available in 1’, 2’, 3’, 4’, 5’, 6’, 8’, 10’ and 17’ pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number.
Example: A 3 ft. length of tubing is p/n 03-00183-3.

E-4340 ROUND STEEL ROD

SPEC. MIL-S-8503 COLD FINISHED ANNEALED (SOLD IN PRE-CUT LENGTHS)

E4340 rod has high fatigue strength and maintains its hardness and strength qualities even at high temperatures. Excellent for use in highly stressed parts. Meets AMS2032 and is furnished normalized and tempered cold finished.

Dia. (In.)	Wt./Ft. (Lbs.)	Part No.	Price Per Ft.
1	2.67	03-26700	---
1-1/4	4.173	03-26850	---
1-3/8	5.049	03-26900	---
2	11.20	03-26950	---

Available in 1’, 2’, 3’, 4’, 5’, 6’, 8’, 10’ and 17’ pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number.
Example: A 3 ft. length of tubing is p/n 03-00183-3.

STAINLESS STEEL TUBING

(SOLD IN PRE-CUT LENGTHS)

Tubing Type	O D.	Wall	Part No.	Price/Ft.
304 Welded	3/8”	.028”	03-16100	---
321 Welded	1-1/2”	.035”	03-16300	---
321 Welded	1- 3/4”	.035”	03-16400	---
321 Welded	2”	.035”	03-16500	---
304 Seamless	1/8	.020”	03-00148	---
304 Seamless	1/8”	.035”	03-16010	---
304 Seamless	3/16”	.035”	03-16020	---
304 Seamless	1/4”	.035”	03-16030	---
304 Seamless	5/16”	.035”	03-16040	---
304 Seamless	3/8”	.035”	03-16045	---
304 Seamless	1/2”	.035”	03-16050	---
304 Seamless	5/8”	.035”	03-16060	---
321 Seamless	1-1/4”	.028”	03-16540	---
321 Seamless	1-1/2”	.035”	03-16560	---

Available in 1’, 2’, 3’, 4’, 5’, 6’, 8’, 10’ and 17’ pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number.
Example: A 3 ft. length of tubing is p/n 03-00183-3.

BUSHING STOCK 1015/1020 STEEL

Seamless mechanical tubing may be used either statically or dynamically. Its close tolerance, good finish and dense structure make it ideal for parts such as shafts, bushings, bearings, etc. Tensile strength 80,000 PSI. Drill or ream for proper bolt fit.

SPECIFY CUTTING INSTRUCTIONS FOR SHIPMENT

O.D.	I.D.	Wall	Part No.	Price Per Ft.
3/8”	1/4”	.065”	03-16700	---
1/2”	3/8”	.065”	03-16900	---

ROUND BRASS SEAMLESS TUBING

O.D.	I.D	Wall	Part No.	Price Per Ft.
1 /4”	3/16”	.032”	03-17300	---
7 / 16”	5/16”	.065”	03-17600	---
1/ 2”	3/8”	.065”	03-17800	---

4130 ROUND STEEL ROD COLD FINISHED

SPEC. MLL-S-6758A-NORMALIZED (SOLD IN PRE-CUT LENGTHS)

Dia (In.)	Wt./Ft.	Part No.	Price Per Ft.
1/8	.042	03-20100	---
3/16	.092	03-20200	---
1/4	.167	03-20300	---
5/16	.261	03-20400	---
3/8	.376	03-20500	---
7/16	.511	03-20600	---
1/2	.668	03-20700	---
9/16	.845	03-20800	---
5/8	1.043	03-20900	---
3/4	1.502	03-21000	---
7/8	2.044	03-21100	---
1	2.670	03-21200	---
1-1/4	4.173	03-21300	---
1-3/8	5.049	03-21400	---
1-1/2	6.008	03-21500	---
1-3/4	8.178	03-21600	---

Available in 1’, 2’, 3’, 4’, 5’, 6’, 8’, 10’ and 17’ pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number.
Example: A 3 ft. length of tubing is p/n 03-00183-3.

STAINLESS STEEL ROD TYPE 304 CD

3/16” Diameter type 304 CD stainless steel rod. Used in “new canard” for Long-EZ as specified by RAF.....P/N 03-26600 .....**---/ft.**

3/8” PIPER CHANNEL

Available in mild steel. 0.020” thick.
6-ft. length .....P/N 05-04564 ..... **---**

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER. PLEASE INDICATE AT TIME OF ORDER.

4130 SHEET

4130 STEEL SHEETS & STRIPS MIL-S-6345A NORMALIZED

This chromium-molybdenum alloy is one of the most widely used aircraft steels because of its combination of weldability, ease of fabrication and mild hardenability. It will respond to heat treatment to high strength levels and yet, in the annealed condition, it has adequate strength for many applications. Used for the manufacture of parts and components. Tensile strength 75,000-85,000 PSI. Furnished cold-rolled and oiled in sheet thicknesses of .025-.125 inch. Sheets of .190-.250 inch and greater thickness are hot-rolled, pickled and oiled. Sheared to sheet and strip sizes listed below. Subject to availability of normalized sheet, annealed 4130 sheet may be substituted.

4130 STEEL SHEET

Thickness (In.)	Price per Piece												
	6" x 12'		9" x 9"		9" x 18"		18" x 18"		18" x 36"		18" x 72"		Wt.**
	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	(Lbs.)
.025	03-21800	---	03-21850	---	03-21900	---	03-22000	---	03-22100	---	03-22150	---	2.30
.032	03-22510	---	03-22515	---	03-22520	---	03-22525	---	03-22530	---	03-22535	---	---
.040	03-22600	---	03-22650	---	03-22700	---	03-22800	---	03-22900	---	03-22950	---	3.75
.050	03-23000	---	03-23050	---	03-23100	---	03-23200	---	03-23300	---	03-23350	---	4.80
.063	03-23400	---	03-23450	---	03-23500	---	03-23600	---	03-23700	---	03-23750	---	5.85
.071	03-23800	---	03-23850	---	03-23900	---	03-24000	---	03-24100	---	03-24150	---	6.55
.080	03-24200	---	03-24250	---	03-24300	---	03-24400	---	03-24500	---	03-24550	---	7.15
.090	03-24600	---	03-55500	---	03-24700	---	03-24800	---	03-24900	---	03-24950	---	8.15
.100	03-25000	---	---	---	03-25100	---	03-25200	---	03-25300	---	03-25350	---	10.45
.125	03-55300	---	03-25370	---	03-25400	---	03-25500	---	03-25600	---	---	---	11.25
.190	---	--	03-25660	---	03-25700	---	03-25750	---	03-26025	---	---	---	17.50
.250	---	---	03-25850	---	03-25900	---	03-25950	---	03-26050	---	03-00106	---	94.00

**** Wt. per 18" x 18" sheet.**

Less 10% discount on 6 sheets 18" x 36" or 3 sheets of 18" x 72" per part number.

4130 STEEL STRIPS

Thickness	Size	Part No.	Price*
.025	5/8" x 72"	03-18000-6	---
.025	1" x 72"	03-18100-6	---
.032	5/8" x 72"	03-18110-6	---
.032	1" x 72"	03-18120-6	---
.032	2" x 72"	03-18130-6	---
.032	3" x 72"	03-18140-6	---
.040	5/8" x 72	03-18200-6	---
.040	1" x 72"	03-18300-6	---
.040	2" x 72"	03-18310-6	---
.040	3" x 72"	03-18320-6	---
.050	1" x 72"	03-18400-6	---
.050	2" x 72"	03-18410-6	---
.050	3" x 72"	03-18420-6	---
.063	5/8" x 72"	03-18500-6	---
.063	3/4" x 72"	03-18600-6	---
.063	1" x 72"	03-18700-6	---
.063	1-1/4" x 72"	03-18800-6	---
.063	1-1/2" x 72"	03-18900-6	---
.063	2" x 72"	03-19000-6	---
.063	3" x 72"	03-19100-6	---
.071	5/8" x 72"	03-19180-6	---
.071	1" x 72"	03-19200-6	---
.071	2" x 72"	03-19210-6	---
.071	3" x 72"	03-19220-6	---
.080	5/8" x 72"	03-19280-6	---
.080	1" x 72"	03-19290-6	---
.080	2" x 72"	03-19300-6	---
.090	1" x 72"	03-19400-6	---
.090	1-1/2" x 72"	03-19500-6	---
.090	2" x 72"	03-19520-6	---
.090	3" x 72"	03-19600-6	---
.100	1" x 72"	03-19610-6	---
.100	1-1/2" x 72"	03-19620-6	---
.100	3" x 72"	03-19630-6	---
.125	1" x 72"	03-19700-6	---
.125	1-1/2" x 72"	03-19800-6	---
.125	2" x 72"	03-19820-6	---
.125	3" x 72"	03-19900-6	---
.250	1-1/4" x 18"	03-20000	---

*** 3-Ft. lengths available at the half price of 6' lengths.**

6 ft. lengths are subject to UPS oversize charges. Consider 3 ft. lengths which ship at cheaper rates

4130 STEEL SHEET

(As Used in Christavia Kits)

Thickness	Size	Part No.	Price
.040	8" x8"	03-56302	---
.040	12" x 12"	03-56304	---
.040	12" x 20"	03-56316	---
.040	10" x 26'	03-56312	---
.040	12" x 24"	03-56306	---
.040	14" x 30"	03-56308	---
.040	18" x30"	03-56310	---
.040	24" x 24"	03-56314	---
.050	4" x 24"	03-56320	---
.050	12" x 12"	03-56318	---
.050	8" x 24"	03-56322	---
.050	12" x 24"	03-56324	---
.063	10" x 10"	03-56326	---
.063	10" x 14"	03-56332	---
.063	12" x 12"	03-56328	---
.063	12" x 24"	03-56330	---
.071	4" x 4"	03-56334	---
.071	12" x 12"	03-56336	---
.071	12" x 24"	03-56338	---
.080	2" x 10"	03-56354	---
.080	12" x 24"	03-56340	---
.090	2" x 10"	03-56344	---
.090	6" x 8"	03-56342	---
.090	12" x 24"	03-56346	---
.125	10" x 24"	03-56348	---
.125	12" x 24"	03-56350	---

WELD BRUSH

Stainless steel bristles set in curved wooden handle. Just right for cleaning welds. 1/2" Wide x 8" Long..... P/N 12-06466 .....

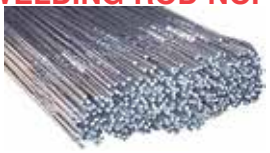
E4340 RECTANGULAR FLAT STEEL

SPEC. MIL-S-5000 ANNEALED

This chromium-nickel-molybdenum alloy, "king" of the hardening grades of alloy steels, possesses much deeper hardenability than the 4100 series. The fatigue-tensile ratio makes it ideal for highly stressed parts such as landing gear legs, and is often referred to as "spring steel". Tensile strength is about 110,000 PSI. It is difficult to weld but can be welded by any of the common welding processes providing the section is preheated and stress relieved after welding.

Size (In.)	Wt./Ft (Lbs.)	Part No.	Price/Ft.
1/4 x 1-1/2	1.275	03-26100	---
1/4 x 2	1.702	03-26150	---
3/8 x 2	2.550	03-26200	---
1/2 x 3	5.100	03-26300	---
1/2 x 4	6.800	03-26400	---

WELDING ROD NO. 7



For big-strength welds in steel plate, sheet, structural shapes, pipe and steel castings. Supplied in 36" lengths in sizes 1/16", 3/32" and 1/8".

NO. 7 – Used in general commercial welding and by many mechanics for non-heat-treated airframe repairs.
1/16" Dia..... P/N 03-27300 .....**---/lb.**
1/8" Dia..... P/N 03-27500 .....**---/lb**

ESAB SPOOLARC 83 TIGROD - Contains 0.5% Mo to provide higher deposit strength in both the as welded and stress relieved conditions. It contains high levels of Manganese and Silicon to provide good wetting and good rust and scale tolerance. ..... P/N 03-00255 .....**---/lb.**

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER.
PLEASE INDICATE AT TIME OF ORDER

ALUMINUM – THE MOST COMMON GRADES

1100 This grade is commercially pure aluminum. It is soft and ductile and has excellent workability. It is ideal for applications involving intricate forming because it work hardens more slowly than other alloys. It is the most weldable of aluminum alloys, by any method. It is non heat-treatable. It has excellent resistance to corrosion and is widely used in the chemical and food processing industries. It responds well to decorative finishes which make it suitable for giftware.

2011 This is the most free-machining of the common aluminum alloys. It also has excellent mechanical properties. Thus, it is widely used for automatic screw machine products in parts requiring extensive machining.

2014 & 2017 The 2017 alloy combines excellent machinability and high strength with the result that it is one of the most widely used alloys for automatic screw machine work. It is a tough, ductile alloy suitable for heavy-duty structural parts. Its strength is slightly less than that of 2014.

2024 This is one of the best known of the high strength aluminum alloys. With its high strength and excellent fatigue resistance, it is used to advantage on structures and parts where good strength-to-weight ratio is desired. It is readily machined to a high finish. It is readily formed in the annealed condition and may be subsequently heat treated. Arc or gas welding is generally not recommended, although this alloy may be spot, seam or flash welded. Since corrosion resistance is relatively low, 2024 is commonly used with an anodized finish or in clad form ("Alclad") with a thin surface layer of high purity aluminum. Applications: aircraft structural components, aircraft fittings, hardware, truck wheels and parts for the transportation industry.

3003 This is the most widely used of all aluminum alloys. It is essentially commercially pure aluminum with the addition of manganese which increases the strength some 20% over the 1100 grade. Thus, it has all the excellent characteristics of 1100 with higher strength. It has excellent corrosion resistance. It has excellent workability and it may be deep drawn or spun, welded or brazed. It is non heat treatable. Applications: cooking utensils, decorative trim, awnings, siding, storage tanks, chemical equipment.

5005 This alloy is generally considered to be an improved version of 3003. It has the same general mechanical properties as 3003 but appears to stand up better in actual service. It is readily workable. It can be deep drawn or spun, welded or brazed. It has excellent corrosion resistance. It is non heat-treatable. It is well suited for anodizing and has less tendency to streak or discolor. Applications same as 3003.

5052 This is the highest strength alloy of the more common non heat-treatable grades. Fatigue strength is higher than most aluminum alloys. In addition this grade has particularly good resistance to marine atmosphere and salt water corrosion. It has excellent workability. It may be drawn or formed into intricate shapes and its slightly greater strength in the annealed condition minimizes tearing that occurs in 1100 and 3003. Applications: Used in a wide variety of applications from aircraft components to home appliances, marine and transportation industry parts, heavy duty cooking utensils and equipment for bulk processing of food.

5083 & 5086 For many years there has been a need for aluminum sheet and plate alloys that would offer, for high strength welded applications, several distinct benefits over such alloys as 5052 and 6061. Some of the benefits fabricators have been seeking are greater design efficiency, better welding characteristics, good forming properties, excellent resistance to corrosion and the same economy as in other non heat-treatable alloys. Metallurgical research has developed 5083 and 5086 as superior weldable alloys which fill these needs. Both alloys have virtually the same characteristics with 5083 having slightly higher mechanical properties due to the increased manganese content over 5086. Applications: unfired pressure vessels, missile containers, heavy-duty truck and trailer assemblies, boat hulls and superstructures.

6061 This is the least expensive and most versatile of the heat-treatable aluminum alloys. It has most of the good qualities of aluminum. It offers a range of good mechanical properties and good corrosion resistance. It can be fabricated by most of the commonly used techniques. In the annealed condition it has good workability. In the T4 condition fairly severe forming operations may be accomplished. The full T6 properties may be obtained by artificial aging. It is welded by all methods and can be furnace brazed. It is available in the clad form ("Alclad") with a thin surface layer of high purity aluminum to improve both appearance and corrosion resistance. Applications: This grade is used for a wide variety of products and applications from truck bodies and frames to screw machine parts and structural components. 6061 is used where appearance and better corrosion resistance with good strength are required.

6063 This grade is commonly referred to as the architectural alloy. It was developed as an extrusion alloy with relatively high tensile properties, excellent finishing characteristics and a high degree of resistance to corrosion. This alloy is most often found in various interior and exterior architectural applications, such as windows, doors, store fronts and assorted trim items. It is the alloy best suited for anodizing applications - either plain or in a variety of colors.

7075 This is one of the highest strength aluminum alloys available. Its strength-to weight ratio is excellent and it is ideally used for highly stressed parts. It may be formed in the annealed condition and subsequently heat treated. Spot or flash welding can be used, although arc and gas welding are not recommended. It is available in the clad ("Alclad") form to improve the corrosion resistance with the over-all high strength being only moderately affected. Applications: Used where highest strength is needed.

ALUMINUM ALLOY DESIGNATIONS

ALUMINUM ALLOY DESIGNATIONS

The aluminum industry uses a four-digit index system for the designation of its wrought aluminum alloys.

As outlined below, the first digit indicates the alloy group according to the major alloying elements.

1XXX SERIES

In this group. Minimum aluminum content is 99%. and there is no major alloying element.

The second digit indicates modifications in impurity limits. If the second digit is zero, there is no special control on individual impurities. Digits 1 through 9, which are assigned consecutively as needed, indicate special control of one or more individual impurities.

The last two digits indicate specific minimum aluminum content. Although the absolute minimum aluminum content in this group is 99% the minimum for certain grades is higher than 99%, and the last two digits represent the hundredths of a per cent over 99.

Thus, 1030 would indicate 99.30% minimum aluminum. Without special control on individual impurities. The designations 1130, 1230, 1330, etc. indicate the same purity with special control on one or more impurities. Likewise. 1100 indicates minimum aluminum content of 99.00% with individual impurity control.

2XXX THROUGH 9XXX SERIES

The major alloying elements are indicated by the first digit, as follows:

2xxx	Copper
3xxx	Manganese
4xxx	Silicon
5xxx	Magnesium
6xxx	Magnesium and silicon
7xxx	Zinc
8xxx	Other element
9xxx	Unused series

The second digit indicates alloy modification. If the second digit is zero, it indicates the original alloy: digits 1 through 9, which are assigned consecutively, indicate alloy modifications. The last two digits have no special significance, serving only to identify the different alloys in the group.

EXPERIMENTAL ALLOYS

Experimental alloys are designated according to the four digit system, but they are prefixed by the letter X. The prefix is dropped when the alloy becomes standard. During development, and before they are designated as experimental, new alloys are identified by serial numbers assigned by their originators. Use of the serial number is discontinued when the X number is assigned.

ALUMINUM TEMPER DESIGNATIONS

Temper designations of wrought aluminum alloys consist of suffixes to the numeric alloy designations. For example, in 3003-H14, 3003 denotes the alloy and “H14” denotes the temper, or degree of hardness. The temper designation also reveals the method by which the hardness was obtained. Temper designations differ between non heat-treatable alloys and heat-treatable alloys, and their meanings are given below:

NON HEAT-TREATABLE ALLOYS

The letter “H” is always followed by 2 or 3 digits. The first digit indicates the particular method used to obtain the temper, as follows:

— H1 means strain hardened only.

— H2 means strain hardened, then partially annealed.

— H3 means strain hardened, then stabilized.

The temper is indicated by the second digit as follows:

2	1/4 hard
4	1/2 hard
6	3/4 hard
8	full hard
9	extra hard

Added digits indicate modification of standard practice.

HEAT-TREATABLE ALLOYS

-F	As fabricated
-O	Annealed
-T	Heat treated

The letter “T” is always followed by one or more digits. These digits indicate the method used to produce the stable tempers, as follows:

-T3	Solution heat treated, then cold worked.
-T351	Solution heat treated, stress-relieved stretched, then cold worked.
-T36	Solution heat treated, then cold worked (controlled).
-T4	Solution heat treated, then naturally aged.
-T451	Solution heat treated, then stress relieved stretched.
-T5	Artificially aged only.
-T6	Solution heat treated, then artificially aged.
-T61	Solution heat treated (boiling water quench), then artificially aged.
-T651	Solution heat treated, stress-relieved stretched, then artificially aged (precipitation heat treatment).
-T652	Solution heat treated, stress relieved by compression. then artificially aged.
-T7	Solution heat treated, then stabilized.
-T8	Solution heat treated, cold worked, then artificially aged.
-T81	Solution heat treated, cold worked (controlled), then artificially aged.
-T851	Solution heat treated, cold worked, stress-relieved stretched, then artificially aged.
-T9	Solution heat treated, artificially aged, then cold worked.
-T10	Artificially aged, then cold worked.
	Added digits indicate modification of standard practice.

COMPARISON OF MODERN & OLD SYSTEMS OF ALUMINUM ALLOY DESIGNATION

Although the old system of aluminum identification has been obsolete for many years, stock with the old markings is still occasionally found. The following comparison is presented as an aid in identifying such materials in terms of the modern system.

In the old system, alloy composition was indicated by a one- or two-digit number followed by the letter “S” to indicate that it was a wrought alloy, i.e., an alloy that could be shaped by rolling, drawing or forging. Any variation in the basic composition was indicated by a letter preceding the numerical alloy designation. For example, A17S was a modification of the basic alloy 17S. In modern terminology these two alloys are designated 2117S and 2017S, respectively. Temper was designated by a second letter: “O” for soft (annealed), “H”for strain hardness of non heat-treatable alloys, and “T”for hardness of heat-treatable alloys. Degree of hardness of non heat-treatable alloys was indicated by a fraction preceding the letter “H”. For example, 3S1/4H would be quarter-hard 3S alloy.

The following Table gives examples of the old and modern designations of some common aluminum alloys.

Modern System	Old System
1100	2S
3003	3S
3003-0	3SO
2014	14S
2017	17S
2117	A17S
2018	18S
2218	B18S
2024T	24ST
5052	52S
7075T6	75ST6

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ALUMINUM PLATE & SHEET DATA

ALUMINUM ALLOY CHARACTERISTICS

Alloy		Temper	General Availability				Typical Characteristics*							Specified Mechanical Properties Where range is shown, property varies with specific width and/or thickness dimensions					
											Weldability			Tensile Strength - Ksi				Elongation in 2" or 4 times diameter-percent minimum	
														Ultimate		Yield			
			Flat Sheet	Coil Sheet	Cut to Length Sheet	Plate	Corrosion Resistance	Cold Workability	Machinability	Brazability	Gas	Arc Resistance, spot and steam		Minimum	Maximum	Minimum	Maximum	Sheet	Plate
Non-Heat Treatable Alloys	1100	O	X	X	X	-	A	A	D	A	A	A	B	11	15.5	3.51	-	15-30	-
		H14	X	X	X	-	A	A	C	A	A	A	A	16	21	141	-	3-9	-
		F	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
	3003	O	X	X	X	-	A	A	D	A	A	A	B	14	19	51	-	14-25	-
		H14	X	X	X	-	A	B	C	A	A	A	A	20	26	171	-	1-7	-
		F	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
	5052	O	X	X	X	-	A	A	D	C	A	A	B	25	31	9.51	-	15-20	-
		H32	X	X	X	X	A	B	C	C	A	A	A	31	38	231	-	4-9	11-12
		H34	X	X	X	-	A	B	C	C	A	A	A	34	41	261	-	3-7	-
Heat-Treatable Alloys	Bare 2024	O[3]	X	-	-	X	C	B	D	D	D	C	B	-	32	-	14	12	12
		T3	X	-	-	-	C	C	B	D	D	C	A	63-64	-	42	-	10-15	-
		T351	-	-	-	X	C	C	B	D	D	C	A	56-64	-	40-41	-	-	4-12
		T42[2]	-	-	-	-	C	C	B	D	D	C	A	58-62	-	38	-	12-15	4-12
	Alclad 2024	O[3]	X	X	-	X	A	B	D	D	D	C	B	-	30-32	-	14	10-12	12
		T3	X	-	-	-	A	D	B	D	D	C	A	58-63	-	39-40	-	10-15	-
		T351	-	-	-	x	A	D	B	D	D	C	A	56-63	-	40-41	-	-	4-8
		T42[2]	-	-	-	-	A	D	B	D	D	C	A	55-61	-	34-38	-	10-15	4-12
	6061	O[31]	X	X	-	X	A	A	D	A	A	A	B	-	22	12	12	10-18	16-18
		T4	X	-	-	-	A	C	C	A	A	A	A	30	-	16	-	10-16	-
		T6	X	-	-	-	A	C	C	A	A	A	A	42	-	35	-	4-10	-
		T651	-	-	-	X	A	C	C	A	A	A	A	40-42	-	35	-	-	6-10
		T42[2]	-	-	-	-	A	C	C	A	A	A	A	30	-	14	-	10-16	16-18
	Bare 7075	O[1]	X	-	-	-	C	D	D	D	D	D	B	-	40	-	21	10	-
		T6	X	-	-	-	C	D	B	D	D	D	B	76-77	-	65-66	-	7-8	-
		T651	-	-	-	X	C	D	B	D	D	D	B	67-77	-	53-66	-	-	2-8
	Alclad 7075	O[1]	X	X	-	-	A	B	C	D	D	D	B	-	36-39	-	20-21	9-10	-
		T6	X	-	-	-	A	D	B	D	D	D	B	68-75	-	58-64	-	5-8	-

Ratings A, B, C, D are relative in decreasing order of merit. weldability and brazability ratings are specifically defined as:

A - Generally weldable by all commercial procedures and methods.
B - Weldable with special technique or specific applications which justify preliminary trials or testing to develop welding procedure and weld performance.
C -Limited weldability because of crack sensitivity or loss on resistance to corrosion, and all mechanical properties.
D - No commonly used welding methods have so far been developed.

1 - These yield strengths not determined unless specifically requested.
2 - Although sheet and plate are not sold in this temper, material heat treated from any temper by the user should attain the mechanical properties applicable to this temper.
3 - Annealed (0 temper) material shall, upon heat treatment, be capable of developing the mechanical properties applicable to T 42 temper material.
4 - Annealed (0 temper) material shall, upon heat treatment and aging, be capable of developing the mechanical properties applicable to T 67 temper material.

APPROXIMATE MINIMUM RADIUS FOR 90° COLD BEND

Where range is shown, use smaller radius with extreme caution.

Alloy	Temper	RADIUS For Various Thicknesses Expresses in Terms of Thickness "t"							
		1/64 Inch	1/32 Inch	1/16 Inch	1/8 Inch	3/16 Inch	1/4 Inch	3/8 Inch	1/2 Inch
1100	-O	O	O	O	O	O	O	O	1t-2t
	-H12	O	O	O	O	O-1t	O-1t	O-1t	1t-3t
	-H14	O	O	O	O	O-1t	O-1t	O-1t	2t-3t
	-H16	O	O	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2-1/2t-3-1/2t	3t-4t
	-H18	O-1t	1/2-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	2t-4t	3t-5t	3t-6t
Alclad 2014	-O	O	O	O	O	O-1t	O-1t	1-1/2t-3t	3t-5t
	-T3	1t-2t	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-6t	5t-7t	5-1/2t-8t
	-T4	1t-2t	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-6t	5t-7t	5-1/2t-8t
	-T6	2t-4t	3t-5t	3t-5t	4t-6t	5t-7t	6t-10t	7t-10t	8t-11t
	-O[2]	O	O	O	O	O-1t	O-1t	1-1/2t-3t	3t-5t
2024	-T3[23]	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-6t	5t-7t	6t-8t	6t-9t
	-36[2]	2t-4t	3t-5t	4t-6t	5t-7t	5t-7t	6t-10t	7t-10t	8t-11t
	-T4[2]	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-6t	5t-7t	6t-8t	6t-9t
	-T81	3-1/2t-5t	4-1/2t-6t	5t-7t	6-1/2t-8t	7t-9t	8t-10t	9t-11t	9t-12t
	-T86	4t-5-1/2t	5t-7t	6t-8t	7t-10t	8t-11t	10t-13t	10t-13t	1t-2t
3003	-O	O	O	O	O	O	O	O	1t-2t
	-H12	O	O	O	O	O-1t	O-1t	O-1t	1t-3t
	-H14	O	O	O	O-1t	O-1t	1/2t-1-1/2t	1t-2-1/2t	1-1/2t-3t
	-H16	0-1t	01t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	1-1/2t-4t	3t-5t
	-H18	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-7t	5t-8t
5052	-O	O	O	O	O	O-1t	O-1t	1/2t-1-1/2t	1t-2t
	-H32	O	O	O	O-1t	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-2-1/2t
	-H34	O	O	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-3t	2-1/2t-3-1/2t
	-H36	0-1t	1/2t-1-1/2t	1t-2t	1-1/2t--3t	2t-4t	2t-4t	2-1/2t-5t	3t-5-1/2t
	-H38	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-7t	5t-8t
6061	-O	O	O	O	O	O-1t	O-1t	1/2t-2t	1t-1-1/2t
	-T4[2]	O-1t	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	2-1/2t-4t	3t-5t
	-T6[2]	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	3t-4t	3-1/2t-5-1/2t	4t-6t
7075	-O	O	O	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2-1/2t-4t	3t-5t
	-T6[2]	2t-4t	3t-5t	4t-6t	5t-7t	5t-7t	6t10t	7t-11t	7t-12t

1. Minimum permissible radius over which sheet or plate may be bent varies with nature of forming operation, type of forming equipment, and design and conditions of tools. Minimum working radius for a given material or hardest alloy and temper for a given radius can be ascertained only by actual trial under contemplated conditions of fabrication. Where range is shown, use a smaller radius with extreme caution.

2. Alclad sheet can be bent over slightly smaller radii than the corresponding tempers of the uncoated alloy.
3. Immediately after quenching, this alloy can be formed over appreciable smaller radii. 4217661360076962

ALUMINUM SHEET

Aluminum alloy sheet is sold in the thicknesses and sheet sizes shown in the table. Order by part number. No guarantee against scratches is possible due to the handling required to cut sheets to sizes shown.

CUTTING CHARGES: We can cut standard sheet sizes shown in the table to special sizes, but special order cutting charges will apply. Cutting Charges range from $20 to $50 or more depending on sizes desired and number of cuts. Special shapes are not cut, only straight edges. Request quote on Cutting Charges prior to order, as special cut pieces are not returnable.

Alloy & Temper	Surface Finish	Thickness (In.)	Wt./ Sq.Ft. (Lbs.)	Price Per Sheet									
				4' x 12'		4' x 8'		4' x 6'		4' x 4'		2' x 4'	
				Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
2024T3	Alclad	.016	.230	03-27710	---	03-27720	---	03-27730	---	03-27740	---	03-27750	---
		.020	.288	03-27810	---	03-27820	---	03-27830	---	03-27840	---	03-27850	---
		.025	.360	03-27910	---	03-27920	---	03-27930	---	03-27940	---	03-27950	---
		.032	.461	03-28010	---	03-28020	---	03-28030	---	03-28040	---	03-28050	---
		.040	.576	03-28110	---	03-28120	---	03-28130	---	03-28140	---	03-28150	---
		.050	.720	03-28210	---	03-28220	---	03-28230	---	03-28240	---	03-28250	---
		.063	.907	03-28310	---	03-28320	---	03-28330	---	03-28340	---	03-28350	---
		.071	1.02	03-28410	---	03-28420	---	03-28430	---	03-28440	---	03-28450	---
		.080	1.15	03-28510	---	03-28520	---	03-28530	---	03-28540	---	03-28550	---
		.090	1.30	03-28610	---	03-28620	---	03-28630	---	03-28640	---	03-28650	---
		.125	1.80	03-28710	---	03-28720	---	03-28730	---	03-28740	---	03-28750	---
		.160	-	03-70010	---	03-70020	---	03-70030	---	03-70040	---	03-70050	---
		.190	2.74	03-28810	---	03-28820	---	03-28830	---	03-28840	---	03-28850	---
	Bare	.250	3.60	03-28910	---	03-28920	---	03-28930	---	03-28940	---	03-28950	---
2024-0	Alclad	.032	.461	03-29010	---	03-29020	---	03-29030	---	03-29040	---	03-29050	---
		.040	.576	03-29110	---	03-29120	---	03-29130	---	03-29140	---	03-29150	---
6061T4	Bare	.025	.353	03-29210	---	03-29220	---	03-29230	---	03-29240	---	03-29250	---
		.032	.452	03-29310	---	03-29320	---	03-29330	---	03-29340	---	03-29350	---
		.040	.564	03-29410	---	03-29420	---	03-29430	---	03-29440	---	03-29450	---
		.050	.706	03-29510	---	03-29520	---	03-29530	---	03-29540	---	03-29550	---
		.063	.889	03-29610	---	03-29620	---	03-29630	---	03-29640	---	03-29650	---
		.080	1.13	03-29710	---	03-29720	---	03-29730	---	03-29740	---	03-29750	---
		.125	1.76	03-29810	---	03-29820	---	03-29830	---	03-29840	---	03-29850	---
6061T6	Bare	.016	.228	03-08910	---	03-08920	---	03-08930	---	03-08940	---	03-08950	---
		.020	.285	03-09910	---	03-09920	---	03-09930	---	03-09940	---	03-09950	---
		.025	.353	03-29910	---	03-29920	---	03-29930	---	03-29940	---	03-29950	---
		.032	.452	03-30010	---	03-30020	---	03-30030	---	03-30040	---	03-30050	---
		.040	.570	03-31110	---	03-31120	---	03-31130	---	03-31140	---	03-31150	---
		.050	.713	03-31210	---	03-31220	---	03-31230	---	03-31240	---	03-31250	---
		.063	.889	03-30110	---	03-30120	---	03-30130	---	03-30140	---	03-30150	---
		.090	1.27	03-30210	---	03-30220	---	03-30230	---	03-30240	---	03-30250	---
		.125	1.76	03-30310	---	03-30320	---	03-30330	---	03-30340	---	03-30350	---
		.190		03-10010	---	03-10020	---	03-10030	---	03-10040	---	0310050	---
6061-0	Bare	.020	.282	03-30410	---	03-30420	---	03-30430	---	03-30440	---	03-30450	---
		.040	.564	03-30510	---	03-30520	---	03-30530	---	03-30540	---	03-30550	---
		.063	.889	03-30610	---	03-30620	---	03-30630	---	03-30640	---	03-30650	---
		.080	1.13	03-30710	---	03-30720	---	03-30730	---	03-30740	---	03-30750	---
7075T6	Alclad	.025	.364	03-60010	---	03-60020	---	03-60030	---	03-60040	---	03-60050	---
		.032	.466	03-61010	---	03-61020	---	03-61030	---	03-61040	---	03-61050	---
		.040	.582	03-62010	---	03-62020	---	03-62030	---	03-62040	---	03-62050	---
		.050	.727	03-63010	---	03-63020	---	03-63030	---	03-63040	---	03-63050	---
		.063	.916	03-64010	---	03-64020	---	03-64030	---	03-64040	---	03-64050	---
		.125	1.82	03-65010	---	03-65020	---	03-65030	---	03-65040	---	03-65050	---
7075-0	Alclad	.025	.364	03-66010	---	03-66020	---	03-66030	---	03-66040	---	03-66050	---
		.032	.466	S10	---	03-67020	---	03-67030	---	03-67040	---	03-67050	---
		.040	.582	03-68010	---	03-68020	---	03-68030	---	03-68040	---	03-68050	---
		.063	.916	03-69010	---	03-69020	---	03-69030	---	03-69040	---	03-69050	---

For 2'x2' piece of aluminum sheet, take 2'x4' price ÷ 2, and then add 15%. For 2'x2' piece, change last two digits of P/N to "60". Thicknesses of .016", .020", .025", .032", and .040" can be rolled to ship UPS, but will not be returnable if rolled. The softer and thicker the material, the harder it will be to return to a flat surface. Full sheets of heavier gauges or cut sheets exceeding 108" length plus girth (once down and once around) must be shipped by truck. Maximum sheet size for UPS shipment is 2' x 4'.

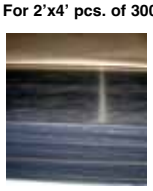
QUANTITY DISCOUNT SCHEDULE: 10% on 6-10 Full Sheets; 15% on 11-15 Full Sheets. May be assorted thicknesses and alloys. Write for quotation on larger orders. Heavy gauge 2024T4 aluminum plate available in .375, . 500 and .625 thickness. Indicate sheet size required.

3003H-14 SOFT ALUMINUM SHEET

Thick.	P/N #	4' x 12'	P/N #	4' x 8'	P/N #	4' x 6'	P/N #	4' x 4'
.020	03-31410	---**	03-31420	---	03-31430	---	03-31440	---
.025	03-32410	---	03-32420	---	03-32430	---	03-32440	---
.032	03-33410	---	03-33420	---	03-33430	---	03-33440	---
.040	03-34410	---	03-34420	---	03-34430	---	03-34440	---
.050	03-34510	---	03-34520	---	03-34530	---	03-34540	---
.063	03-34610	---	03-34620	---	03-34630	---	03-34640	---

**** Length of full sheet of .025 thickness is 10 ft.**

For 2'x4' pcs. of 3003H-14 use "45" as last 2 digits of P/N (Ex: 03-34645)



5052H-32 ALUMINUM SHEET FOR FUEL TANKS

5052H32 Aluminum alloy sheets for fabrication of fuel tanks. Available in full sheets (48"x144") & 1/2 sheets (48"x72") only, in .040 & .050 thicknesses. May be combined with other aluminum sheets for discount. See shipping specs above.

.032 Thickness ..... Full Sheet.....P/N 03-30810 ..... ---
Half Sheet.....P/N 03-30860 ..... ---

.040 Thickness ..... Full Sheet.....P/N 03-30900 ..... ---
Half Sheet.....P/N 03-30950 ..... ---

.050 Thickness ..... Full Sheet.....P/N 03-31000 ..... ---
Half Sheet.....P/N 03-31050 ..... ---

016 ALUMINUM LEADING EDGE 2024T3

12" Wide X 12 ft. (rolled for mailing). Sold in 12 ft. lengths only.....P/N 03-30800 .....**--- Ea.**

18" Wide x 12 ft. (rolled for mailing). Sold in 12 ft. lengths only.....P/N 03-30850 .....**--- Ea.**

Other widths available at proportionate cost plus shearing charge.

STAINLESS STEEL & GALVANIZED FIREWALL SHEET

Material	Width	Thknes (In.)	Weight/ Lin. Ft.(Lbs)	Part No.	Price/ Lin.Ft.
301 Stainless, 1/2 Hard	36"	.016	2.016	03-31200	---
304 Stainless	48"	.018	2.173	03-20010	---
302/304 Stainless, Ann.*	48"	.035	4.38	03-31300	---
Galvanized Sheet, 26 Ga.	48"	.018	2.718	03-31400	---

*** 2B Finish**

Material	Size	Weight/Lin. Ft.(Lbs)	Part No.	Price ea.
301 SS 1/2 Hard	3' x .025"	26	03-00062	---

For 03-00062 Add -1 thru -9 for desired length in feet.

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER.
PLEASE INDICATE AT TIME OF ORDER

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ALUMINUM TUBING

ROUND DRAWN ALUMINUM TUBING 2024T3

O.D. (In.)	I.D. (In.)	Wall Thickness	Wt./Ft. (Lb.)	Part No.	Price Per Ft.
1/4	.180	.035	.2081	03-31600	---
5/16	.243	.035	.0366	03-31700	---
	.215	.049	.0487	03-31800	---
3/8	.305	.035	.0449	03-32000	---
	.277	.049	.0602	03-32100	---
	.245	.065	.0755	03-32200	---
1/2	.430	.035	.0612	03-32500	---
	.402	.049	.0829	03-32600	---
	.384	.058	.0970	03-32700	---
	.370	.065	.1061	03-32800	---
5/8	.555	.035	.0775	03-32900	---
	.527	.049	.1060	03-33000	---
	.509	.058	.1234	03-33100	---
	.495	.065	.1367	03-33200	---
3/4	.680	.035	.0938	03-33300	---
	.652	.049	.1288	03-33400	---
	.620	.065	.1670	03-33600	---
7/8	.805	.035	.1423	03-33650	---
	.777	.049	.1530	03-33700	---
	.759	.058	.1777	03-33800	---
	.745	.065	.1979	03-33900	---
	.635	.120	.3398	03-34000	---
1	.930	.035	.1250	03-34100	---
	.902	.049	.1754	03-34200	---
	.884	.058	.2028	03-34250	---
	.870	.065	.2295	03-34400	---
	.834	.083	.2866	03-34500	---
1-1/4	1.180	.035	.1601	03-34600	---
	1.152	.049	.2213	03-34700	---
	1.120	.065	.3000	03-00045	---
1-3/8	1.277	.049	.2448	03-34800	---
1-1/2	1.402	.049	.2683	03-34900	---
	1.370	.065	.3519	03-35000	---
1-3/4	1.250	.250	1.428	03-35075	---
2	1.870	.065	.4743	03-35200	---

ROUND ALUMINUM TUBING 6061-0

Only available in 6' or 12' lengths. We can cut to smaller pieces for shipping, but total quantity ordered must equal 6 ft, 12 ft, 18 ft, 24 ft, etc. If manufacturing test reports are required, there is a minimum $15.00 charge per order. Please indicate in the special instructions box at the time of order that certs are required.

O.D. (In.)	I.D. (In.)	Wall Thickness	Wt./Ft. (Lb.)	Part No.	6 ft.	12 ft.
1/2	.430	.035	.0612	03-38500	---	---
3/4	.680	.035	.0920	03-38600	---	---
1	.930	.035	.1250	03-38700	---	---
1-1/4	1.180	.035	.1601	03-38800	---	---

Sold in full 6-ft or 12ft lengths only. No charge for cutting to 8 ft or less for UPS shipment.

6061T6 SQUARE ALUMINUM TUBING

Size (In.)	Wall Thickness	Wt/Ft (Lb.)	Part No.	Price Per Ft.
1/2x1/2	.058	.156	03-00008	---
3/4x3/4	.049	.217	03-00009	---
1x1	.065	.300	03-38900	---
2x2	.125	1.120	03-00141	---
6061T6511 2x2	.190	1.420	03-00205	---
6063T52 2x2	.125	1.120	03-39000	---

5052-0 ALUMINUM TUBING

Rigid 5052-0 aluminum alloy tubing is used for low and medium pressure hydraulic systems, fuel lines and oil lines. This tubing will withstand a higher pressure than 3003-0 tubing.

O.D. (In.)	I.D. (In.)	Thickness	Wt./Ft. (Lb.)	Part No.	Price Per Ft.
1/8	.069	.035	.0101	03-39100	---
3/16	.132	.035	.0168	03-39200	---
1/4	.152	.049	.0371	03-39250	---
	.180	.035	.0281	03-39300	---
5/16	.242	.035	.0360	03-39400	---
3/8	.305	.035	.0449	03-39500	---
	.277	.049	.0602	03-39550	---
1/2	.436	.035	.0612	03-39600	---
	.402	.049	.0829	03-39650	---
5/8	.555	.035	.0760	03-39700	---
	.527	.049	.1060	03-39750	---
3/4	.680	.035	.0938	03-39800	---
	.652	.049	.1288	03-39850	---
1	.930	.035	.1256	03-39900	---
	.902	.049	.1754	03-39950	---

Sold in full 6-ft. or 12-ft. lengths only. No charge for cutting to 8 ft. or less for UPS shipment. Unlisted sizes of aluminum tubing available in full 12' lengths. No charge for cutting to 8' or less for UPS. Longer lengths shipped via truck. **Ordering tubing/bar by the foot. Add a dash number after part number to indicate length of tubing required. Ex: 3 ft required add -3, 03-00100-3.**

ROUND ALUMINUM TUBING 6061T6

O.D. (In.)	I.D. (In.)	Wall Thickness	Wt./Ft. (Lb.)	Part No.	Price/Ft.
3/16	.118	.035	---	03-00012	---
1/4	.180	.035	.0281	03-35300	---
	.152	.049	.036	03-00014	---
5/16	.215	.049	.0423	03-35350	---
	.197	.058	.0561	03-35400	---
3/8	.305	.035	.0449	03-35500	---
	.259	.058	.0694	03-35600	---
	.245	.065	.0755	03-35700	---
	.209	.083	.0895	03-35750	---
7/16	.308	.065	.090	03-35775	---
1/2	.444	.028	.0496	03-35795	---
	.430	.035	.0612	03-35800	---
	.402	.049	.0816	03-35850	---
	.384	.058	.0962	03-35900	---
	.370	.065	.1040	03-35950	---
	.260	.120	.168	03-35975	---
5/8	.555	.035	.0775	03-36000	---
	.527	.049	.1060	03-36010	---
	.509	.058	.1227	03-36050	---
	.495	.065	.1367	03-36100	---
3/4	.680	.035	.093	03-36150	---
	.652	.049	.1288	03-36200	---
	.634	.058	.1506	03-36300	---
	.620	.065	.164	03-36350	---
7/8	.805	.035	.109	03-36375	---
	.777	.049	.150	03-36380	---
	.759	.058	.1777	03-36400	---
	.745	.065	.1983	03-36450	---
	.635	.120	.3350	03-36500	---
1	.930	.035	.1275	03-36600	---
	.902	.049	.1754	03-36610	---
	.884	.058	.2060	03-36700	---
	.870	.065	.2295	03-36800	---
	.830	.083	.281	03-36850	---
	.810	.095	.3244	03-36900	---
	.750	.125	.404	03-36950	---
	.500	.250	.693	03-36975	---
1-1/8	1.027	.049	.185	03-36980	---
	1.009	.058	.2321	03-37000	---
	.875	.125	.4712	03-37100	---
1-1/4	1.180	.035	.1601	03-37200	---
	1.152	.049	.2213	03-37210	---
	1.134	.058	.2601	03-37300	---
	1.120	.065	.2907	03-37400	---
	1.010	.120	.510	03-37450*	---
1-3/8	1.259	.058	.2865	03-37500	---
1-1/2	1.430	.035	.1928	03-37550	---
	1.402	.049	.2683	03-37610	---
	1.384	.058	.3137	03-37710	---
	1.370	.065	.3519	03-37800	---
	1.260	.125	.635	03-37850	---
1-5/8	1.509	.058	.3409	03-37900	---
1-3/4	1.680	.035	.2264	03-37910	---
	1.652	.049	.3142	03-37925	---
	1.634	.058	.3703	03-37950	---
	1.584	.083	.5202	03-37975	---
1-7/8	1.759	.058	.3954	03-38000	---
2	1.902	.049	.3601	03-38100	---
	1.884	.058	.4225	03-38200	---
	1.870	.065	.4743	03-38300	---
2-1/4	2.152	.049	.406	03-38307	---
	2.120	.065	.5328	03-38308	---
	1.959	.083	.824	03-38309	---
	2.000	.125	.999	03-38310	---
2-1/2	2.430	.035	.3254	03-38315	---
	2.402	.049	.444	03-38318	---
	2.370	.065	.5803	03-38320	---
3	2.930	.035	.3891	03-38330	---
	2.870	.065	.7140	03-38340	---
4	3.902	.049	.7153	03-38360	---

* This item will be supplied as either .120 or .125.

3003-0 VERSATUBE

Soft aluminum tubing for instrument air and vacuum lines, fuel and oil lines, and primer lines.

***Safety factor of 2 20% discount for full 50' coils of Versatube**

O.D. (In.)	Wall Thickness	Max. Working Pressure* (PSI)	Part No.	Price Per Ft.
1/8	.025	1820	03-40200	---
3/16	.028	880	03-40300	---
1/4	.032	795	03-40400	---
5/16	.035	630	03-40500	---
3/8	.035	520	03-40600	---
1/2	.035	390	03-40700	---
5/8	.035	305	03-40800	---

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER. PLEASE INDICATE AT TIME OF ORDER

ME

ALUMINUM ROD – BAR – ANGLE

ME

ROUND ALUMINUM ROD 2024T3/2024T4

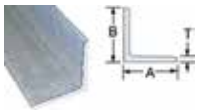
Dia. (In.)	Wt./Ft. (Lb.)	Part No.	Price/Ft.
3/16	.033	03-41400	---
1/4	.059	03-41500	---
5/16	.092	03-41600	---
3/8	.132	03-41700	---
7/16	.1822	03-41750	---
1/2	.235	03-41800	---
5/8	.368	03-41900	---
3/4	.529	03-42000	---
7/8	.721	03-42100	---
1	.941	03-42200	---
1-1/8	1.205	03-42250	---
1-1/4	1.47	03-42300	---
1-3/8	1.800	03-42350	---
1-1/2	2.12	03-42400	---
2	3.76	03-42500	---
2-1/2	5.88	03-42600	---

No charge for cutting to 8 ft. or less for UPS shipment.
Over 8 ft. shipped via truck. Special sizes available. Full length (12 foot) only. If ordering only T3 or T4, please call 877-477-7823

ALUMINUM SQUARE & RECTANGLE BAR 2024T3/2024T4

Size (In.)	Wt./Ft. (Lb.)	Part No.	Price/Ft.
1/8 x 1	.150	03-42700	---
1/8 x 2	.300	03-42900	---
3/16 x 3/4	.169	03-43100	---
1/4 x 1/2	.147	03-00104	---
1/4 x 3/4	.150	03-00199	---
1/4 x 1	.300	03-43400	---
1/4 x 1-1/4	.375	03-43500	---
1/4 x 1-1/2	.450	03-43600	---
1/4 x 2	.599	03-43700	---
1/4 x 3	.900	03-43800	---
1/4 x4	1.99	03-43850	---
3/8 x 1	.4545	03-43875	---
3/8 x 1-1/4	.562	03-43900	---
3/8 x 1-1/2	.6818	03-43950	---
3/8 x 2	.674	03-44000	---
3/8 x 3	1.35	03-44100	---
3/8 x 6	2.7	03-44200	---
1/2 x 1/2	.3030	03-44250	---
1/2 x 5/8	.375	03-44300	---
1/2 x 1	.599	03-44400	---
1/2 x 1-1/4	.7575	03-44450	---
1/2 x 2	1.20	03-44500	---
1/2 x 2-1/2	1.50	03-44600	---
5/8 x 5/8	.468	03-44700	---
5/8 x 1	.7575	03-44850	---
3/4 x 3/4	.674	03-44900	---
3/4 x 1-1/2	1.35	03-45000	---
3/4 x 1-3/4	1.59	03-45550	---
3/4 x 2	1.80	03-45100	---
3/4 x 2-1/2	2.25	03-45200	---
1 x 1	1.20	03-45300	---
1 x 2	2.424	03-45450	---
1 x 2-1/2	3.030	03-45475	---
1/2 x 6	4.002	03-56000	---

Unlisted sizes of aluminum rod and bar available in full 12 ft. lengths.
No charge for cutting to 8 ft. or less for UPS.
Longer lengths shipped via truck.
If ordering only T3 or T4, please call 877-477-7823
Ordering tubing/bar by the foot. Add a dash number after part no. to indicate length of tubing req.
Example: 3 ft required add -3, 03-00100-3.



ALUMINUM ANGLE

Extruded aluminum angle is produced by forcing a heated aluminum billet through a die of the proper shape by means of a hydraulic press. Our 90° aluminum extrusions have fillet radius as illustrated.

Type	Size (In.) Wt./Ft. "A" x "B" x "T"	Part No.	Wt. Per Ft. (Lb.)	Price/Ft.
2024T3	1/2 x 1/2 x 1/16	03-46800	.070	---
2024T3	5/8 x 5/8 x 1/16	03-46900	.095	---
2024T3	3/4 x 3/4 x 1/16	03-47000	.109	---
2024T3	7/8 x 7/8 x 1/8	03-47100	.238	---
2024T3	1 x 1 x 1/16	03-47200	.154	---
2024T3	1 x 1 x 1/8	03-47300	.282	---
2024T3	1 x 1-1/2 x 1/8	03-47400	.354	---
2024T3	1-1/2 x 1-1/2 x 1/16	03-47500	.229	---
2024T3	1-1/2 x 1-1/2 x 1/8	03-47600	.432	---
2024T3	2 x 2 x 1/8	03-47625	.581	---

Type	Size (In.) Wt./Ft. "A" x "B" x "T"	Part No.	Wt. Per Ft. (Lb.)	Price/Ft.
6061T6	3/4 x 3/4 x 1/16	03-00185	.106	---
6061T6	3/4 x 3/4 x 1/8	03-47900	.200	---
6061T6	1 x 1 x 1/16	03-00187	.150	---
6061T6	1 x 1 x 1/8	03-48000	.270	---
6061T6	1-1/4 x 1-1/4 x 1/8	03-00189	.350	---
6061T6	1-1/2 x 1-1/4 x 1/8	03-48075	.390	---
6061T6	1-1/2 x 1-1/2 x 1/8	03-48100	.430	---
6061T6	1-1/2 x 1-1/2 x 3/16	03-48200	.625	---
6061T6	1-1/2 x 1-1/2 x 1/4	03-48250	.831	---
6061T6	1-1/2 x 2 x 1/8	03-48300	.506	---
6061T6	1-3/4 x 1-3/4 x 1/8	03-48350	.490	---
6061T6	2 x 2 x 1/8	03-48400	.470	---
6061T6	2 x 2 x 3/16	03-48450	.850	---
6061T6	2 x 2 x 1/4	03-48500	1.110	---
6061T6	2 x 3 x 1/4	03-48550	1.400	---
6061T6	2 x 2-1/2 x 1/4	03-48600	1.250	---
6061T6	2-1/2 x 2-1/2 x 3/16	03-00007	.970	---
6061T6	2-1/2 x 2-1/2 x 1/8	03-48650	.720	---
6061T6	4 x 4 x 1/4	03-48680	2.28	---

Standard lengths: 2024-12' and 20', 6061-25', 6063-16' (no fillet). No charge for cutting to 8 ft. or less for UPS. Many unlisted sizes available. Request quotation.

ALUMINUM ROUND, SQUARE AND RECTANGLE BARS, 6061T6

Size (In.)	Wt./Ft. (Lb.)	Part No.	Price/Ft.
3/16 Dia. Round	.032	03-45500	---
1/4	.058	03-45600	---
5/16	.090	03-45700	---
3/8	.130	03-45800	---
1/2	.231	03-45900	---
5/8	.359	03-45920	---
3/4	.519	03-46000	---
7/8	.787	03-46010	---
1	.923	03-46100	---
1-1/4	1.436	03-45940	---
1-1/2	2.068	03-45960	---
1-3/8	1.734	03-46110	---
1-5/8	2.44	03-46200	---
1/4 x 1 Rect.	.294	03-46300	---
3/4 x 3/4 Sq.	.660	03-46400	---
3/16" x 1-1/4"	.275	03-46250	---
1/4" x 1-1/2"	.441	03-46350	---
1/4" x 2"	.675	03-00005	---
1/4" x 3"	.881	03-46360	---
1/2" x 3/4"	.441	03-46370	---
1/2" x 1"	.587	03-46375	---
1/2" x 1-1/4"	.734	03-46380	---
1/2" x 2"	1.170	03-46390	---
1" x 1"	1.170	03-46450	---
1" x 1-1/4"	1.270	03-00006	---
1" x 2-1/2"	1.790	03-00142	---

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER. PLEASE INDICATE AT TIME OF ORDER

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ALUMINUM HINGE – STRINGERS

PIANO HINGE

MS20257P (supersedes AN257) hinge consists of two aluminum half hinges which mate and are held together by a hinge pin. Anodized finish. MS20257C is similar to MS20257P except made in stainless steel.

MS20001P aluminum hinge is extruded. The closed hinge loops cannot be pulled apart. Furnished with hinge pin. Anodized finish.

Part No.*	Open Width	Thickness	Price/Length	
			3 Ft.*	6 Ft.*
MS20257P1	3/4”	.032”	---	---
MS20257P2	1-1/16”	.040”	---	---
MS20257P3	1-1/4”	.040”	---	---
MS20257P4	1-1/2”	.040”	---	---
MS20257P5	2”	.051”	---	---
MS20001P3	1-1/4”	.056”	---	---
MS20001P4	1-1/2”	.056”	---	---
MS20001P5	1-3/4”	.056”	---	---
MS20001P6	2”	.056”	---	---
MS20257C1	3/4”	.031	---	---
MS20257C2	1-1/16”	.037	---	---
MS20257C3	1-1/4”	.050	---	---
MS20257C4	1-1/2”	.062	---	---
MS20257C5	2”	.062	---	---

* Add “-3” to part number for 3 ft. pc. and “-6” to part number for 6 ft. pc.
Example: MS20001P6-3 is 3 ft. pc. of MS20001P6 hinge.

MS20253-P2-7200 HINGE PIN STAINLESS STEEL

CAD Plated 302 Stainless Steel sold in 3ft or 6ft lengths. Perfect for use with Piano Hinges above. 0.089” Diameter. Material: Corrosion-Resistant Steel, QQ-W-423, Form, 1, Condition B,(straightened and cut lengths), Comp FS 302, FS 304, or FS 316.

3 Foot.....P/N 03-49000-3..... ---
6 Foot.....P/N 03-49000-6..... ---

BARGAIN BAG OF ALUMINUM TUBING

Approximately 20 ft. Assorted sizes of 2024 and 6061 aluminum tubing, angle, rod, and bar
P/N 03-40100 ..... ---

6063T52 U CHANNEL

3/4”x 3/4”x1/8”.....P/N 03-38950 ..... ---/ft.
1”x1”x1/8”.....P/N 03-39050 ..... ---/ft.
1-1/4”x1-1/4”x1/8” .....P/N 03-39150 ..... ---/ft.

TRAILING EDGE

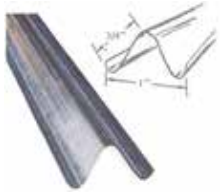
Fabricated of .025 aluminum 3003H14 to size illustrated. Wt.12oz. per 10ft. length. Shipped via truck.

10 Ft. Length .....P/N 03-48900 ..... ---

RECTANGULAR ALUMINUM STRINGERS

Rectangular stringers, 5/8” x 5/16” x .032” 3003H14 aluminum. Wt. 11 oz./12ft. length. Shipped via truck.

12 Ft. Length.....P/N 03-48800 ..... ---



“HAT” SECTION ALUMINUM STRINGERS

Fabricated from .020 2024T3 aluminum. Wt. 5 oz. per 8-ft. length. May be spliced to form longer stringers.
8-Ft. Length ....P/N 03-46500 ..... ---

WELDING ROD FOR ALUMINUM

ER4043 – A versatile alloy well suited for welding 6061T-6, 5005, and 6063. Extremely ductile.
1/16” dia. ....P/N 03-27520..... **---/lb.**
3/32” dia. ....P/N 03-27525..... **---/lb.**

ER5356 – Combination of strength and ductility for welding 5083, 5086, and 7000 series. Deposit can be anodized after welding.
1/16” dia. ....P/N 03-27530..... **---/lb.**

UTP A-65 – A multi alloy wire for a wide range of base materials including stainless steel, low alloy high strength steel and especially outstanding for dissimilar metals with over 120,000 psi tensile strength and 25% elongation. Machinable.
1/16” dia .....P/N 03-27555 ..... **---/lb.**

BRAZING ALLOYS

UTP 1M – High strength, machinable torch rod for steel, brass, bronze and other copper alloys. Easy to apply, high strength, and versatile all purpose brazing rod.
1/8” dia .....P/N 03-27570 ..... **---/lb.**

MAINTENANCE

UTP 612 – An all position mild steel coated electrode for arc welding. Operates on AC or DC current and can be welded by even the most inexperienced welder. 72,000 psi tensile strength, moisture resistant and conveniently packaged in 10 lb containers.
1/16” dia.....P/N 03-27580 ..... **---/lb.**

COPPER TUBING

O.D. (In.)	Wall Thickness	Part No.	Price/Ft.
1/8	.030	03-40900	---
1/4	.030	03-41000	---
5/16	.032	03-41100	---
3/8	.032	03-41200	---
1/2	.032	03-41250	---

Seamless copper tubing for primer, fuel and oil pressure lines.

COPPER BUS BAR

.125 X 1/2” wide

Length (ft.)	Part Number	Price
1	11-40890-1	---
2	11-40890-2	---
3	11-40890-3	---
4	11-40890-4	---
5	11-40890-5	---
6	11-40890-6	---

2024T3511 2 X 1-3/4 T ALUMINUM

2024T3511 2” X 1-3/4” T extruded aluminum. Price per foot.
P/N 03-00093 ..... ---

ACRYLIC – LEXAN – NYLON

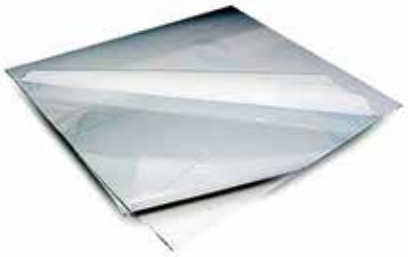
ACRYLIC SHEET

American made acrylic sheet Grade C to Specification LP-391 is unshrunk. When heated to forming temperature of 220-250°F, it will shrink about 2.2% in length and width and will increase about 4% in thickness. When heated to a pliable state it can be drilled, sawed and machined. It has excellent resistance to weathering. It is less than half as heavy as glass and has good impact resistance. .060" or .080" thickness is generally used for side windows and .118" for windshields. Both sides are paper covered for protection. Sheet size: 48"x96". Sold in 2'x2' increments only. Order by part number (see table)

Size	Thickness Inch	Weight Lb./Sq.Ft.	Part No.***	Price/Sq. Ft.
2x2	.060 Clear	.37	03-49802	---
2x2	.080 Clear	.49	03-49902	---
2x2	.118 Clear	.62	03-50002	---
2x2	.118 Tinted*	.77	03-50102	---
2x2	.118 Tinted**	.77	03-50202	---

*** Smoke tint ** #2111 Green tint**

***** Order by basic part number and add last two digits according to dimensions of piece, as follows: 2'x4' (8 Sq.Ft.) add "04"; 4'x4'; (16 Sq.Ft.), add "08"; 4'x8' (32 Sq.Ft.), add "10". Example: 2'x4 .080 Clear is P/N 03-49904.**



LEXAN

American made Kirex polycarbonate sheet (an equivalent to G.E. Lexan) is a very strong plastic which is guaranteed by manufacturer against breakage when used as a window for a 3 year period. It will scratch like Plexiglas, but will not break. Clear, masked both sides. Sheet size: 48"x96". Sold in 2'x2' increments only. Order by part number (see table)

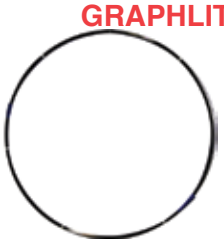
Size	Thickness Inch	Weight Lb./Sq.Ft.	Part No.***	Price/Sq. Ft.
2x2	.060	.38	03-50302	---
2x2	.093	.59	03-50502	---
2x2	0.118	.78	03-50602	---

*** Order by basic part number and add last two digits according to dimensions of piece, as follows: 2'x4' (8 Sq.Ft.) add "04"; 4'x4' (16 Sq.Ft.), add "08"; 4'x8' (32 Sq.Ft.), add "10". Example: 4'x4' of .093 is P/N 03-50508.**

CLEAR CELLULOSE ACETATE SHEET

May be used to make inspection rings, grommets and shapes which will adhere to fabric with dope or fabric cement. Sheet size: 20" x 50". Thickness: .030".
P/N 03-50700..... **---/Sheet**

GRAPHLITE CARBON FIBER ROD



Prepreg tape has an inherent waviness which can reduce the strength and stiffness of a laminate. Graphlite rod eliminates fiber waviness and unlike tape, it can be placed along any curved surface and retain fiber alignment. Graphlite can be used in layers to form building blocks for stiffeners, spar caps, longerons and other axially loaded parts. Components made with Graphlite offer tension strength on the lower wing surface and compression strength on the upper surface that are almost equal. In addition, a single layer of rods is as thick as 10 layers of tape, meaning fewer passes and less effort. Graphlite rods increase compression strength, reduce fabrication costs by 50%, can be laid on compound curves, and require no special storage. Available in two rod types: standard module (SM) which is 33-34 MSI and intermediate module which is 42 msi. Sold by the roll. Typical light aircraft requires minimum of 1000 ft. Graphlite rod.

Rod Type	Rod Diameter	Tensile Strength	Part Number	Price per roll
IM	0.067	503	03-50706	**--- /100 ft.**
SM	0.125	503	03-50707	**--- /12 ft.**

NYLON

Nylon, a polyimide resin, is a light yet tough thermoplastic material. Its density is approximately .041 lb./cu.in. It is a tough, resilient material with a low coefficient of frictionabrasion tests show that Nylon loses less material than do many metals, other plastics, and hard rubber. It can deform under load, then return to its original shape. Nylon retains its impact strength over a wide range of temperatures (-60° to 400°F). It has good resistance to most chemicals. It can be easily machined on most standard metal working machines, power hacksaws, band saws, or circular saws. It is desirable to use a saw with a coarse tooth blade.

NYLON PLATE

Thickness (Inch) (Lbs.)	Wt. per Sq. Ft.	Part Number	Price/ Sq. Ft.*
1/4	I.54	03-51200	---
1/2	3.07	03-51300	---
3/4	4.61	03-51400	---
1	6.15	03-51500	---

*** SOLD BY THE SQUARE FOOT (12" X 12")**
Smaller pieces are available.
Order as follows:
6" x 6" = 0.25
6" x 12"= 0.50
12" x 12"= 1
12" x 24"= 2
12" x 36"=3

NYLON ROUND ROD

Diameter (In.)	Part No.	Price/ Ft.
1/8	03-51600	---
1/2	03-51800	---
3/4	03-51900	---
1	03-52000	---
1-1/4	03-52100	---
1-1/2	03-52200	---
2	03-52300	---

Furnish cutting instructions for UPS shipment.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PHENOLIC – ACRYLIC – DELRIN

HIGH PRESSURE LAMINATED PHENOLIC

Commonly called “Micarta”, a trademark of Westinghouse. Laminated sheets, tube and rods are produced in many grades, sizes and colors. These laminates combine a base material - canvas, linen, paper, glass cloth or Nylon cloth, with a resin- phenolic, melamine, epoxy or silicone, under high heat and pressure to produce a new material with specific characteristics. These characteristics vary with the grade and its use.

GRADE L (LINEN BASE) PHENOLIC SHEET

Used for precision machining and high strength applications. Sheet Size: 36” x 48”. Sold in 6” x 6”, 6” x 12”, 12” x 12”, etc. pieces only.

Thickness (In.)	Wt. /Sq . Ft(Lbs.)	Part No.	Price. Per Sq. Ft.
1/16	.422	03-52400	---
1/8	. 844	03-52500	---
3/16	1.349	03-00111	---
1/4	1.853	03-52600	---
3/8	2.772	03-52700	---
1/2	3.685	03-52800	---
3/4	5.495	03-52900	---

GRADE L (LINEN BASE) PHENOLIC ROD

Used to provide high-strength close-tolerance bolt holes in wooden spars. Cut rod to spar thickness, drill and ream for proper bolt fit. Drill hole in spar for slip fit of rod, then bond in spar with epoxy cement. Produced in 4 ft. lengths.

5/8” dia .....P/N 03-53100 .....**--- /ft.**
3/4” dia .....P/N 03-53200 .....**--- /ft.**

GRADE XXX (PAPER BASE) PHENOLIC TUBING

O.D. (In.)	I.D. (In.)	Wall (In.)	Part No.	Price Per Ft.
3/8	1/4	1/16	03-53300	---
5/8	1/2	1/16	03-53500	---
3/4	5/8	1/16	03-53600	---
7/8	3/4	1/16	03-53700	---

Other sizes and wall thicknesses available at comparable prices

CLEAR EXTRUDED ACRYLIC TUBING

O.D. (In.)	I.D. (In.)	Wall (In.)	Part No.	Price Per Ft.
3/8	1/8	.125	03-53800	---
1/2	1/4	.125	03-53900	---
5/8	3/8	.125	03-54000	---

CLEAR PVC PIPE

Clear, rigid Schedule 40 PVC pipe for sight gauges. Used in Quickie as fuel level gauge. Excellent resistance to gasoline. Nominal 1/4” pipe size (0.54” O.D., 0.33” I.D.) .....P/N 03-54100 ..... **--- /ft.**

WELD-ON ACRYLIC CEMENT

Fast Set - Clear, water thin solvent cement.
P/N 03-00107..... **---**

UNMASK

For easy removal of stubborn masking paper from plastic sheets. This worksaver also removes adhesive residue.
Quantity Discount - 15% on 10 units on this page
Quart..... P/N 03-55100..... **---**
Gallon ..... P/N 03-55105 ..... **---**

DELRIN® ROD

Delrin® is a thermoplastic acetal resin. The most important attributes of Delrin® are high mechanical strength and rigidity, fatigue endurance and high resistance to moisture, gasoline and solvents. This product contains Delrin® resin. Delrin® is a registered trademark of E. I. du Pont de Nemours & Co. Color: Natural. Sold by the foot.

Diameter	Part No.	Price / Ft.	Diameter	Part No.	Price/Ft.
1/8”	02-52018	---	3/4”	02-52034	---
3/16”	02-52316	---	7/8”	02-52078	---
1/4”	02-52014	---	1”	02-52001	---
5/16”	02-52516	---	1-1/8”	02-52118	---
3/8”	02-52038	---	1-1/4”	02-52114	---
7/16”	02-52716	---	1-3/8”	02-52138	---
1/2”	02-52012	---	1-1/2”	02-52112	---
9/16”	02-52916	---	1-3/4”	02-52134	---
5/8”	02-52058	---	2””	02-52002	---

ACRYLIC CUTTING TOOL

This knife features a retractable blade and is used for the “score-and-snap” method of cutting acrylic. Score-and-snap works well for making straight cuts in thinner sheets (1/8” and thinner). It is not recommend this method for sheets thicker than 1/8” due to the difficulty of getting a clean break; a saw will yield better results for heavy sheets. Complete with instructions.
P/N 03-54200 ..... **---**

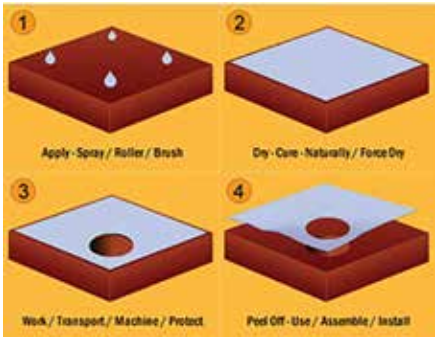
ACRYLIC DRILL BITS

Specially ground point, 60° included tip angle, 0°rake angle, shoulder relieved, for drilling Acrylic to prevent fractures, chipping or cracking. With instructions.

Drill Size	Part No.	Price Ea.
1/8”	12-05489	---
5/32”	12-05490	---
3/16”	12-05491	---
1/4”	12-05492	---

Drill Size	Part No.	Price Ea.
5/16”	12-05493	---
3/8”	12-05494	---
7/16”	12-05495	---
1/2”	12-05496	---

DISCOAT 4220 PLEXIGLASS PROTECTOR

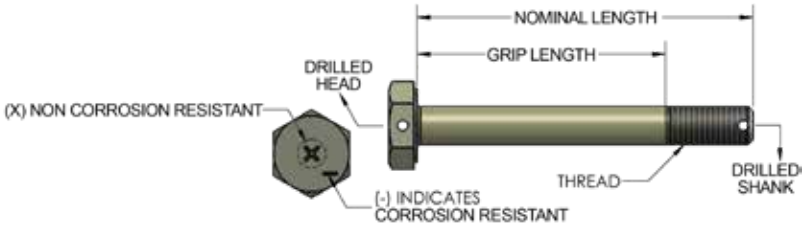


General Chemical’s Disccoat 4220 is a CLEAR water resistant; water based peelable temporary protective coating for Aircraft windshields & windows which provides a long lasting durable protective layer that protects form scratches and oxidation. Used for protecting canopies and windshields during construction. Discoat 4220 air dries quickly, leaving a tough, yet flexible coating that is easily removed and requires no other additional step. 4220 represents the ultimate in water-based removable coating technology. It is stabilized against brittleness and is not softened or penetrated by most water-based compounds.
4220 is impregnated with transparent blue dye for easy visual inspection as well as identification and is non-staining and stable to 100 degrees Celsius. Approximate coverage: 35 sq. ft. per quart. May be applied by spray or brush. Minimum of 4 coats recommended for best results.
Quart.....P/N 03-00158 ..... **---**
Gallon .....P/N 03-00159 ..... **---**

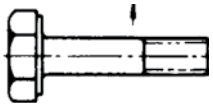
AN BOLTS

AN Bolts
- Made of high-strength type 4037 or 8740 alloy steel
- Centerless ground & threaded
- Minimum tensile strength 125,000 PSI
- Cadmium plated per spec QQ-P-416A, Type II, Class 3
- 431 Stainless steel (CRES)

ANX(C or H)-X(A)
AN = DIAMETER **H = DRILLED HEAD**
C = CORROSION RESISTANT STEEL **A = UNDRILLED SHANK**



FOR UNDRILLED ADD THE LETTER "A" EXAMPLE: AN6 - 10A

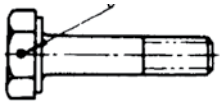


UNDRILLED

FOR DRILLED SHANK NO LETTER EXAMPLE! AN6 - 10

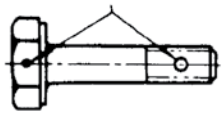
SHANK ONLY DRILLED

FOR DRILLED HEAD ADD "H" AND "A" EXAMPLE: AN6H-10A



HEAD ONLY DRILLED

FOR DRILLED HEAD AND SHANK ADD "H" ONLY EXAMPLE: AN6H-10



BOTH HEAD AND SHANK DRILLED

Bolts are sold "EACH" ALL BOLTS		AN3					AN4				
			Cadmium Plated AN3 (10-32)		Stainless AN3C (10-32)			Cadmium Plated AN4 (1/4-28)		Stainless AN4C (1/4-28)	
Dash No.	Nominal Length	Grip Length	Drilled Price	Undrilled "A" Price	Drilled Price	Undrilled "A' Price	Grip Length	Drilled Price	Undrilled "A" Price	Drilled Price	Undrilled "A" Price
-3	15/32	1/16	---	---	---	---	1/16	---	---	---	---
-4	17/32	1/8	---	---	---	---	1/16	---	---	---	---
-5	21/32	1/4	---	---	---	---	3/16	---	---	---	---
-6	25/32	3/8	---	---	---	---	5/16	---	---	---	---
-7	29/32	1/2	---	---	---	---	7/16	---	---	---	---
-10	1-1/32	5/8	---	---	---	---	9/16	---	---	---	---
-11	1-5/32	3/4	---	---	---	---	11/16	---	---	---	---
-12	1-9/32	7/8	---	---	---	---	13/16	---	---	---	---
-13	1-13/32	1	---	---	---	---	15/16	---	---	---	---
-14	1-17/32	1-1/8	---	---	---	---	1-1/16	---	---	---	---
-15	1-21/32	1-1/4	---	---	---	---	1-3/16	---	---	---	---
-16	1-25/32	1-3/8	---	---	-	---	1-5/16	---	---	-	---
-17	1-29/32	1-1/2	---	---	---	---	1-7/16	---	---	---	---
-20	2-1/32	1-5/8	---	---	---	---	1-9/16	---	---	---	---
-21	2-5/32	1-3/4	---	---	-	---	1-11/16	---	---	-	---
-22	2-9/32	1-7/8	---	---	-	---	1-13/16	---	---	-	---
-23	2-13/32	2	---	---	-	---	1-15/16	---	---	-	---
-24	2-17/32	2-1/8	---	---	-	---	2-1/16	---	---	-	---
-25	2-21/32	2-1/4	---	---	-	---	2-3/16	---	---	-	---
-26	2-25/32	2-3/8	---	---	-	---	2-5/16	---	---	-	---
-27	2-29/32	2-1/2	---	---	-	---	2-7/16	---	---	-	---
-30	3-1/32	2-5/8	---	---	-	---	2-9/16	---	---	-	---
-31	3-5/32	2-3/4	---	---	-	-	2-11/16	---	---	-	-
-32	3-9/32	2-7/8	---	---	-	-	2-13/16	---	---	-	-
-33	3-13/32	3	---	---	-	-	2-15/16	---	---	-	-
-34	3-17/32	3-1/8	---	---	-	-	3-1/16	---	---	-	-
-35	3-21/32	3-1/4	---	---	-	---	3-3/16	---	---	-	-
-36	3-25/32	3-3/8	---	---	-	-	3-5/16	---	---	-	-
-37	3-29/32	3-1/2	---	---	-	-	3-7/16	---	---	-	-
-40	4-1/32	3-5/8	---	---	-	-	3-9/16	---	---	-	-
-41	4-5/32	3-3/4	---	---	-	-	3-11/16	---	---	-	-
-42	4-9/32	3-7/8	---	---	-	-	3-13/16	---	---	-	-
-43	4-13/32	4	-	---	-	-	3-15/16	---	---	-	-
-44	4-17/32	4-1/8	---	---	-	-	4-1/16	---	---	-	-
-45	4-21/32	4-1/4	---	---	-	-	4-3/16	---	---	-	-
-46	4-25/32	4-3/8	---	---	-	-	4-5/16	---	---	-	-
-47	4-29/32	4-1/2	---	---	-	-	4-7/16	---	---	-	-
-50	5-1/32	4-5/8	---	---	-	-	4-9/16	---	---	-	-
-51	5-5/32	4-3/4	---	---	-	-	4-11/16	---	---	-	-
-52	5-9/32	4-7/8	-	---	-	-	4-13/16	---	---	-	-
-53	5-13/32	5	-	-	-	-	4-15/16	-	---	-	-
-54	5-17/32	5-1/8	---	---	-	-	5-1/16	-	---	-	-
-55	5-21/32	5-1/4	-	---	-	-	5-3/16	---	---	-	-
-56	5-25/32	5-3/8	---	---	-	-	5-5/16	---	---	-	-
-57	5-29/32	5-1/2	-	---	-	-	5-7/16	---	---	-	-
-60	6-1/32	5-5/8	---	---	-	-	5-9/16	---	---	-	-

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AN BOLTS

AN BOLT GAUGE

Easy to use bolt gauge quickly and accurately identifies the diameters and lengths of "AN" bolts ranging from AN3-3 to AN10-50. There is also a handy reference guide on the back to help you identify the specific type of bolt from its head markings (symbology) and pre-drilled holes. 1 lbs (0.5Kg) shipping weight.
Automatically sizes all AN bolts up to 5/8" diameter and 5 inches long.

P/N 04-05400.....---

AN5 BOLTS AND AN6 BOLTS

Hex head aircraft bolts are made of high-strength type 4037 or 8740 alloy steel (type 8740 is most commonly used). The bolts are centerless ground and threaded after heat treatment. Minimum tensile strength 125,000 PSI. Cadmium plated per specification QQ-P-416A, Type II, Class 3.

Bolts are sold "EACH" ALL BOLTS		AN5					AN6				
			Cadmium Plated AN5 (5/16-24)		Stainless AN5C (5/16-24)			Cadmium Plated AN6 (3/8-24)		Stainless AN6C (3/8-24)	
Dash No.	Nominal Length	Grip Length	Drilled Price	Undrilled "A" Price	Drilled Price	Undrilled "A" Price	Grip Length	Drilled Price	Undrilled "A" Price	Drilled Price	Undrilled "A" Price
-4	19/32	1/16	---	---	---	---	1/16	---	---	-	-
-5	23/32	3/16	---	---	---	---	1/16	---	---	-	---
-6	27/32	5/16	---	---	---	---	3/16	---	---	---	---
-7	31/32	7/16	---	---	---	---	5/16	---	---	---	---
-10	1-3/32	9/16	---	---	-	---	7/16	---	---	-	---
-11	1-7/32	11/16	---	---	-	---	9/16	---	---	---	---
-12	1-11/32	13/16	---	---	---	---	11/16	---	---	---	---
-13	1-15/32	15/16	---	---	-	---	13/16	---	---	-	---
-14	1-19/32	1-1/16	---	---	-	---	15/16	---	---	---	---
-15	1-23/32	1-3/16	---	---	-	---	1-1/16	---	---	-	---
-16	1-27/32	1-5/16	---	---	-	-	1-3/16	---	---	---	---
-17	1-31/32	1-7/16	---	---	-	---	1-5/16	---	---	-	---
-20	2-3/32	1-9/16	---	---	-	---	1-7/16	---	---	-	-
-21	2-7/32	1-11/16	---	---	-	---	1-9/16	---	---	-	-
-22	2-11/32	1-13/16	---	---	-	-	1-11/16	---	---	-	-
-23	2-15/32	1-15/16	---	---	-	-	1-13/16	---	---	-	-
-24	2-19/32	2-1/16	---	---	-	-	1-15/16	---	---	-	-
-25	2-23/32	2-3/16	---	---	-	---	2-1/16	---	---	-	-
-26	2-27/32	2-5/16	---	---	-	---	2-3/16	---	---	-	-
-27	2-31/32	2-7/16	---	---	-	---	2-5/16	---	---	-	-
-30	3-3/32	2-9/16	---	---	-	-	2-7/16	---	---	-	-
-31	3-7/32	2-11/16	---	---	-	-	2-9/16	---	---	-	-
-32	3-11/32	2-13/16	---	---	-	-	2-11/16	---	---	-	-
-33	3-15/32	2-15/16	---	---	-	-	2-13/16	---	---	-	-
-34	3-19/32	3-1/16	---	---	-	-	2-15/16	---	---	-	-
-35	3-23/32	3-3/16	---	---	-	-	3-1/16	---	---	-	-
-36	3-27/32	3-5/16	---	---	-	-	3-3/16	---	---	-	-
-37	3-31/32	3-7/16	---	---	-	-	3-5/16	---	---	-	-
-40	4-3/32	3-9/16	---	---	-	-	3-7/16	---	---	-	-
-41	4-7/32	3-11/16	---	---	-	-	3-9/16	---	---	-	-
-42	4-11/32	3-13/16	-	---	-	-	3-11/16	---	---	-	-
-43	4-15/32	3-15/16	---	---	-	-	3-13/16	---	---	-	-
-44	4-19/32	4-1/16	-	---	-	-	3-15/16	---	---	-	-
-45	4-23/32	4-3/16	---	---	-	-	4-1/16	---	---	-	-
-46	4-27/32	4-5/16	---	---			4-3/16	---	---	-	-
-47	4-31/32	4-7/16	---	---	-	-	4-5/16	---	---	-	-
-50	5-3/32	4-9/16	---	---	-	-	4-7/16	---	---	-	-
-51	5-7/32	4-11/16	---	---	-	-	4-9/16	---	---	-	-
-52	5-11/32	4-13/16	---	---	-	-	4-11/16	---	---	-	-
-53	5-15/32	4-15/16	---	---	-	-	4-13/16	---	---	-	-
-54	5-19/32	5-1/16	---	---	-	-	4-15/16	---	---	-	-
-55	5-23/32	5-3/16	---	---	-	-	5-1/16	---	---	-	-
-56	5-27/32	5-5/16	---	---	-	-	5-3/16	---	---	-	-
-57	5-31/32	5-7/16	---	---	-	-	5-5/16	---	---	-	-
-60	6-3/32	5-9/16	---	---	-	-	5-7/16	---	---	-	-

AN BOLTS

USE REFERENCE CHART

Bolt Size	AN960 Flat Washer	AN970 Lg. Area Flat Washer	AN365 Nylon Insert Locknut	AN310 Castle Nut	AN380 Cotter Pin
AN3	-10	-3	-1032	-3	-2-2 or longer
AN4	-416	-4	-428	-4	-25-2 or longer
AN5	-516	-5	-524	-5	-25-3
AN6	-616	-6	-624	-6	-3-3 or longer
AN7	-716	-7	-720	-7	-3-3 or longer
AN8	-816	-8	-820	-8	-3-4 or longer

SAMPLE PART NUMBERS

AN3-4 .....Cad-plated, drilled shank

AN3-4A..... Cad-plated, undrilled

AN3C-4..... Stainless steel, drilled shank

AN3C-4A.....Stainless steel, undrilled

TOBACCO BAGS

Cloth bags for holding hardware as it is removed from the aircraft. Set of 25.

P/N 04-05310 ..... ---

NOTICE - Aircraft Spruce & Specialty Company is committed to supplying only top quality aircraft grade hardware. We receive our hardware certified to applicable AN, MS, or NAS specifications from our suppliers, on certain items it is necessary for us to accept hardware without certifiable traceability in order to continue supplying that particular part number. These hardware items are designated as "surplus" in the product description.

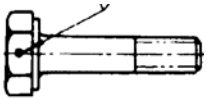
HA

AN7 AND AN8 BOLTS

Hex head aircraft bolts are made of high-strength type 4037 or 8740 alloy steel (type 8740 is most commonly used). The bolts are centerless ground and threaded after heat treatment. Minimum tensile strength 125,000 PSI. Cadmium plated per specification QQ-P-416A, Type II, Class 3.

Bolts are sold "EACH"		AN7					AN8		
ALL BOLTS			Cadmium Plated AN7 (7/16-20)		Stainless AN7C (7/16-20)			Cadmium Plated AN8 (1/2-20)	
Dash	Nominal Length	Grip Length	Drilled Price	Undrilled "A" Price	Drilled Price	Undrilled "A" Price	Grip Length	Drilled Price	Undrilled "A" Price
-5	23/32	1/16	--	---	-	-	-	-	-
-6	27/32	3/16	---	---	-	-	1/16	---	---
-7	31/32	5/16	--	---	-	-	3/16	---	---
-10	1-3/32	7/16	---	---	-	-	5/16	--	---
-11	1-7/32	9/16	--	---	-	-	7/16	---	---
-12	1/11/32	11/16	---	---	-	-	9/16	---	---
-13	1-15/32	13/16	---	---	-	-	11/16	---	---
-14	1-19/32	15/16	---	---	-	-	13/16	---	---
-15	1-23/32	1-1/16	---	---	-	-	15/16	---	---
-16	1-27/32	1-3/16	---	---	-	-	1-1/16	---	---
-17	1-31/32	1-5/16	---	---	-	-	1-3/16	---	---
-20	2-3/32	1-7/16	---	---	-	-	1-5/16	---	---
-21	2-7/32	1-9/16	---	---	-	-	1-7/16	---	---
-22	2-11/32	1-11/16	---	---	-	-	1-9/16	---	---
-23	2-15/32	1-13/16	--	---	-	-	1-11/16	---	---
-24	2-19/32	1-15/16	---	---	-	-	1-13/16	---	---
-25	2-23/32	2-1/16	---	---	-	-	1-15/16	---	---
-26	2-27/32	2-3/16	---	---	-	-	2-1/16	---	---
-27	2-31/32	2-5/16	---	---	-	-	2-3/16	---	---
-30	3-3/32	2-7/16	--	---	-	-	2-5/16	---	---
-31	3-7/32	2-9/16	---	---	-	-	2-7/16	---	---
-32	3-11/32	2-11/16	---	---	-	-	2-9/16	---	---
-33	3-15/32	2-13/16	---	---	-	-	2-11/16	---	---
-34	3-19/32	2-15/16	---	---	-	-	2-13/16	---	---
-35	3-23/32	3-1/16	---	---	-	-	2-15/16	--	---
-36	3-27/32	3-3/16	---	---	-	-	3-1/16	---	---
-37	3-31/32	3-5/16	---	---	-	-	3-3/16	---	---
-40	4-3/32	3-7/16	---	---	-	-	3-5/16	--	---
-41	4-7/32	3-9/16	--	--	-	-	3-7/16	---	---
-42	4-11/32	3-11/16	---	---	-	-	3-9/16	---	--
-43	4-15/32	3-13/16	---	---	-	-	3-11/16	---	---
-44	4-19/32	3-15/16	---	---	-	-	3-13/16	---	---
-45	4-23/32	4-1/16	---	---	-	-	3-15/16	---	---
-46	4-27/32	4-3/16	---	---	-	-	4-1/16	--	--
-47	4-31/32	4-5/16	---	---	-	-	4-3/16	---	--
-50	5-3/32	4-7/16	---	---	-	-	4-5/16	---	---
-51	5-7/32	4-9/16	--	--	-	-	4-7/16	--	---
-52	5-11/32	4-11/16	---	---	-	-	4-9/16	---	---
-53	5-15/32	4-13/16	--	-	-	-	4-11/16	---	--
-54	5-19/32	4-15/16	-	--	-	-	4-13/16	--	---
-55	5-23/32	5-1/16	--	---	-	-	4-15/16	---	--
-56	5-27/32	5-3/16	---	---	-	-	5-1/16	---	---
-57	5-31/32	5-5/16	--	---	-	-	5-3/16	---	--
-60	6-3/32	5-7/16	---	---	-	-	5-5/16	---	--

DRILLED HEAD, UNDRILLED SHANK



AN3 **Ea.**

H4A ..... ---
H5A ..... ---
H6A ..... ---
H10A ..... ---
H12A ..... ---
H13A ..... ---
H15A ..... ---

AN4 **Ea.**

H3A ---
H4A ..... ---
H5A ..... ---
H6A ..... ---
H7A ..... ---
H12A ..... ---
H13A ..... ---
H14A ..... ---
H16A ..... ---
H21A ..... ---
H26A ..... ---
H30A ..... ---
H32A ..... ---

AN5 **Ea.**

H6A ---
H12A ..... ---
H13A ..... ---
H16A ..... ---
H17A ..... ---
H20A ..... ---
H31A ..... ---
H33A .....-------

AN6 **Ea.**

H11A ---
H14A ..... ---
H20A ..... ---
H31A ..... ---
H32A ..... ---
H34A ..... ---
H37A ..... ---
H40A ..... ---
H41A ..... ---
H43A ..... ---
H45A ..... ---
H46A ..... ---
H50A ..... ---

AN8 **Ea.**

H7A ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

EYE BOLTS

AN42 - AN46 EYE BOLTS

Eye bolts are special purpose bolts to be used where external tension loads are to be applied. The eye is designed for attachment of such devices as a turnbuckle fork, a clevis or a cable shackle. Manufactured and plated in same manner as AN3 - AN8 bolts. Minimum tensile strength 125, 000 PSI . Eye bolts will be furnished with either drilled or undrilled shank subject to stock on hand. Add letter "A" after dash number for undrilled shank.

Bolts are sold "EACH"		AN42B			AN43B		
ALL BOLTS		Shank 3/16" / Hole 3/16" / Thread 10-32			Shank 1/4" / Hole 3/16" / Thread 1/4-28		
Dash No.	Nominal Length	Grip Length	Drilled Price	Undrilled "A" Price	Grip Length	Drilled Price	Undrilled "A" Price
-4	1/2	1/8	---	---	1/16	---	---
-5	5/8	1/4	---	---	3/16	---	---
-6	3/4	3/8	---	---	5/16	---	---
-7	7/8	1/2	---	---	7/16	---	---
-10	1	5/8	---	---	9/16	---	---
-11	1-1/8	3/4	---	---	11/16	---	---
-12	1-1/4	7/8	---	---	13/16	---	---
-13	1-3/8	1	---	---	15/16	---	---
-14	1-1/2	1-1/8	---	---	1-1/16	---	---
-15	1-5/8	1-1/4	---	---	1-3/16	---	---
-16	1-3/4	1-3/8	---	---	1-5/16	---	---
-17	1-7/8	1-1/2	---	---	1-7/16	---	---
-20	2	1-5/8	---	---	1-9/16	---	---
-21	2-1/8	1-3/4	---	---	1-11/16	---	---
-22	2-1/4	1-7/8	---	---	1-13/16	---	---
-23	2-3/8	2	---	---	1-15/16	---	---
-24	2-1/2	2-1/8	---	---	2-1/16	---	---
-25	2-5/8	2-1/4	---	---	2-3/16	---	---
-26	2-3/4	3-3/8	---	---	2-5/16	---	---
-27	2-7/8	2-1/2	---	---	2-7/16	---	---
-30	3	2-5/8	---	---	2-9/16	---	---

Bolts are sold "EACH"		AN44			AN45			
ALL BOLTS		Shank 5/16" / Hole 1/4" / Thread 5/16-24			Shank 05/16" / Hole 5/16" / Thread 5/16-24			
Dash No.	Nominal Length	Grip Length	Drilled Price	Undrilled "A" Price	Dash No.	Grip Length	Drilled Price	Undrilled "A" Price
-5	5/8	3/16	---	---	-4	1/16	---	---
-7	7/8	7/16	---	---	-5	3/16	---	---
-10	1	9/16	---	---	-6	5/16	---	---
-11	1-1/8	11/16	---	---	-7	7/16	---	---
-12	1-1/4	13/16	---	---	-10	9/16	---	---
-13	1-3/8	15/16	---	---	-12	13/16	---	---
-14	1-1/2	1-1/16	---	---	-13	15/16	---	---
-15	1-5/8	1-3/16	---	---	-14	1-1/16	---	---
-16	1-3/4	1-5/16	---	---	-15	1-3/16	---	---
-17	1-7/8	1-7/16	---	---	-16	1-5/16	---	---
-20	2	1-9/16	---	---	-17	1-7/16	---	---
-21	2-1/8	1-11/16	---	---	-20	1-9/16	---	---
-22	2-1/4	1-13/16	---	---	-21	1-11/16	---	---
-24	2-1/2	2-1/16	---	---	-23	1-15/16	---	---
-25	2-5/8	2-3/16	---	---	-24	2-1/16	---	---
-26	2-3/4	2-5/16	---	---	-25	2-3/16	---	---
-27	2-7/8	2-7/16	---	---	-26	2-5/16	---	---
-30	3	2-9/16	---	---	-27	2-7/16	---	---
					-30	2-9/16	---	---

Bolts are sold "EACH"		AN46		
ALL BOLTS		Shank 3/8" / Hole 3/8" / Thread 3/8-24		
Dash No.	Nominal Length	Grip Length	Drilled Price	Undrilled "A" Price
-5	5/8	1/16	---	---
-6	3/4	3/16	---	---
-7	7/8	5/16	---	---
-10	1	7/16	---	---
-12	1-1/4	11/16	---	---
-13	1-3/8	13/16	---	---
-14	1-1/2	15/16	---	---
-15	1-5/8	1-1/16	---	---
-16	1-3/4	1-3/16	---	---
-17	1-7/8	1-5/16	---	---
-20	2	1-7/16	---	---
-21	2-1/8	1-9/16	---	---
-22	2-1/4	1-11/16	---	---
-23	2-3/8	1-13/16	---	---
-25	2-5/8	2-1/16	---	---
-26	2-3/4	2-3/16	---	---
-27	2-7/8	2-5/16	---	---
-30	3	2-7/16	---	---

QUICK RELEASE PINS

These pins of stainless steel, are made to exacting standards. Pushing the button on top, it contracts and releases two (or four) balls at the end of the shank. These balls lock onto and release from the part for fast removal. The following types and sizes are most commonly used for hang gliders and not for structural aircraft. Request quote on special sizes (25 piece minimum). Less 10% for 12, Less 15% for 25, Less 20% for 50. May be assorted. • Head Type - TEE • 1/4" Shank Diameter

Part No.	Alternate Part No.	MS Part No.	Length	Price
04-01486	LG4C-T-0.343	---	0.343"	---
04-01473	LG4C-T-1.40	MS17985-414	1.400"	---
04-01487	LG4C-T-2.10	MS17985-421	2.080"	---

CLEVIS BOLTS

AN23 - AN27 CLEVIS BOLTS

Clevis bolts have a slotted brazier type head. They are special-purpose bolts for use where a large shearing stress occurs (never in tension). Manufactured and cadmium plated in same manner as AN3 - AN8 aircraft bolts. Minimum tensile strength 125,000 PSI. Available with drilled or undrilled shank. Add letter "A" after dash number for undrilled shank. Prices fluctuate on clevis bolts.

Dash No.	AN23 (3/16")				AN24 (1/4")			
	Grip	Length	Drilled	Un-Drilled	Grip	Length	Drilled	Un-Drilled
8	3/16	17/32	---	---	3/16	17/32	----	---
9	1/4	19/32	---	---	1/4	19/32	---	----
10	5/16	21/32	---	---	5/l6	21/32	---	---
11	3/8	23/32	---	---	3/8	23/32	---	---
12	7/l6	25/32	---	---	7/16	25/32	---	---
13	1/2	27/32	---	---	1/2	27/32	---	---
14	9/l6	29/32	---	---	9/16	29/32	---	---
15	5/8	31/32	---	---	5/8	31/32	---	----
16	11/16	1-1/32	---	---	11/16	1-1/32	---	---
l7	3/4	1-3/32	---	---	3/4	1-3/32	---	---
l8	13/16	1-5/32	---	---	13/16	1-5/32	---	---
l9	7/8	1-7/32	---	---	7/8	1-7/32	---	---
20	15/16	1-9/32	---	---	15/16	1-9/32	---	---
21	1	1-11/32	---	---	1	1-11/32	---	---
22	1-1/16	1-13/32	---	---	1-1/16	1-13/32	---	---
23	1-1/8	1-15/32	---	---	1-1/8	1-15/32	---	---
24	1-3/16	1-17/32	---	---	1-3/16	1-17/32	---	---
25	1-1/4	1-19/32	---	---	1-1/4	1-19/32	----	----
26	1-5/16	1-21/32	---	---	1-5/16	1-21/32	---	---
27	1-3/8	1-23/32	---	---	1-3/8	1-23/32	---	---
28	1-7/16	1-25/32	---	---	1-7/16	1-25/32	----	---
29	1-1/2	1-27/32	---	---	1-1/2	1-27/32	---	----
30	1-9/16	1-29/32	----	---	1-9/16	1-29/32	----	----
31	1-5/8	1-31/32	----	---	1-5/8	1-31/32	---	---
32	1-11/16	2-1/32	---	---	1-11/16	2-1/32	---	----
34	1-13/16	2-5/32	---	---	1-13/16	2-5/32	---	---
36	1-15/16	2-9/32	----	----	1-15/16	2-9/32	---	---
38	2-1/16	2-13/32	---	---	2-1/16	2-13/32	---	----
40	2-3/16	2-17/32	---	---	2-3/16	2-17/32	----	---

Dash No.	AN25 (5/16")				AN26 (3/8")				AN27 (7/16")			
	Grip	Length	Drilled	Un-Drilled	Grip	Length	Drilled	Un-Drilled	Grip	Length	Drilled	Un-Drilled
8	----	----	----	----	----	----	----	----	----	----	----	----
9	1/4	39/64	----	----	l/4	39/64	----	----	----	----	----	----
10	5/16	43/64	---	----	5/16	43/64	----	----	----	----	----	----
11	3/8	47/64	---	----	3/8	47/64	----	----	----	----	----	----
12	7/16	5l/64	----	---	7/16	51/64	----	----	3/8	51/64	----	----
13	1/2	55/64	----	----	1/2	55/64	----	----	7/16	55/64	----	----
14	9/16	59/64	---	---	9/16	59/64	---	----	1/2	59/64	----	----
15	5/8	63/64	---	----	5/8	63/64	----	----	9/16	63/64	----	----
16	11/16	1-3/64	----	----	11/16	1-3/64	---	----	5/8	1-3/64	----	----
l7	3/4	1-7/64	---	----	3/4	1-7/64	----	----	11/16	1-7/64	----	----
l8	13/16	1-11/64	---	----	13/16	1-11/64	---	----	3/4	1-11/64	----	----
l9	7/8	1-15/64	---	----	7/8	1-15/64	----	----	13/16	1-15/64	----	----
20	15/16	1-19/64	----	----	15/16	1-19/64	---	---	7/8	1-19/64	----	----
21	1	1-23/64	---	----	1	1-23/64	---	----	15/16	1-23/64	----	----
22	1-1/16	1-27/64	---	---	1-1/16	1-27/64	---	----	1	1-27/64	----	----
23	1-1/8	1-31/64	----	----	1-1/8	1-31/64	---	----	1-1/16	1-31/64	----	----
24	1-3/16	1-35/64	---	----	1-3/16	1-35/64	----	----	1-1/8	1-35/64	----	----
25	1-1/4	1-39/64	----	----	1-1/4	1-39/64	----	----	1-3/16	1-39/64	----	----
26	1-5/16	1-43/64	----	----	1-5/16	1-43/64	---	----	1-1/4	1-43/64	----	----
27	1-3/8	1-47/64	----	----	1-3/8	1-47/64	----	----	1-5/16	1-47/64	----	----
28	1-7/16	1-51/64	----	----	1-7/16	1-51/64	----	----	1-3/8	1-51/64	----	----
29	1-1/2	1-55/64	---	----	1-1/2	1-55/64	----	----	1-7/16	1-55/64	----	----
30	1-9/16	1-59/64	----	----	1-9/16	1-59/64	----	----	1-1/2	1-59/64	----	----
31	1-5/8	1-63/64	---	----	1-5/8	1-63/64	----	----	1-9/16	1-63/64	----	----
32	1-11/16	2-3/64	---	----	1-11/16	2-3/64	----	----	1-5/8	2-3/64	----	----
34	1-13/16	2-11/64	-----	----	1-13/16	2-11/64	----	----	1-3/4	2-11/64	----	----
36	1-15/16	2-19/64	----	----	1-15/16	2-19/64	----	----	1-7/8	2-19/64	----	----
38	2-1/16	2-27/64	---	----	2-1/16	2-27/64	---	----	2	2-27/64	----	----
40	2-3/16	2-35/64	----	----	2-3/16	2-35/64	----	----	2-1/8	2-35/64	----	----

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CLEVIS BOLTS

AN173, AN174, & AN175 CLOSE TOLERANCE BOLTS

Note: All AN173-AN175 bolts are drilled shank.
Non-corrosion-resistant cadmium-plated steel machine bolts. Manufactured to Revision 20 (April, 1990) of the military specification.

Cat. #	Dia. (inches)	Threads/inch	Length (inches)	Grip (inches)	Price
AN173-5	.1900	32 NF-3A	.656	.250	---
AN173-6			.781	.375	---
AN173-7A			.906	.500	---
AN173-7			.906	.500	---
AN173-10			1.031	.625	---
AN173-11			1.156	.750	---
AN173-12			1.281	.875	---
AN173-13			1.406	1.000	---
AN173-14			1.531	1.125	---
AN173-15			1.656	1.250	---
AN173-16			1.781	1.375	---
AN174-3	.2500	28 UNF-3A	.469	.062	------
AN174-4			.531	.062	------
AN174-5			.656	.188	---
AN174-6			.781	.312	---
AN174-7			.906	.438	---
AN174-10			1.031	.562	---
AN174-11			1.156	.688	---
AN174-12			1.281	.812	---
AN174-13			1.406	.938	---
AN174-14			1.531	1.062	---
AN174-15			1.656	1.188	---
AN174-16	0.25	28 UNF-3A	1.781	1.312	------
AN174-17	1.906	1.438	1.875	1.4375	---
AN174-20	2.031	1.562	2	1.5625	---
AN174-21	2.156	1.688	------	------	------
AN174-23	2.406	1.938	------	------	---
AN174-24	2.531	2.062	------	------	------
AN175-14	0.3125	24 UNF-3A	1.594	1.062	---
AN175-15	1.719	1.188	1.625	1.25	---
AN175-16	1.844	1.312	1.75	1.375	---
AN175-17	1.969	1.438	------	------	------
AN175-20	2.094	1.562	2	1.5625	---
AN175-21	2.219	1.688	1.125	1.6875	---
AN175-22	2.344	1.812	2.25	1.8125	---
AN175-23	2.469	1.938	------	------	------
AN175-24	2.594	2.062	------	------	------
AN175-25	2.719	2.188	------	------	------
AN175-26	2.844	2.312	------	------	------
AN175-27	2.969	2.438	------	------	------
AN175-30	3.094	2.562	------	------	------
AN175-31	3.219	2.688	------	------	------
AN175-32	3.344	2.812	3.25	2.8125	---
AN175-33	3.469	2.938	3.375	2.9375	---

Cat. #	Nominal Length	Grip Length	Price
AN176-10A	1-3/32	7/16	---
AN176-13A	1-15/32	13/16	---
AN176-14A	1-19/32	15/16	---
AN176-15	1-1/16	1-45/64	------

HA

NAS SHEAR BOLTS

These bolts supersede NAS1103–NAS1106 high strength bolts. Made from alloy steel with a CAD II finish.

Part numbers with "D" are for shank drilled. All others are undrilled bolts.

Part Number	Thread	Grip Length	Length	Price
NAS6203-10	10-32	0.625	0.948	---
NAS6203-10D	10-32	0.625	0.948	---
NAS6203-11	10-32	0.688	1.011	---
NAS6203-11D	10-32	0.688	1.011	---
NAS6203-12	10-32	0.750	1.073	---
NAS6203-12D	10-32	0.750	1.073	---
NAS6203-13	10-32	0.813	1.136	---
NAS6203-13D	10-32	0.813	1.136	---
NAS6203-14	10-32	0.875	1.198	---
NAS6203-14D	10-32	0.875	1.198	---
NAS6203-15	10-32	0.938	1.261	---
NAS6203-15D	10-32	0.938	1.261	---
NAS6203-16	10-32	1.000	1.323	---
NAS6203-16D	10-32	1.000	1.323	---
NAS6203-17	10-32	1.063	1.386	---
NAS6203-17D	10-32	1.063	1.386	---
NAS6203-18	10-32	1.125	1.448	---
NAS6203-18D	10-32	1.125	1.448	---
NAS6203-19	10-32	1.188	1.511	---
NAS6203-19D	10-32	1.188	1.511	---
NAS6203-2	10-32	0.125	0.448	---
NAS6203-20	10-32	1.250	1.573	---
NAS6203-20D	10-32	1.250	1.573	---
NAS6203-21	10-32	1.313	1.636	---
NAS6203-21D	10-32	1.313	1.636	---
NAS6203-22	10-32	1.375	1.698	---
NAS6203-22D	10-32	1.375	1.698	---
NAS6203-23	10-32	1.438	1.761	---
NAS6203-23D	10-32	1.438	1.761	---
NAS6203-24	10-32	1.500	1.823	---
NAS6203-24D	10-32	1.500	1.823	---
NAS6203-3	10-32	0.188	0.511	---
NAS6203-32	10-32	2.000	2.323	---
NAS6203-38	10-32	2.375	2.698	---
NAS6203-3D	10-32	0.188	0.511	---
NAS6203-4	10-32	0.250	0.573	---
NAS6203-4D	10-32	0.250	0.573	---
NAS6203-5	10-32	0.313	0.636	---
NAS6203-56	10-32	3.500	3.823	---
NAS6203-5D	10-32	0.313	0.636	---
NAS6203-6	10-32	0.375	0.698	---
NAS6203-6D	10-32	0.375	0.698	---
NAS6203-7	10-32	0.438	0.761	---
NAS6203-7D	10-32	0.438	0.761	---
NAS6203-8	10-32	0.500	0.823	---
NAS6203-8D	10-32	0.500	0.823	---
NAS6203-9	10-32	0.563	0.886	---
NAS6203-9D	10-32	0.563	0.886	---
NAS6204-10	1/4-28	0.625	0.995	---
NAS6204-10D	1/4-28	0.625	0.995	---
NAS6204-11	1/4-28	0.688	1.058	---
NAS6204-11D	1/4-28	0.688	1.058	---
NAS6204-12	1/4-28	0.750	1.120	---
NAS6204-12D	1/4-28	0.750	1.120	---
NAS6204-13	1/4-28	0.813	1.183	---
NAS6204-13D	1/4-28	0.813	1.183	---
NAS6204-14	1/4-28	0.875	1.245	---
NAS6204-14D	1/4-28	0.875	1.245	---
NAS6204-15	1/4-28	0.938	1.308	---
NAS6204-15D	1/4-28	0.938	1.308	---
NAS6204-16	1/4-28	1.000	1.370	---
NAS6204-16D	1/4-28	1.000	1.370	---
NAS6204-17	1/4-28	1.063	1.433	---
NAS6204-17D	1/4-28	1.063	1.433	---
NAS6204-18	1/4-28	1.125	1.495	---
NAS6204-18D	1/4-28	1.125	1.495	---
NAS6204-19	1/4-28	1.188	1.558	---
NAS6204-19D	1/4-28	1.188	1.558	---
NAS6204-2	1/4-28	0.125	0.495	---
NAS6204-20	1/4-28	1.250	1.620	---
NAS6204-20D	1/4-28	1.250	1.620	---
NAS6204-21	1/4-28	1.313	1.683	---
NAS6204-21D	1/4-28	1.313	1.683	---
NAS6204-22	1/4-28	1.375	1.745	---
NAS6204-22D	1/4-28	1.375	1.745	---
NAS6204-23	1/4-28	1.438	1.808	---
NAS6204-23D	1/4-28	1.438	1.808	---
NAS6204-24	1/4-28	1.500	1.870	---
NAS6204-24D	1/4-28	1.500	1.870	---
NAS6204-25	1/4-28	1.562	1.932	---
NAS6204-28	1/4-28	1.750	2.120	---
NAS6204-3	1/4-28	0.188	0.558	---
NAS6204-4	1/4-28	0.250	0.620	---
NAS6204-4D	1/4-28	0.250	0.620	---
NAS6204-5	1/4-28	0.313	0.683	---
NAS6204-5D	1/4-28	0.313	0.683	---
NAS6204-6	1/4-28	0.375	0.745	---
NAS6204-6D	1/4-28	0.375	0.745	---
NAS6204-7	1/4-28	0.438	0.808	---
NAS6204-7D	1/4-28	0.438	0.808	---
NAS6204-8	1/4-28	0.500	0.870	---
NAS6204-8D	1/4-28	0.500	0.870	---
NAS6204-9	1/4-28	0.563	0.933	---
NAS6204-9D	1/4-28	0.563	0.933	---
NAS6604D15	1/4-28	0.938	1.363	---
691-349	1/4-28	0.938	1.363	---
NAS6205-11	5/16-24	0.688	1.126	---
NAS6205-11D	5/16-24	0.688	1.126	---
NAS6205-12	5/16-24	0.750	1.188	---
NAS6205-13D	5/16-24	0.812	1.250	---
NAS6205-15	5/16-24	0.938	1.376	---
NAS6205-19	5/16-24	1.188	1.626	---
NAS6205-20	5/16-24	1.250	1.688	---
NAS6205-20D	5/16-24	1.250	1.688	---

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NAS SHEAR BOLTS

Part Number	Thread	Grip Length	Length	Price
NAS6205-22	5/16-24	1.375	1.813	---
NAS6205-24D	5/16-24	1.500	1.938	---
NAS6205-4	5/16-24	0.250	0.688	---
NAS6205-5	5/16-24	0.312	0.750	---
NAS6205-6	5/16-24	0.375	0.813	---
NAS6205-6D	5/16-24	0.375	0.813	---
NAS6205-8	5/16-24	0.500	0.938	---
NAS6205-9	5/16-24	0.562	1.000	---
NAS6206-13	3/8-24	0.812	1.266	---
NAS6206-14D	3/8-24	0.875	1.329	---
NAS6206-17	3/8-24	1.062	1.516	---
NAS6206-21	3/8-24	1.312	1.766	---
NAS6206-22	3/8-24	1.375	1.829	---
NAS6206-23	3/8-24	1.438	1.892	---
NAS6206-23D	3/8-24	1.438	1.892	---
NAS6206-32	3/8-24	0.002	2.454	---
NAS6206-9	3/8-24	0.562	1.016	---
NAS6206H-4	3/8-24	0.250	0.704	---
NAS6603-1	10-32	0.063	0.408	---
NAS6603-10	10-32	0.625	0.970	---
NAS6603-11	10-32	0.688	1.033	---
NAS6603-12	10-32	0.750	1.095	---
NAS6603-13	10-32	0.813	1.158	---
NAS6603-14	10-32	0.875	1.220	---
NAS6603-15	10-32	0.938	1.283	---
NAS6603-16	10-32	1.000	1.345	---
NAS6603-17	10-32	1.063	1.408	---
NAS6603-18	10-32	1.125	1.470	---
NAS6603-19	10-32	1.188	1.533	---
NAS6603-2	10-32	0.063	0.408	---
NAS6603-20	10-32	1.250	1.595	---
NAS6603-21	10-32	1.313	1.658	---
NAS6603-22	10-32	1.375	1.720	---
NAS6603-23	10-32	1.438	1.783	---
NAS6603-24	10-32	1.500	1.845	---
NAS6603-3	10-32	0.188	0.533	---
NAS6603-4	10-32	0.250	0.595	---
NAS6603-5	10-32	0.313	0.658	---
NAS6603-6	10-32	0.375	0.720	---
NAS6603-8	10-32	0.500	0.845	---
NAS6603-9	10-32	0.563	0.908	---
NAS6604-10	1/4-28	0.625	1.050	---
NAS6604-11	1/4-28	0.688	1.113	---
NAS6604-12	1/4-28	0.750	1.175	---
NAS6604-13	1/4-28	0.813	1.238	---
NAS6604-14	1/4-28	0.875	1.300	---
NAS6604-15	1/4-28	0.938	1.363	---
NAS6604-16	1/4-28	1.000	1.425	---
NAS6604-17	1/4-28	1.063	1.488	---
NAS6604-18	1/4-28	1.125	1.550	---
NAS6604-19	1/4-28	1.188	1.613	---
NAS6604-20	1/4-28	1.250	1.675	---
NAS6604-21	1/4-28	1.313	1.738	---

Part Number	Thread	Grip Length	Length	Price
NAS6604-22	1/4-28	1.375	1.800	---
NAS6604-23	1/4-28	1.438	1.863	---
NAS6604-24	1/4-28	1.500	1.925	---
NAS6604-3	1/4-28	0.188	0.613	---
NAS6604-4	1/4-28	0.250	0.675	---
NAS6604-5	1/4-28	0.313	0.738	---
NAS6604-56D	1/4-28	3.625	3.870	---
NAS6604-7	1/4-28	0.438	0.863	---
NAS6604-8	1/4-28	0.500	0.925	---
NAS6604-9	1/4-28	0.563	0.988	---
NAS6605-10	5/16-24	0.625	1.094	---
NAS6605-11	5/16-24	0.688	1.157	---
NAS6605-12	5/16-24	0.750	1.219	---
NAS6605-13	5/16-24	0.813	1.282	---
NAS6605-14	5/16-24	0.875	1.344	---
NAS6605-15	5/16-24	0.938	1.407	---
NAS6605-16	5/16-24	1.000	1.469	---
NAS6605-17	5/16-24	1.063	1.532	---
NAS6605-18	5/16-24	1.125	1.594	---
NAS6605-20	5/16-24	1.250	1.719	---
NAS6605-21	5/16-24	1.313	1.782	---
NAS6605-22	5/16-24	1.375	1.844	---
NAS6605-23	5/16-24	1.438	1.907	---
NAS6605-24	5/16-24	1.500	1.969	---
NAS6605-3	5/16-24	0.188	0.657	---
NAS6605-4	5/16-24	0.250	0.719	---
NAS6605-5	5/16-24	0.313	0.782	---
NAS6605-6	5/16-24	0.375	0.844	---
NAS6605-7	5/16-24	0.438	0.907	---
NAS6605-8	5/16-24	0.500	0.969	---
NAS6605-9	5/16-24	0.563	1.032	---
NAS6606-10	3/8-24	0.625	1.203	---
NAS6606-11	3/8-24	0.688	1.266	---
NAS6606-12	3/8-24	0.750	1.328	---
NAS6606-13	3/8-24	0.813	1.391	---
NAS6606-14	3/8-24	0.875	1.453	---
NAS6606-15	3/8-24	0.938	1.516	---
NAS6606-16	3/8-24	1.000	1.578	---
NAS6606-17	3/8-24	1.063	1.641	---
NAS6606-18	3/8-24	1.125	1.703	---
NAS6606-19	3/8-24	1.188	1.766	---
NAS6606-20	3/8-24	1.250	1.828	---
NAS6606-21	3/8-24	1.313	1.891	---
NAS6606-22	3/8-24	1.375	1.953	---
NAS6606-23	3/8-24	1.438	2.016	---
NAS6606-24	3/8-24	1.500	2.078	---
NAS6606-3	3/8-24	0.188	0.766	---
NAS6606-4	3/8-24	0.250	0.828	---
NAS6606-5	3/8-24	0.313	0.891	---
NAS6606-6	3/8-24	0.375	0.953	---
NAS6606-7	3/8-24	0.438	1.016	---
NAS6606-8	3/8-24	0.500	1.078	---
NAS6606-9	3/8-24	0.563	1.141	---

ENGINE BOLTS / HARDWARE KITS

MS20073 / MS20074 ENGINE BOLTS

Part No.	Old AN	Thread	Grip	Length	Price
MS20073-03-04	AN73-4	1032 Fine Thread	0.0620	0.5940	---
MS20073-03-05	AN73-5	1032 Fine Thread	0.1250	0.6560	---
MS20073-03-06	AN73-6	1032 Fine Thread	0.2500	0.7810	---
MS20073-04-03	AN74-3	1/4-28 Fine Thread	0.0620	0.4690	---
MS20073-04-04	AN74-4	1/4-28 Fine Thread	0.0620	0.5940	---
MS20073-04-06	AN74-6	1/4-28 Fine Thread	0.2500	0.7810	---
MS20073-04-07	AN74-7	1/4-28 Fine Thread	0.3750	0.9060	---
MS20074-03-03	AN73A3	1024 Coarse Thread	0.0620	0.4690	---
MS20074-03-04	AN73A4	1024 Coarse Thread	0.0620	0.5940	---

METRIC PROP BOLTS

Description	Part No.	Price
Prop Bolt 8x70mm Drilled Head For Safety Wire	15-04929	---
Prop Bolt 8x80mm Drilled Head For Safety Wire	15-04930	---
Prop Bolt 8x90mm Drilled Head For Safety Wire	15-04931	---

BEGINNER'S BOLT KITS

UNDRILLED KIT
102 PIECES

AN3	QTY	AN4	QTY	AN5	QTY
-3A	4	-5A	6	-4A	6
-4A	6	-6A	6	-6A	6
-5A	6	-7A	6	-10A	6
-6A	6	-10A	6	-11A	6
-7A	6	-11A	6	-13A	4
-10A	6	-15A	4	-14A	6

P/N 04-00090 ..... ---

DRILLED KIT
102 PIECES

AN3	QTY	AN4	QTY	AN5	QTY
-4	6	-6	6	-6	6
-5	6	-7	6	-10	6
-6	6	-10	6	-14	6
-7	6	-12	6	-15	4
-10	6	-13	6	-16	6
-11	4	-14	4	-17	6

P/N 04-00100 ..... ---

HOMEBUILDER'S KIT

CADMIUM PLATED
629 PIECES / AN BOLTS CONTAINS 4 EACH

DRILLED			UNDRILLED		
AN3-4	AN3-14	AN4-11	AN3-4A	AN3-14A	AN4-11A
AN3-5	AN3-15	AN4-12	AN3-5A	AN3-15A	AN4-12A
AN3-6	AN3-16	AN4-13	AN3-6A	AN3-16A	AN4-13A
AN3-7	AN3-17	AN4-14	AN3-7A	AN3-17A	AN4-14A
AN3-10	AN3-20	AN4-15	AN3-10A	AN3-20A	AN4-15A
AN3-11	AN4-6	AN4-16	AN3-11A	AN4-6A	AN4-16A
AN3-12	AN4-7	AN4-17	AN3-12A	AN4-7A	AN4-17A
AN3-13	AN4-10	AN4-20	AN3-13A	AN4-10A	AN4-20A

Also Included:

NYLON INSERT LOCKNUTS		FLAT WASHERS	
ITEM #	QTY		
AN365-1032	52	AN960-10	30
AN365-428	44	AN960-10L	30
		AN960-416	30
		AN960-416L	30

CASTLE NUTS		COTTER PINS	
ITEM #	QTY	ITEM #	QTY
AN310-3	52	AN380-2-2	125
AN310-4	44		

P/N 04-00230 ..... ---

Part No.	Old AN	Thread	Grip	Length	Price
MS20074-04-03	AN74A3	1/4-20 Coarse Thread	0.0620	0.4690	---
MS20074-04-04	AN74A4	1/4-20 Coarse Thread	0.0620	0.5940	---
MS20074-04-05	AN74A5	1/4-20 Coarse Thread	0.1250	0.6560	---
MS20074-04-06	AN74A6	1/4-20 Coarse Thread	0.2500	0.7810	---
MS20074-04-07	AN74A7	1/4-20 Coarse Thread	0.3750	0.9060	---
MS20074-04-12	AN75A12	1/4-20 Coarse Thread	.7500	1.2810	---
MS20074-04-21	AN74A21	1/4-20 Coarse Thread	1.6250	2.1560	---
MS20074-06-06	AN76A6	3/8-16 Coarse Thread	.1250	.7970	---

BOLT 8MM X 20 COARSE

Hex head screw 8mm x 20, steel. Zinc plated.
P/N 15-05052 ..... ---

ADVANCED MECHANIC'S KIT

CADMIUM PLATED

DRILLED	UNDRILLED	AN3	AN4	AN5	AN6
-4	-4A	3	3	3	3
-5	-5A	3	3	3	3
-6	-6A	3	3	3	3
-7	-7A	3	3	3	3
-10	-10A	3	3	3	3
-11	-11A	3	3	3	3
-12	-12A	3	3	3	3
-13	-13A	3	3	3	3
-15	-15A	3	3	3	3

Also Includes:

FLAT WASHERS		NYLON INSERT LOCKNUTS	
ITEM #	QTY	ITEM#	QTY
AN960-10	100	AN365-1032	27
AN960-416	100	AN365-428	27
AN960-516	100	AN365-524	27
AN960-616	100	AN365-624	27

COTTER PINS		CASTLE NUTS	
ITEM #	QTY.	ITEM#	QTY
AN380-2-3	100	AN310-3	27
AN380-25-3	200	AN310-4	27
AN380-3-3	100	AN310-5	27
		AN310-6	27

P/N 04-00240 ..... ---

DELUXE BOLT PACK

UNDRILLED KIT BOLTS
500 PIECES

AN3	QTY	AN4	QTY	AN5	QTY
-3A	10	-5A	10	-6A	10
-4A	10	-6A	10	-10A	10
-5A	10	-7A	10	-12A	10
-6A	10	-10A	10	-16A	10
-7A	10	-11A	10		
-10A	10	-12A	10		
-11A	10	-13A	10		
-12A	10	-14A	10		
-13A	10	-15A	10		
-14A	10	-16A	10		
-15A	10	-17A	10		
-16A	10	-22A	10		
-17A	10	-24A	10		
-20A	10	-26A	10		

DRILLED KIT BOLTS

AN3	QTY	AN4	QTY	AN5	QT
-5	10	-6	10	-7	10
-6	10	-7	10	-14	10
-7	10	-10	10	-17	10
-10	10	-12	10	-24	10
-12	10	-16	10		
-15	10	-20	10		
-20	10				
-24	10				

P/N 04-00245 ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ECONOMY AN BOLT ASSORTMENTS

BOLT ASSORTMENT - UNDRILLED

Qty	Part No.	Qty	Part No.	Qty	Part No.
10	AN3-3A	4	AN4-4A	4	AN5-5A
10	AN3-4A	4	AN4-5A	4	AN5-6A
10	AN3-5A	4	AN4-6A	4	AN5-7A
10	AN3-6A	4	AN4-7A	4	AN5-10A
10	AN3-7A	4	AN4-10A	4	AN5-11A
10	AN3-10A	4	AN4-11A	4	AN5-12A
4	AN3-11A	4	AN4-12A	4	AN5-13A
4	AN3-12A	4	AN4-13A	4	AN5-14A
4	AN3-13A	4	AN4-14A	4	AN5-15A
4	AN3-14A	4	AN4-15A	4	AN5-16A
4	AN3-15A	4	AN4-16A	4	AN5-17A
4	AN3-16A	4	AN4-17A	4	AN5-20A
4	AN3-17A	4	AN4-20A	4	AN5-24A
4	AN3-20A	4	AN4-24A		
4	AN3-24A				

204-piece Undrilled Assortment .....P/N 04-00105 ..... ---
Above with 44-Drawer Cabinet .....P/N 04-00110 ..... ---

BOLT ASSORTMENT - DRILLED

Qty	Part No.	Qty	Part No.	Qty	Part No.
10	AN3-3	4	AN4-4	4	AN5-5
10	AN3-4	4	AN4-5	4	AN5-6
10	AN3-5	4	AN4-6	4	AN5-7
10	AN3-6	4	AN4-7	4	AN5-10
10	AN3-7	4	AN4-10	4	AN5-11
10	AN3-10	4	AN4-11	4	AN5-12
4	AN3-11	4	AN4-12	4	AN5-13
4	AN3-12	4	AN4-13	4	AN5-14
4	AN3-13	4	AN4-14	4	AN5-15
4	AN3-14	4	AN4-15	4	AN5-16
4	AN3-15	4	AN4-16	4	AN5-17
4	AN3-16	4	AN4-17	4	AN5-20
4	AN3-17	4	AN4-20	4	AN5-24
4	AN3-20	4	AN4-24	4	
1	AN3-24	4		4	

204-piece Drilled Assortment .....P/N 04-00115 ..... ---
Above with 44-Drawer Cabinet .....P/N 04-00120 ..... ---

HA

ECONOMY COMBINED AN BOLT ASSORTMENT

Both drilled and undrilled assortments shown above
P/N 04-00125..... ---

Both assortments shown above with 16-Drawer & 64-Drawer storage cabinets .. P/N 04-00130..... ---

ECONOMY WASHER & COTTER PIN ASSORTMENTS

To Accompany AN Bolt Assortments Shown Above

Washers For Undrilled Assortment	Washers & Cotter Pins For Drilled Bolt Assortment	Washers & Cotter Pins For Combined Assortment
P/N 04-00135 ..... ---	P/N 04-00140..... ---	P/N 04-00145..... ---

WASHER ASSORTMENTS

1,500 PIECES - STAINLESS

Contains 100 each of the following:
- 6, 8 & 10 AN960C & AN960CL
- 6, 8 & 10 Nylon
- 6, 8 & 10 MS35333
- 6, 8 & 10 MS35338.....P/N 04-00220 .....

WASHER ASSORTMENTS

1,500 PIECES - CAD-PLATED

Contains 100 each of the following:
6, 8 & 10 AN960 & AN960L
6, 8 & 10 Nylon Washer
6, 8 & 10 MS35333
6, 8 & 10 MS35338 .....P/N 04-00215 .....

OILITE BRONZE FLANGED BUSHINGS

Oillite bronze bushings are highly heat resistant, ductile, conformable and corrosion resistant.

Model No.	Part No.	Hole I.D.	Hole O.D.	Length	Flange O.D.	Flange Thickness	Price Each
FB46-02	04-01646	1/4	3/8	1/4	1/2	3/64	---
FB810-04	04-01647	1/2	5/8	1/2	7/8	1/8	---
FB810-08	04-01648	1/2	5/8	1	7/8	1/8	---
FB812-08	04-01649	1/2	3/4	1	1	1/8	---
FB1012-04	04-01639	5/8	3/4	1/2	1	1/8	---
FB1012-08	04-01640	5/8	3/4	1	1	1/8	---
FB-1013-08	04-01641	.6270	.8150	1	1-1/16	5/32	---
FB1214-06	04-01642	3/4	7/8	3/4	1-1/8	5/32	---
FB-1620-06	04-01644	1	1-1/4	3/4	1-1/2	3/16	---
FB1620-10	04-01645	1	1-1/4	1-1/4	1-1/2	3/16	---
FF303-01	04-01650	3/16	5/16	3/16	7/16	1/16	---
FF312-02	04-01651	.252	.3775	1/2	15/32	1/16	---
FF435-1	04-01652	1/4	7/16	1/2	1/2	1/16	---
FF512-03	04-01653	.3765	.5030	5/8	5/8	3/32	---
FF520-10	05-02114	3/8	1/2	3/8	5/8	1/16	---
FF520-15	FF520-15	3/8	1/2	1/4	5/8	1/16	---
FF620-01	04-01654	.5020	.6270	1/2	7/8	1/16	---
FF730-03	04-01655	5/8	3/4	5/8	1	3/32	---

ECONOMY SCREW PACKS

1/2" 100° 600-Piece Screw Pack

Flat Phillips - AN507C Machine Screws		Flat Phillips Sheet Metal Screws	
100	6-32 x 1/2	100	6 x 1/2B
100	8-32 x 1/2	100	8 x 1/2B
100	10-32 x 1/2	100	10 x 1/2B

Stainless .....P/N 04-00185 ..... ---
Steel Plated .....P/N 04-00180 ..... ---

1/2" 600-Piece Screw Pack

Truss Phillips - AN526C Machine Screws		Truss Phillips Sheet Metal Screws	
100	6-32 x 1/2	100	6 x 1/2A
100	8-32 x 1/2	100	8 x 1/2A
100	10-32 x 1/2	100	10 x 1/2A

Stainless .....P/N 04-00195 ..... ---
Steel Plated .....P/N 04-00190 ..... ---

1/2"900-Piece Screw Pack

The entire contents of 600-piece pack shown above plus the following:

AN507C 100° CSK
Flat Phillips Machine Screws

100.....6-32 x 1/2 100.....8-32 x 1/2 100..... 10-32 x 1/2

Stainless .....P/N 04-00210 .....---
Steel plated .....P/N 04-00205 .....---

OILITE BRONZE STRAIGHT BUSHINGS

Oilite Impregnated Bronze. SAE 841.

Model No.	Part No.	Hole I.D.	Hole O.D.	Length	Price Ea.
AA304-20	05-01856	1/4	3/8	1	---
AA309-5	05-01857	3/16	5/16	3/4	---
B812-6	05-02098	1/2	3/4	3/4	---
B812-7	05-02099	1/2	3/4	7/8	---
B610-6	04-01944	3/8	5/8	3/4	---
8363	05-04543	5/8	1	1-1/8	---

HARDWARE KITS

HA

ECONOMY SCREW KIT
STAINLESS STEEL - 2,100 PIECES

AN526C Machine Truss Phillips

AN507C Machine 100° CSK, Flat Phillips

Sizes 6-32, 8-32, 10-32

100	1/2"	100	1/2"
50	5/8"	50	5/8"
25	3/4"	25	3/4"
25	1"	25	1"

Sheet Metal Truss Phillips

Sheet Metal 100° CSK, Flat Phillips

Sizes 6, 8, 10

100	1/2"	100	1/2"
50	5/8"		
25	3/4"		
25	1"		

Stainless Kit ..... P/N 04-00290 ..... ---

SCREW KITS
LARGE ASSORTMENT 2,250 PIECES

AN526 Machine Screw, Truss Phillips

Sheet Metal Screw, Truss Phillips

100	4-40 x 1/2	100	4 x 1/2
100	6-32 x 1/2	100	6 x 1/2
100	8-40 x 3/8	100	8 x 1/2
100	8-32 x 1/2	100	8 x 1/2B
100	10-32 x 1/2	100	10 x 1/2
100	10-32 x 3/4		

AN507 100° CSK Machine Screw, FP

100	6-32 x 1/2
100	8-32 x 1/2
100	10-32 x 1/2

Nylon Insert Locknuts

50	6-32
50	8-32
50	10-32

Flat Washer AN960

100	6
100	8
100	10

Nylon Washers

100	6
100	8
100	10

100° CSK Washers

50	8
50	10

Stainless Kit ..... P/N 04-00295 ..... ---
Steel Plated Kit ..... P/N 04-00296 ..... ---

NUT-COTTER PIN ASSORTMENTS

CAD-PLATED COTTER PIN KIT

400 PCS

100	1/16 x 1/2"	50	1/8 x 1"
100	5/64 x 1/2"	25	5/32 x 2"
100	3/32 x 1/2"	25	3/16 x 2"

P/N 04-00155 ..... ---

500 PCS

100	1/16 x 1/2"	50	1/16 x 1-1/2"
100	5/64 x 3/4"	50	5A/32 x 2"
100	3/32 x 1"	25	A3/16 x 2"
50	1/8 x 3/4"	25	3/16 x 2-1/2"

P/N 04-00165 ..... ---

STAINLESS STEEL COTTER PIN KIT

400 PCS

100	1/16 x 1/2"	50	1/8 x 1"
100	5/64 x 1/2"	25	5/32 x 2"
100	3/32 x 1/2"	25	3/16 x 2"

P/N 04-00150 ..... ---

500 PCS

100	1/16 x 1/2"	50	1/16 x 1-1/2"
100	5/64 x 3/4"	50	5A/32 x 2"
100	3/32 x 1"	25	A3/16 x 2"
50	1/8 x 3/4"	25	3/16 x 2-1/2"

P/N 04-00160 ..... ---

DELUXE COTTER PIN KITS
850 PCS

AN380 - Cad-Plated

Dash	Size	Qty.	Dash	Size	Qty.
-1-2	1/32 x 1/2"	50	-3-4	3/32 x 1"	75
-1-4	1/32 x 1"	50	-3-6	3/32 x 1-1/2"	25
-2-2	1/16 x 1/2"	100	-3-8	3/32 x 2"	25
-2-3	1/16 x 3/4"	100	-4-3	1/8 x 3/4"	25
-2-4	1/16 x 1"	100	-4-5	1/8 x 1-1/4"	75
-25-2	5/64 x 1/2"	25	-4-8	1/8 x 2"	50
-25-3	5/64 x 3/4"	25	-4-10	1/8 x 2-1/2"	50
-3-3	3/32 x 3/4"	75	P/N 04-00375 ..... ---		

AN381 - Stainless

Dash	Size	Qty.	Dash	Size	Qty.
-1-8	1/16 x 1/2"	100	-3-16	3/32 x 1"	75
-2-12	1/16 x 3/4"	100	-3-24	3/32 x 1-1/2"	25
-2-16	1/16 x 1"	100	-4-12	1/8 x 3/4"	25
-2-24	1/16 x 1-1/2"	50	-4-16	1/8 x 1"	50
-25-8	5/64 x 3/4"	50	-4-24	1/8 x 1-1/2"	25
-25-12	5/64 x 1/2"	75	-4-32	1/8 x 2"	25
-3-8	3/32 x 1/2"	75	-4-40	1/8 x 2-1/2"	25
-3-12	3/32 x 3/4"	50	P/N 04-00380 ..... ---		

ECONOMY NUT PACKS

AN365C NUT KIT STAINLESS

Qty.	P/N	Qty.	P/N
25	4-40	50	6-32
50	8-32	50	0-32
25	1/4-28		

AN365 NUT KIT CAD-PLATED

Qty.	P/N	Qty.	P/N
50	4-40	100	6-32
100	8-32	100	10-32
50	1/4-28		

Stainless Kit ..... P/N 04-00170 ..... ---
Cad Plated Kit ..... P/N 04-00175 ..... ---

LOCKNUT KIT
CAD-PLATED. FOR UNDRILLED BOLT ASSORTMENT.

100 ea ... AN365-1032 56 ea ..... AN365-428 52 ea AN365-524
P/N 04-00330 ..... ---

AN365C NUT KIT
STAINLESS 200 PIECES

50 ea .... 632 50 ea ... 832 50 ea... 1032 25 ea .... 428 25 ea 524
P/N 04-00340 ..... ---

AN365 NUT KIT
CAD-PLATED - 400 PIECES

100 ea .. 632 100 ea .. 832 100 ea.. 1032 50 ea .... 428 50 ea 524
P/N 04-00345 ..... ---

CASTLE NUT KIT 208 PIECES
CAD-PLATED. FOR DRILLED BOLT ASSORTMENT.

100 ea... AN310-3 56 ea.... AN310-4 52 ea ... AN310-5
P/N 04-00335 ..... ---

470 PIECE COMBO NUT ASSORTMENT

Nylon Insert Locknuts

Item #	Qty.
AN365-632	15
AN365-832	50
AN365-1032	50
AN365-428	50
AN365-524	15

Castle Nuts

Item #	Qty.
AN310-3	50
AN310-4	50
AN310-5	15
AN310-6	15

Plain Hex Nuts

Item #	Qty.
AN315-3	25
AN315-4	25
AN315-5	15
AN315-6	15

Shear Castle Nuts

Item #	Qty.
AN320-3	25
AN320-4	25
AN320-5	15
AN320-6	15

P/N 04-00350 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

HARDWARE KITS

DELUXE BOLT PACK

700 BOLTS - 50 Sizes, individually packaged. AN3, AN4 and AN5 bolts in lengths from 3/8" to 2-3/4" with drilled and undrilled shanks, in quantities selected to accommodate popular usage. Furnished with a 44-drawer storage cabinet. An exceptionally fine value.

P/N 04-00200 ..... ---

Part No.	Qty.	Length
3/16" Diameter, Undrilled Shank		
AN3-3A	10	3/8"
AN3-4A	15	1/2"
AN3-5A	25	5/8"
AN3-6A	25	3/4"
AN3-7A	12	7/8"
AN3-10A	30	1"
AN3-11A	30	1-1/8"
AN3-12A	30	1-1/4"
AN3-13A	20	1-3/8"
AN3-14A	20	1-1/2"
AN3-15A	20	1-5/8"
AN3-16A	20	1-4/3"
AN3-17A	20	1-7/8"
AN3-20A	12	2"
3/16" Diameter, Drilled Shank		
AN3-5	15	5/8"
AN3-6	20	3/4"
AN3-7	20	7/8"
AN3-10	20	1"
AN3-12	10	1-1/4"
AN3-15	10	1-5/8"
AN3-20	8	2"
AN3-24	8	2-1/2"
1/4" Diameter, Undrilled Shank		
AN4-5A	24	5/8"
AN4-6A	24	3/4"
AN4-7A	24	7/8"
1/4" Diameter, Undrilled Shank		
AN4-10A	24	1"
AN4-11A	12	1-1/8"
AN4-12A	12	1-1/4"
AN4-13A	12	1-3/8"
AN4-14A	12	1-1/2"
AN4-15A	12	1-5/8"
AN4-16A	12	1-3/4"
AN4-17A	12	1-7/8"
AN4-22A	6	2-1/4"
AN4-24A	6	2-1/2"
AN4-26A	6	2-3/4"
1/4" Diameter, Drilled Shank		
AN4-6	10	3/4"
AN4-7	10	7/8"
AN4-10	10	1"
AN4-12	10	1-1/4"
AN4-16	6	1-3/4"
AN4-20	6	2"
5/16" Diameter Undrilled Shank		
AN5-6A	6	3/4"
AN5-10A	8	1"
AN5-12A	6	1-1/8"
AN5-16A	6	1-3/4"
5/16" Diameter Drilled Shank		
AN5-7	6	7/8"
AN5-14	6	1-1/2"
AN-17	6	1-7/8"
AN5-24	6	2-1/2"

DELUXE WASHER & COTTER PIN PACK

2000 WASHERS, 700 COTTER PINS - 31 Items, individually packaged. A combination of flat washers in steel and anodized aluminum, regular and light weight, large-area washers, internal locking type, Tinnerman countersunk washers and six useful sizes of cotter pins. 26 Drawer hardware cabinet included .....P/N 04-00300 ..... ---

Part No.	Qty.	Size
Steel, Regular Flat		
AN960-6	100	#6
AN960-8	100	#8
AN960-10	250	3/16"
AN960-416	200	1/4"
AN960-516	100	5/16"
Steel, Light Flat		
AN960-6L	100	#6
AN960-8L	100	#8
AN960-10L	100	3/16"
AN960-416L	100	1/4"
AN960-516L	50	5/16"
Anod. Alum. Regular Flat		
AN960PD10	50	3/16"
AN960PD416	50	1/4"
Anod. Alum. Light Flat		
AN960PD10L	50	3/16"
AN960PD416L	050	1/4"
Steel, Large Flat		
AN970-3	25	3/16"
AN970-4	14	1/4"
Part No.	**Qty.**	**Size**
Steel, Large Flat (cont'd.)		
AN970-5	11	5/16"
Steel, Internal Lock		
MS35333-37	50	#6
MS35333-38	50	#8
MS35333-39	50	#10
MS35333-40	50	1/4"
MS35333-41	50	5/16"
Tinnerman Countersunk		
A3236-012-24A	100	#6
A3135-017-24A	100	#8
A3235-028-24A	100	#10
Cotter Pins		
Part No.	**Qty.**	**Size**
MS24665-132	225	1/16" x 1/2"L
MS24665-134	200	1/16" x 3/4"L
MS24665-136	200	1/16 x 1"L
MS24665-283	50	3/32" x 3/4"L
MS24665-285	13	3/32" x 1"L
MS24665-360	12	1/8" x 2"L

ASSORTED HARDWARE KITS

HOMEBUILDERS HARDWARE KIT

Contains: • 78 AN3 (10-32 size) Undrilled bolts in 13 consecutive sizes from AN3-4A through AN3-20A • 66 AN4 (1/4" dia.) Undrilled Bolts in 11 consecutive sizes from AN4-6A through AN4-20A • 100 AN365-1032 Stop Nuts • 100 AN365-428 Stop Nuts • 100 AN960-10 Washers • 100 AN960-416 Washers •100 AN380-2-2 Cotter Pins .....P/N 04-00400 .....---
With 26-Drawer Storage Cabinet .....P/N 04-00500 .....---

MECHANICS HARDWARE KIT

Contains: • AN3 (10-32 size) Bolts from 1/2" to 3" long • AN4 (1/4" dia.) Bolts from 1" to 4" long • AN5 (5/16" dia.) Bolts from 1" to 4" long • AN6 (3/8" dia.) Bolts from 1-3/4" to 4-1/2" long • 300 AN960 Washers • 75 AN365 Stop Nuts • 100 AN380 Cotter Pins. Bolts are furnished with drilled and undrilled shanks. The proper number, size and type of nuts, washers and cotter pins are furnished to mate with bolts. Click "Expanded Kit Components" for a complete hardware list .....P/N 04-00600 .....---
With (1) 26 & (1) 64 -Drawer Storage Cabinets.....P/N 04-00700 .....---

HARDWARE KITS

DELUXE SCREW PACK

3500 SCREWS - 55 Items, individually packaged. A good working assortment of standard screws including truss head, 100° flat head and structural type, washer head, 100° flat head sheet metal screws for use with Tinnerman countersunk washers, truss head sheet metal screws, both sharp and blunt point, & brass instrument screws. 44-Drawer cabinet Included.

P/N 04-00800 ..... ---

Part No.	Qty.	Size
AN 526 Truss Hd Screw, Phillips		
AN526-632R6	100	6-32 x 3/8”
AN526-632R8	100	x 1/2”
AN526-632R10	100	x 5/8”
AN526-632R12	100	x 3/4”
AN526-832R6	100	8-32 x 3/8”
AN526-832R8	100	x 1/2”
AN526-832R10	100	x 5/8”
AN526-832R12	100	x 3/4”
AN526-1032R8	100	10-32 x 1/2”
AN526-1032R10	100	x 5/8”
AN526-1032R12	100	x 3/4”
AN526-1032R16	50	x 1”
AN507 Screws 100° C snk Flat Head Phillips		
MS2469326	100	6-32 x 3/8”
MS24693S28	100	x 1/2”
MS24693S29	100	x 5/8”
MS24693S10	100	x 3/4”
MS24693S31	100	x 7/8”
MS24693S48	100	8-32 x 3/8”
MS24693S50	100	x 1/2”
MS24693S51	100	x 5/8”
MS24693S52	100	x 3/4”
MS24693S54	50	x 1”
MS24693S58	25	x 1-1/2”
MS24693S272	100	x 1/2”
MS24693S273	100	x 5/8”
MS24693S274	100	x 3/4”
MS24693S276	50	x 1”
MS24693S280	25	x 1-1/2”
Brass Instrument Screws Round Head Phillips		
AN515B6R12	25	6-32 x 3/4”
AN509 Structural Screws 100°C snk Flat Head Phillips		
MS24694S5	25	8-32 x 1/2”
MS24694S7	25	x 5/8”
MS24694S9	25	x 3/4”
MS24694S50	25	10-32 x 1/2”
MS24694S52	25	x 5/8”
MS24694S54	25	x 3/4”
Washer Head Structural Screws		
AN525-832R8	25	8-32 x 1/2”
AN525-832R10	25	x 5/8”
AN525-1032R8	25	10-32 x 1/2”
AN525-1032R10	25	x 5/8”
AN525-1032R12	25	x 3/4”
Sheet Metal Screws 100°C snk Flat Head Phillips		
NAS548P-6	100	#6 x 3/8”
NAS548P6-8	100	x 1/2”
NAS548P6-10	100	x 5/8”
NAS548P8-8	100	#8 x 1/2”
NAS548P8-10	100	x 5/8”
Sheet Metal Screws, Truss Hd “B”		
#4R x 1/4”	100	Phillips
#4R x 3/8”	100	Blunt Point
#4R x 1/2”	100	
#6R x 3/8”	100	
#6R x 1/2”	100	
#6R x 5/8	100	
#8R x 1/2”	100	
#8R x 3/4”	100	
Sheet Metal Screws, Truss Hd “A”		
#4R x 1/2”	200	Phillips
#6R x 1/2”	200	Sharp Point

DELUXE NUT PACK

1000 NUTS - 29 Items, individually packaged. Nuts have been carefully selected to include every commonly used type in aircraft assembly - Self-locking, castle, plain hex, Pal, Tinnerman and all-metal two-lug anchor nuts not found in other hardware assortments. 26-Drawer Cabinet Included.....P/N 04-00900 ..... ---

Part No.	Qty.	Size
Elastic Stop Nuts		
AN365-632A	25	6-32
AN365-832A	25	8-32
AN365-1032A	75	10-32
AN365-428A	50	1/4 x 28
AN365-524A	25	5/16 x 24
All Metal Stop Nuts		
MS21042-3	75	10-32
MS21042-4	25	1/4 x 28
Castle Nuts		
AN310-3	50	10-32
AN310-4	50	1/4 x 28
AN310-5	14	5/16 x 24
Shear Castle Nuts		
AN320-3	12	10-32
AN320-4	12	1/4 x 28
AN320-5	12	5/16 x 24
Plain Hex Nuts		
AN315-3	25	10-32
AN315-4	25	1/4 x 28
AN315 -5	25	5/16 x 24
Check Nuts		
AN315-3	25	10-32
AN316-4	25	1/4 x 28
Palnuts		
MS27151-7	25	10-32
MS27151-13	25	1/4 x 28
MS27151-16	25	5/16 x 24
Tinnerman Nuts, Flat Type		
#1777-6Z-1	50	#6
#1778-8Z-1	50	#8
#1779-10Z-1	25	#10
Tinnerman Nuts, U Type		
#1784-6Z-1	50	#6
#A1932-8Z-1	50	#8
Two Lug Anchor Nuts		
K1000-08	50	8-32
K1000-3	50	10-32
K1000-4	25	1/4 x 28

HARDWARE CABINETS

Heavy-duty small parts organizer cabinets. The “see-thru” clear plastic drawers measure 1-1/4” x 2-3/4” x 5-3/4”. The plastic cabinets are black. Furnished with adjustable drawer dividers. 16 drawer is white plastic.

CABINETS

16-Drawer .....P/N 04-01464 ..... ---
26-Drawer .....P/N 04-01465 ..... ---
44-Drawer .....P/N 04-01466 ..... ---
Lg Dividers (25) .....P/N 40-501 ..... ---

PORTABLE ORGANIZERS

11-46 compartments....P/N 04-01469 ..... ---
64-Drawer .....P/N 04-01467 ..... ---
Lg Dividers (6) .....P/N 04-02039 ..... ---
Sm Dividers (16).....P/N 04-02037 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AIRFRAME NUTS

AN310 CASTLE, AN320 SHEAR NUTS

Fabricated from steel & cadmium plated per QQ-P-416, Type II, Class 2. AN310 castle nuts are used with drilled-shank bolts, clevis bolts, eye bolts and studs. The slots in the nut accommodate a cotter pin for safety purposes. The thinner AN320 castellated shear nut, with half tensile rating of the AN310 nut, used with clevis bolts & threaded taper pins which are subject to shearing stress only.

AN310, AN320 Dash No.	Thread Size	Cotter Pin Size	AN310 Cad Plated Nuts Price	AN310C Stainless Nuts	AN320 Cad Plated Each	AN320C Stainless Nuts
-3	10-32	AN380-2-2	---	---	---	---
-4	1/4-28		---	---	---	---
-5	5/16-24		---	---	---	---
-6	3/8-24	AN380-3-3	---	---	---	---
-7	7/16-20		---	---	---	---
-8	1/2-20		---	---	---	---
-9	9/16-18	AN380-4-4	---	---	---	---
-10	5/8-18		---	---	---	---
-12	3/4-16	AN380-4-5	---	---	---	---

AN315 FULL HEX, AN316 THIN CHECK NUTS

Fabricated from steel and cadmium plated per QQ-P-416, Type II, Class 2. The AN315 plain hex nut is of rugged construction and can carry the same high tension load as the AN310 castle nut. It requires an auxiliary locking device such as a check nut or lock washer. AN316 hex check nuts can carry half the tension load of the AN315 nut. They are used as a locking device for plain nuts, set screws, rod ends, etc. Order by AN number. Add R or L after dash number for right-hand or left-hand thread.

Example: AN316-5L is a thin check nut with 5/16-24 left-hand thread.

AN315	Price Ea.		Thread Size	AN316	Price Ea.	
	R	L			R	L
-640	---	---	6-40	None	None	None
-3	---	---	10-32	None	None	None
-4	---	---	1/4-28	-4	---	---
-5	---	---	5/16-24	-5	---	---
-6	---	---	3/8-24	-6	---	---
-7	---	---	7/16-20	-7	---	---
-8	---	---	1/2-20	-8	---	---
-9	---	---	9/16-18	-9	---	---

AN340 PLAIN HEX MACHINE SCREW NUT

Coarse Thread - Use brass type for instruments.

Thread	Dash#	AN340 Cad-Plated Price	AN340C Stainless Price	AN340B Brass Price
6-32	-6	---	---	---
8-32	-8	---	---	---
10-24	-10	---	---	---

AN345 PLAIN HEX MACHINE SCREW NUT

• Cad-Plated (MS35650) • Stainless (MS35650) • Brass (MS35650)

Material	Fine Thread	Part No.	Price
Cad Plated	10-32	AN345-10	---
Cad Plated	1/4-28	AN345-428	---
Cad Plated	5/16	AN345-524	---
Cad Plated	3/8-24	AN345-624	---
Stainless	10/32	AN345C10	---
Stainless	1/4-28	AN345C428	---
Brass	10-32	AN345-B10	---

AN350 WING NUTS

AN350 WING NUTS Fabricated from carbon steel and cadmium plated per specification QQ-P416A, Type II, Class 3. Tensile strength 50,000 PSI. A .070" hole is drilled in one wing for safety wire.

Dash No.	Thread Size	Price	Dash No.	Thread Size	Price
-632	3-32	---	-4	1/4-28	---
-832	8-32	---	-5	5/16-24	---
-1032	10-32	---			

CAP NUTS ("ACORN NUTS")

Use these solid brass cap nuts to attach instrument panels to stud-type shock mounts. Give the panel an attractive, finished appearance and do not introduce magnetic interference.

Part No.	Thread Size	Price Ea.
AC632	6-32	---
AC832	8-32	---

Part No.	Thread Size	Price Ea.
AC1032	10-32	---
AC1428	1/4-28	---

MS27151 PAL NUTS

MS27151 engine nuts replace AC356 Pal nuts. They are stamped from 1050 spring steel and cadmium plated per QQ-P-416A, Type II, Class 2.

Dash No.	Thread Size	Price Each	Dash No.	Thread Size	Price Each
-13	1/4-28	---	-21	7/16-20	---
-16	5/16-24	---	-24	1/2-20	---
-19	3/8-24	---			

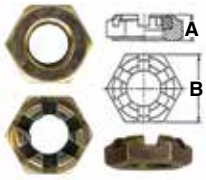
MS17825 SELF-LOCKING CASTLE NUTS

Manufactured to standard castle or shear nut specifications with a nylon insert added for positive safety. Use it throughout the control system. Should the cotter pin used with castle nuts be overlooked, the nut cannot work loose. The nylon insert will act as a stop nut.

Dash No.	Thread Size	Price
-3	10.32	---
-4	1/4-28	---
-5	5/16-24	---

Dash No.	Thread Size	Price
-6	3/8-24	---
-7	7/16-20	---

MS17826 SELF LOCKING NUTS



MS17826 Nylon Hex Nut. Self-Locking Nut, Castellated, Hexagon, 250 Deg.F, Thin, Non-Metallic Insert Material- Alloy Steel, Finish-CAD Per QQ-P-416 Type II.

Model	Part No.	Steel Dash#	Thread Size	A Dim	B Dim	Price
MS17826-3	04-01367	3	10-32	.173-.203	.367-.376	---
MS17826-4	04-01368	4	1/4-28		.430-.439	---
MS17826-5	04-01369	5	5/16-24		.492-.502	---
MS17826-6	04-01370	6	3/8-24	.204-.234	.553-.564	---
MS17826-7	04-01371	7	7/16-20		.679-.690	---
MS17826-8	04-01372	8	1/2-20	.235-.265	.741-.752	---

EXHAUST MANIFOLD NUTS

Part No.	Thread Size	Type	Engine Application	Price Each
STD1410	5/16-18	Steel	Lycoming	---
STD1411	1/4-20	Steel	Lycoming	---

MS21042 HEX NUTS (LUBED)

These are the same as MS21042- but have a dry film lube (dark grey).

Dash No.	Thread Size	Price Each
-L06	6-32	---
-L08	8-32	---

Dash No.	Thread Size	Price Each
-L3	10-32	---
-L4	1/4-28	---

Dash No.	Thread Size	Price Each
-L5	5/16-24	---
-L6	3/8-24	---

MS21043 HEX NUTS (STAINLESS STEEL)

These are the same as MS21042 but are made from A-286 stainless steel and are silver plated.

Dash No.	Thread Size	Price Each
-04	4-40	---
-06	6-32	---
-08	8-32	---

Dash No.	Thread Size	Price Each
-3	10-32	---
-4	1/4-28	---

Dash No.	Thread Size	Price Each
-5	5/16-24	---
-6	3/8-24	---

HEX NUT - LOW HEIGHT

Heat treated, cadmium plated steel with dry film lubricant applied. Self-locking. Standard temp. to 450°F.

Thread Size	NAS No.	Part No.	Price Ea.
6-32	679-A06	04-00143	---
8-32	679-A08	04-00144	---
10-32	679-A3	04-00146	---

Thread Size	NAS No.	Part No.	Price Ea.
1/4-28	679-A4	04-00147	---
5/16-24	679-A5	04-00148	---
3/8-24	679-A6	04-00149	---

ZINC TEE NUTS

Here's an easy way to put steel threads in wood, plastic, or particleboard. Just drill a hole to fit the barrel, insert tee nut, and hammer in the locking prongs until the base of the tee nut is flush with the surface. Right-hand thread.

Size	Barrel Length	Part No.	Price
8-32	1/4"	04-02056	---
10-32	5/16"	04-02057	---
5/16-18	1/2	04-01697	---
1/4-20	7/16"	04-02058	---

HA

STOP NUTS – ANCHOR NUTS

AN363 & MS21042 ALL METAL STOP NUTS

AN363
MS21045 • NAS1021A

MS21042

The AN363 and MS21042 all-metal stop nuts are designed for use in high temperature installations (up to 450°F). The MS21042 nuts are shorter than the AN363 nut but develop the same tensile strength. Fabricated from carbon steel and cadmium plated per specification QQ-P-416C.

AN363 CAD Plated Dash #	Price Each	AN363C SS Dash #	Price Each	Thread Size	MS21042 Dash #	Price Each
-632	---	-632	---	6-32	-06	---
-832	---	-832	---	8-32	-08	---
-1032	---	-1032	---	10-32	-3	---
-428	---	-428	---	1/4-28	-4	---
-524	---	-524	---	5/16-24	-5	---
-624	---	-624	---	3/8-24	-6	---
-720	---	---	---	7/16-20	-7	---
-820	---	---	---	1/2-20	-8	---
-918	---	---	---	9/16-18	-9	---

AN364, AN365 ELASTIC STOP NUTS

AN364
MS21083 • NAS1022N

AN365
MS21044 • NAS1021N

These precision-made nuts are reliable and economical fastening devices. The nylon insert gives a friction grip on the threads of the bolt and holds securely. The AN364 (thin) stop nut is for use in structural applications where the bolt is loaded primarily in shear or in any application where the tensile strength of the regular height AN365 is not required. Cad stop nuts are furnished to military specifications. Insert color designates manufacturer only.

Dash No.	Thread Size	Price Ea. AN364	Price Ea. AN365	Dash No.	Thread Size	Price Ea. AN364	Price Ea. AN365
-440A	4-40	---	-----	-524A	5/16-24	---	---
-440	4-40	-----	---	-624A	3/8-24	---	---
-632A	6–32	---	---	-720A	7/16-20	---	---
-832A	8-32	---	---	-820A	1/2-20	---	---
-1024A	10-24	---	---	-918A	9/16-18	---	---
-1032A	10-32	---	---	-1018A	5/8-18	---	---
-428A	1/4-28	---	---	-1216A	3/4-16	---	---

NSWC ELASTIC STOP NUT KIT

Contains: • AN364-428A (20 qty)• AN364-918A (4 qty) • AN364-624A (22 qty) • AN364-720A (4 qty) • AN364-820A (32 qty)...P/N 04-01729 ..... ---

AN364, AN365 STAINLESS STOP NUTS

Thread	Part No.	Price	Thread	Part No.	Price
1/4-28	AN364C-428	---	1/4-28	AN365C-428	---
3/8-24	AN364C-624	---	5/16-24	AN365C-524	---
632	AN364C-632	---	3/8-24	AN365C-624	---
7/16-20	AN364C-720	---	6-32	AN365C-632	---
1/2-20	AN364C-820	---	7/16-20	AN365C-720	---
8-32	AN364C-832	---	1/2-20	AN365C-820	---
9/16-18	AN364C-918	---	8-32	AN365C-832	---
5/8-18	AN364C-1018	---	5/8-18	AN365C-1018	---
10-32	AN364C-1032	---	10-32	AN365C-1032	---

MS21044 / MS21083 STAINLESS STOP NUTS

Part Number	Bolt Size	Price Ea.	Part Number	Bolt Size	Price Ea.
MS21044C04	#4	---	MS21083C7	7/16	---
MS21044C10	5/8	---	MS21083C8	1/2	---
MS21083C9	9/16	---	MS21083C10	5/8	---
MS21083C4	1/4	---			

STAINLESS STOP NUTS

Dash No.	Thread Size	Price Ea. Com364	Price Ea. Com365	Dash No.	Thread Size	Price Ea. Com364	Price Ea. Com365
-440	4-40	---	---	-624	3/8-24	---	---
-632	6–32	---	---	-720	7/16-20	---	---
-832	8-32	---	---	-820	1/2-20	---	---
-1024	10-24	---	---	-918	9/16-18	---	---
-1032	10-32	---	---	-1018	5/8-18	---	---
-428	1/4-28	---	---	-1216	3/4-16	---	---
-524	5/16-24	---	---				

ANCHOR NUTS

Anchor nuts are designed for blind mounted applications where it is impractical to use hex nuts or where it is desirable to have an attached nut for ease of maintenance. Use 3/32" dia. rivets with nut sizes 632, 832, 1032 and 428. Use 1/8" dia. rivets with 524 and 624.

TWO LUG ANCHOR NUTS

AN366F
NA1, MS21078, NAS1023N

K1000
MS21047,NAS680S, NAS1023A

MK1000
MS21069, NAS697N

ELASTIC-INSERT ANCHOR NUT

Part No.	Thread Size	Price Each	Part No.	Thread Size	Price Each
MS21078-06	6-32	---	AN366F-428A	1/4-28	---
AN366F-832A	8-32	-	AN366F-524	5/16-24	-
AN366F-1032A	10-32	---			

ALL METAL ANCHOR NUT

Dash No.	Thread Size	K1000 (Full Size) Price Ea.	MK1000 (Miniature) Price Ea.	(Dimpled Rivet Holes) MS21047 Price Ea.
04	4-40	---	---	
06	6-32	---	---	---
08	8-32	---	---	---
3	10-32	---	---	---
-4	1/4-28	---	---	---
-5	5/16-24	---	---	---
-6	3/8-24	---	---	---

ONE LUG ANCHOR NUTS

NA17
MS21080, NAS1025N

MK2000
MS21071, NAS696A

Elastic-Insert Anchor Nut Part No.	Elastic-Insert Anchor Nut Price Each	Thread Size	All-Metal Anchor Nut Dash No.	All-Metal Anchor Nut Price Each MS21051 (Full Size)	All-Metal Anchor Nut Price Each MS21071 (Miniature)
		6-32	L06	---	---
		8-32	L08	---	---
MS21080-3	---	10-32	L3	---	---
		1/4-28	L4	---	---

ANCHOR NUT, DIMPLED, STANDARD SIZE

Anchor Nut, Dimpled Standard Size

K1100-06 ..... 6-32 Thread ..... P/N 04-01724 ..... ---
K1100-08 ..... 8-32 Thread ..... P/N 04-01725 ..... ---

Anchor Nut, One Leg, Dimpled, Standard size

MS21053-L08 ..... 8-32 Thread ..... P/N 04-01726 ..... ---

NA5
MS21081
NAS1027N

CORNER NUTS

K3000
MS21055
NAS684A
NAS1027A

All-Metal Anchor Nut	Price Ea.	Size	Anchor Nut	Price Ea.
MS21081-3	---	8-32	MS21055L08	---
		10-32	MS21055L3	---
		1/4-28	MS21055L4	---

NA27 (AN256F)

RIGHT ANGLE FLOATING NUTS

Part No.	Thread Size	Price Ea.
22NA27-22-62	6-32	---
22NA27-22-82	8-32	---

TWO LUG MINI ANCHOR NUTS

Part Number	Thread Size	Price Each
MS21075L06	6-32	---
MS21075L08	8-32	---
MS21075L3	10-32	---

F5000
MS21059

ALL-METAL FLOATING ANCHOR NUTS

F2000
MS21061

Two-Lug Nut	Price Ea.	Thread Size	One-Lug Nut	Price Ea.
---	---	4-40	MS21061-04	---
MS21059L06	---	6-32	MS21061L06	---
MS21059L08	---	8-32	MS21061L08	---
MS21059L3	---	10-32	MS21061L3	---
MS21059L4	---	1/4-28	MS21061-L4	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

NAS509 DRILLED HEX NUTS

Material - 4130 Alloy Steel Per AMS-S-6758.
Finish - Cad Type II, Class 2 Per AMS-QQ-P-416.
Heat Treat- 150 KSI Min Per AMS2759.
Hardness - 34-38 HRC

Thread Dash	Thread Size	Part No.	Price
RH - 4	1/4-28 UNJF-3B	NAS509-4	---
RH - 5	5/16-24 UNJF-3B	NAS509-5	---
RH - 6	3/8-24 UNJF-3B	NAS509-6	---
RH - 7	7/16-20 UNJF-3B	NAS509-7	---
RH - 8	1/2-20 UNJF-3B	NAS509-8	---
LH - L4	1/4-28 UNJF-3B	NAS509L4	---
LH - L5	5/16-24 UNJF-3B	NAS509L5	---
LH - L6	3/8-24 UNJF-3B	NAS509L6	---
LH - L7	7/16-20 UNJF-3B	NAS509L7	---
LH - L8	1/2-20 UNJF-3B	NAS509L8	---

NAS671 HEX NUT

Hex Nuts, Small Pattern - NAS671
Material - Carbon Steel
Finish - Cad Type IIPer QQ-P-416

Thread Size	A Dim	T Dim	Part No.	Price
6-32	.241-.250	.087-.098	04-03004	---
8-32	.302-.313	.102-.114	04-03005	---
10-32	.332-.344	.117-.130	04-03006	---

NAS1423 DRILLED HEX NUTS

Material - 4130 Alloy Steel Per AMS-S-6758
Finish - Cad Type II, Class 2 Per AMS-QQ-P-416
Heat Treat- 150 KSI Min Per AMS2759
Hardness - 34-38 HRC

Thread Dash	Thread Size	Part No.	Price
RH-4	1/4-28 UNJF-3B	NAS1423-4	---
RH-6	3/8-24 UNJF-3B	NAS1423-6	---
RH-7	7/16-20 UNJF-3B	NAS1423-7	---
RH-8	1/2-20 UNJF-3B	NAS1423-8	---
LH-4LH	1/4-28 UNJF-3B	NAS1423-4LH	---
LH-5LH	5/16-24 UNJF-3B	NAS1423-5LH	---
LH-6LH	3/8-24 UNJF-3B	NAS1423-6LH	---

NAS43DD3 SPACERS

NAS43DD3-10FC Spacers.

Material - 2024 Aluminum
Finish - Chemical Film

For #10 (190) Screws

Manufacturer Part No.	Length	Part No.	Price
NAS43DD3-10FC	0.156 = 5/32	04-02990	---
NAS43DD3-12FC	0.188 = 3/16	04-02991	---
NAS43DD3-16FC	0.250 = 1/4	04-02992	---
NAS43DD3-24FC	0.375 = 3/8	04-02993	---
NAS43DD3-32FC	0.500 = 1/2	04-02994	---
NAS43DD3-40FC	0.625 = 5/8	04-02995	---
NAS43DD3-48FC	0.750 = 3/4	04-02996	---
NAS43DD3-56FC	0.875 = 7/8	04-02997	---
NAS43DD3-64FC	1.000 = 1	04-02998	---

6-32 BRASS INSTRUMENT STOP-NUT

6-32 Brass Instrument Stop-Nut.
P/N MS21044B06..... ---

MS35649 & MS35650 HEX MACHINE NUTS

Material - Stainless Steel, Brass - Tin Plated, CAD Plated Carbon Steel Finish

Manufacturer Part No.	Thread Size	Material	Part No.	Price
MS35649-224	2-56	Stainless Steel	04-01357	---
MS35649-286T	8-32	Brass - Tin Plated	04-01393	---
MS35650-305T	10-32	Brass - Tin Plated	04-01394	---
MS35649-2252	1/4-20	CAD Plated Carbon Steel	04-01396	---
MS35649-2312	5/16-18	CAD Plated Carbon Steel	04-01397	---

AN121501 - AN121504 HEX NUTS

Hex Nuts - AN121501 - AN121504
Material - Alloy Steel Per AMS6322
Finish - Cad Per AMS2400

Manufacturer Part No.	Thread Size	A Dim	T Dim	Part No.	Price
AN121501	10-32	.367-.376	0.156	04-02999	---
AN121502	1/4-28	.430-.439	.219	04-03001	---
AN121503	5/26-24	.492-.502	.266	04-03002	---
AN121504	3/8-24	.533-.564	.328	04-03003	---

SELF LOCKING SCREW THREAD INSERTS

Screw Thread Inserts - Self Locking
Material - Stainless Steel Per NASM8846
Finish - Plain, Dyed Red Or Dry Film Lube (L) Per AS5272

Material	Thread Size	Nominal Diameter	Nominal Length	Part No.	Price
Dyed Red	4-40	0.112	**0.112**	MS21209C0410	---
Dyed Red	4-40	0.112	**0.168**	MS21209C0415	---
Dyed Red	4-40	0.112	**0.224**	MS21209C0420	---
Dyed Red	6-32	0.138	**0.138**	MS21209C0610	---
Dyed Red	6-32	0.138	**0.207**	MS21209C0615	---
Dyed Red	6-32	0.138	**0.276**	MS21209C0620	---
Dyed Red	8-32	0.164	**0.164**	MS21209C0810	---
Dyed Red	8-32	0.164	**0.246**	MS21209C0815	---
Dyed Red	8-32	0.164	**0.328**	MS21209C0820	---
Dyed Red	10-32	0.190	**0.190**	MS21209F1-10	---
Dyed Red	10-32	0.190	**0.285**	MS21209F1-15	---
Dyed Red	10-32	0.190	**0.380**	MS21209F1-20	---
Dyed Red	1/4-28	0.250	**0.250**	MS21209F4-10	---
Dyed Red	1/4-28	0.250	**0.375**	MS21209F4-15	---
Dyed Red	1/4-28	0.250	**0.500**	MS21209F4-20	---
Dry Film Lube	4-40	0.112	**0.112**	MS21209C0410L	---
Dry Film Lube	4-40	0.112	**0.168**	MS21209C0415L	---
Dry Film Lube	6-32	0.138	**0.138**	MS21209C0610L	---
Dry Film Lube	6-32	0.138	**0.207**	MS21209C0615L	---
Dry Film Lube	8-32	0.164	**0.164**	MS21209C0810L	---
Dry Film Lube	8-32	0.164	**0.246**	MS21209C0815L	---
Dry Film Lube	10-32	0.190	**0.190**	MS21209F1-10L	---
Dry Film Lube	10-32	0.190	**0.285**	MS21209F1-15L	---
Dry Film Lube	10-32	0.190	**0.380**	MS21209F1-20L	---

INSTRUMENT AND SHEET NUTS

HA

NUTS FOR SHEET METAL SCREWS

"B"-type Sheet Metal Screw

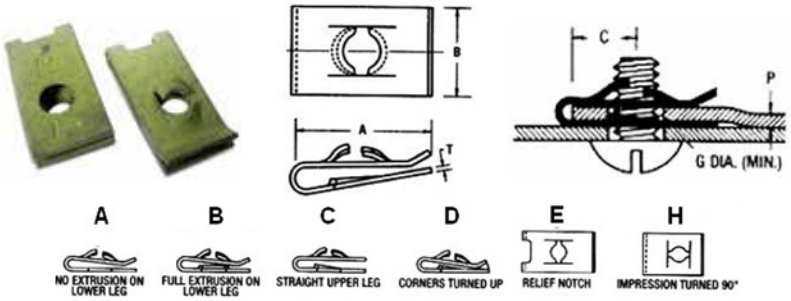
These speed nuts are self-locking steel fasteners. Locking action is derived from the force exerted by the two arched prongs against the root of the screw thread and by the spring tension of the prongs and base. The combined forces of the thread lock and spring tension provide a vibration proof fastening. Speed nuts retain their spring tension and may be used repeatedly without losing their self-locking effectiveness. Suitable for numerous non-structural applications.

Finish: Phosphate-coated with three coats of olive drab paint.

Important: Speed nuts for aircraft are designed to fit standard AN530-AN531 type B sheet metal screws only. Do not use pointed type A sheet metal screws with aircraft Speed nuts. There is a difference in root diameter and thread pitch. Screw lengths: B type sheet metal screws have a blunt taper at the end. To be certain the fastener prongs grip on the full root diameter, the screw should protrude two to three threads beyond the prongs. See the illustration.

"U" TYPE (NAS 395) CLIP NUTS

Snaps over edge of panels or into center hole locations. Holds itself in place for blind assembly. "Floats" free for easy hole alignment.



Part Number	Type B Screw Size	Design Variation	P-panel Thickness Range	A Length	B Width	C-max. Center of Hole to Edge	G-Panel Hole Dia.	T Material Thickness	Price
A1784-6Z-1D	#6	E	.025-.051	0.61	0.44	0.281	0.250	0.025	---
A1785-6Z-1D	#6	E	.025-.064	0.84	0.44	0.500	0.281	0.025	---
A1789-8Z-1D	#8	E	.025-.051	0.61	0.44	0.281	0.250	0.028	---
A1787-8Z-1D	#8	E	.025-.064	0.84	0.44	0.500	0.281	0.028	---
A1788-8Z-1D	#8	A E	.025-.064	0.84	0.44	0.500	0.170	0.028	---
A1348-8Z-1D	#8	A E	.025-.064	0.73	0.50	0.343	0.170	0.028	---
A1786-8Z-1D	#8	C E H	.040-.051	0.53	0.50	0.218	0.250	0.028	---
A178710Z-1D	#10	E	.025-.064	0.84	0.44	0.500	0.281	0.031	---
A1758-10Z-1D	#10	E	.081-.094	0.62	0.44	0.281	0.281	0.031	---

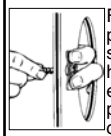
FLAT TYPE (NAS 446)

Used to replace threaded nuts, lock washers, and spanner washers; weigh less than other types of self-locking aircraft fasteners. Can be applied faster, easier, and are vibration resistant. Provide maximum holding power at minimum cost per fastener. Turned-up ends prevent scoring of surfaces. Use with type B tapping screws.

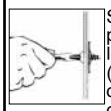
Part No.	Screw Size	Price ea.
A1776-4Z-1D	#4	---
A1778-8Z-1D	#8	---
A1779-10Z-1D	#10	---

HOW TO APPLY SPEED NUT FASTENERS

FLAT TYPE

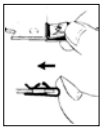


Fastener is positioned over screw clearance hole with screw-engaging prongs pointing up or outward. Screw is started into nut by hand from the underside.



Screw can be power-driven into locked position (when base arch of fastener is flat) or a hand screw driver can be used. No wrench is required, finger pressure will prevent it from turning.

"U" TYPE



Push into position with thumb until extrusion on lower leg snaps into screw hole. The fastener "floats" in screw-receiving position to correct for normal misalignment in panel mounting holes.

Place second panel in position & drive screw. Access to opposite side is unnecessary. Flush mounting can be made by embossing either panel.

ANCHOR NUTS (NAS 444)

Riveted or welded in position. Attach access plates, doors or any part that must be fastened securely, yet easily removed with fasteners retained in a blind location. Install with AN426AD-3 rivets.

Part No.	Screw Size	Price/Ea.
A6195-6Z-1D	#6	---
A6195-8Z-1D	#8	---

LHA 4972 FLOATING CLIPNUT

CADMIUM-PLATED STEEL

Part No.	Thread	Price Each
4972-5-62	6-32	---
4972-6-82	8-32	---
04-01489	10-32	---

MONADNOCK CLIP NUTS

High strength Forged hex nuts suitable for structural and non-structural applications in metal, plastic, and composite materials.

Size	Distance	Edge Thickness	Part Number	Price Ea.
6-32	.180-.120	.030-.051	04-00151	---
8-32	.310-.500	.020-.090	04-00152	---
10-32	.350-.500	.020-.090	04-00153	---

INSTRUMENT MOUNTING NUTS

Cage type. Permit mounting of aircraft instruments from the front of the panel. No charge in panel or instrument design required. Non-magnetic (speed nut is brass; cage is phosphor bronze). Conform to MIL-N-3336. Cage is easily compressed with finger-pressure to allow insertion of legs into clearance holes. When fully inserted and pressure is released, legs spring apart; retain SPEED NUT in screw-receiving position. Turned-down corners hold firm against force of inserting screw and screw-tightening torque. All instrument mounting nuts listed below take a 6-32 machine screw.

Tinnerman Part No.	Our Part No.	NAS Part No.	Instrument Thickness	Price Ea.
A8938-632-493	MS33737-9C	487-13	.062	---
A8939-632-493	MS33737-10C	487-14	.091	---
A6939-632-493	MS33737-11C	487-15	.125	---
A8940-632-493	MS33737-12C	487-16	.187	---
A8941-632-493	MS33737-13C	487-17	.250	---
A8942-632-493	MS33737-14C	487-18	.313	---
A8943-632-493	MS33737-15C	487-20	.375	---
A8944-632-493	MS33737-16C	487-21	over .375	---

FLOATING CLIP NUT 4972-1032

Reach: .500"
Thread: 10-32
Edge Distance: .375
Material Thickness: .020" - .090
P/N 04-01489 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MS27039 & MS27039C MACHINE SCREWS

Pan head low alloy steel machine screws have 125,000 to 145,000 psi tensile strength with cadmium plate finish to QQ-P-416, Type 2, Class 3. MS27039C screws are stainless steel Manufactured to MIL-S-6050 or MIL-8695. Equivalent to NAS 220.

Part Number	Thread	Length (In.)	Grip Length (in)	MS27039 Price	MS27039C Price
MS27039-0804	8-32	9/32	---	---	---
MS27039-0805	8-32	11/32	---	---	---
MS27039-0806	8-32	13/32	---	---	----
MS27039-0807	8-32	15/32	---	---	----
MS27039-0808	8-32	17/32	.094	---	----
MS27039-0809	8-32	19/32	.156	---	----
MS27039-0810	8-32	21/32	.219	---	----
MS27039-0811	8-32	23/32	.281	---	---
MS27039-0812	8-32	25/32	.344	---	----
MS27039-0813	8-32	27/32	.406	---	---
MS27039-0814	8-32	29/32	.469	---	---
MS27039-0815	8-32	31/32	.531	---	---
MS27039-0816	8-32	1-1/32	.594	---	----
MS27039-0817	8-32	1-3/32	.656	---	---
MS27039-0818	8-32	1-5/32	.719	---	----
MS27039-0819	8-32	1-7/32	.781	---	----
MS27039-0820	8-32	1-9/32	.844	---	----
MS27039-0821	8-32	1-11/32	.906	---	----
MS27039-0822	8-32	1-13/32	.969	---	----
MS27039-0823	8-32	1-15/32	1.031	---	----
MS27039-0824	8-32	1-17/32	1.094	---	----
MS27039-1-04	10-32	9/32	---	---	---
MS27039-1-05	10-32	11/32	---	---	---
MS27039-1-06	10-32	13/32	---	---	---
MS27039-1-07	10-32	15/32	---	---	----
MS27039-1-08	10-32	17/32	.062	---	----
MS27039-1-09	10-32	19/32	.125	---	---
MS27039-1-10	10-32	21/32	.188	---	---
MS27039-1-11	10-32	23/32	.250	---	---
MS27039-1-12	10-32	25/32	.312	---	----
MS27039-1-13	10-32	27/32	.375	---	---
MS27039-1-14	10-32	29/32	.438	---	----
MS27039-1-15	10-32	31/32	.500	---	---
MS27039-1-16	10-32	1-1/32	.563	---	----
MS27039-1-17	10-32	1-3/32	.625	---	---
MS27039-1-18	10-32	1-5/32	.688	---	---
MS27039-1-19	10-32	1-7/32	.750	---	---
MS27039-1-20	10-32	1-9/32	.813	---	---
MS27039-1-21	10-32	1-11/32	.875	---	---
MS27039-1-22	10-32	1-13/32	.938	---	---
MS27039-1-23	10-32	1-15/32	1.000	---	---
MS27039-1-24	10-32	1-17/32	1.062	---	---
MS27039-1-25	10-32	1-19/32	1.125	---	----
MS27039-1-26	10-32	1-21/32	1.188	---	----
MS27039-1-27	10-32	1-23/32	1.250	---	----
MS27039-1-28	10-32	1-25/32	1.312	---	----
MS27039-1-29	10-32	1-27/32	1.375	---	----
MS27039-1-30	10-32	1-29/32	1.438	---	----
MS27039-1-31	10-32	1-31/32	1.500	---	----
MS27039-1-32	10-32	2-1/32	1.563	---	----
MS27039-4-06	1/4-28	13/32	---	---	---
MS27039-4-07	1/4-28	15/32	---	---	---
MS27039-4-08	1/4-28	17/32	---	---	---
MS27039-4-09	1/4-28	19/32	.062	---	---
MS27039-4-10	1/4-28	21/32	.125	---	---
MS27039-4-11	1/4-28	23/32	.188	---	---
MS27039-4-12	1/4-28	25/32	.250	---	---
MS27039-4-13	1/4-28	27/32	.312	---	---
MS27039-4-14	1/4-28	29/32	.375	---	---
MS27039-4-15	1/4-28	31/32	.438	---	---
MS27039-4-16	1/4-28	1-1/32	.500	---	---
MS27039-4-17	1/4-28	1-3/32	.563	---	----
MS27039-4-18	1/4-28	1-5/32	.625	---	----
MS27039-4-19	1/4-28	1-7/32	.688	---	----
MS27039-4-20	1/4-28	1-9/32	.750	---	----
MS27039-4-21	1/4-28	1-11/32	.813	---	----
MS27039-4-22	1/4-28	1-13/32	.875	---	----
MS27039-4-23	1/4-28	1-15/32	.938	---	----
MS27039-4-24	1/4-28	1-17/32	1.000	---	----

MS35190 MACHINE SCREWS (CROSS RECESSED)

82° flat head machine screws have 55,000psi minimum tensile strength and feature cadmium plate finish per QQ P-416, Type 2, Class 3. Manufactured from carbon steel to Federal Standard #66.

Part Number	Old AN505R	Dia. - Thread Size	Length (In.)	Price
MS35190-221	-4R4	4-40	1/4	---
MS35190-222	-4R5	4-40	5/16	---
MS35190-225	-4R8	4-40	1/2	---
MS35190-226	-4R10	4-40	5/8	---
MS35190-234	-6R4	6-32	1/4	---
MS35190-236	-6R6	6-32	3/8	---
MS35190-238	-6R8	6-32	1/2	---
MS35190-239	-6R10	6-32	5/8	---
MS35190-240	-6R12	6-32	3/4	---
MS35190-250	-8R5	8-32	5/16	---
MS35190-253	-8R8	8-32	1/2	---
MS35190-254	-8R10	8-32	5/8	---

MS35206 MACHINE SCREWS (CROSS RECESSED)

These pan head machine screws feature 60,000 psi minimum tensile strength and are cadmium plated to specification QQ-P-416, Type 2, Class 3. Manufactured from carbon steel to Federal Standard #66, these screws can be used as replacements for AN526 machine screws. Phillips head.

Part Number	Old AN515R	Dia.-Thread Size	Length (In.)	Price each
MS35206-203	-2R2	2-56	1/4	---
MS35206-204	-2R5	2-56	5/16	---
MS35206-205	-2R6	2-56	3/8	---
MS35206-206	-2R7	2-56	7/16	---
MS35206-207	-2R8	2-56	1/2	---
MS35206-208	-2R10	2-56	5/8	---
MS35206-209	-2R12	2-56	3/4	---
MS35206-212	-4R3	4-40	3/16	---
MS35206-214	-4R5	4-40	5/16	---
MS35206-215	-4R6	4-40	3/8	---
MS35206-216	-4R7	4-40	7/16	---
MS35206-217	-4R8	4-40	1/2	---
MS35206-218	-4R10	4-40	5/8	---
MS35206-219	-4R12	4-40	3/4	---
MS35206-220	-4R14	4-40	7/8	---
MS35206-221	-4R16	4-40	1	---
MS35206-222	-4R20	4-40	1-1/4	---
MS35206-223	-4R24	4-40	1-1/2	---
MS35206-226	-6R4	6-32	1/4	---
MS35206-227	-6R5	6-32	5/16	---
MS35206-228	-6R6	6-32	3/8	---
MS35206-229	-6R7	6-32	7/16	---
MS35206-230	-6R8	6-32	1/2	---
MS35206-231	-6R10	6-32	5/8	---
MS35206-232	-6R12	6-32	3/4	---
MS35206-233	-6R14	6-32	7/8	---
MS35206-234	-6R16	6-32	1	---
MS35206-235	-6R20	6-32	1-1/4	---
MS35206-236	-6R24	6-32	1-1/2	---
MS35206-238	-6R32	6-32	2	---
MS35206-241	-8R4	8-32	1/4	---
MS35206-242	-8R5	8-32	5/16	---
MS35206-243	-8R6	8-32	3/8	---
MS35206-244	-8R7	8-32	7/16	---
MS35206-245	-8R8	8-32	1/2	---
MS35206-246	-8R10	8-32	5/8	---
MS35206-247	-8R12	8-32	3/4	---
MS35206-248	-8R14	8-32	7/8	---
MS35206-249	-8R16	8-32	1	---
MS35206-250	-8R20	8-32	1-1/4	---
MS35206-251	-8R24	8-32	1-1/2	---
MS35206-252	-8R28	8-32	1-3/4	---
MS35206-253	-8R32	8-32	2	---
MS35206-261	-10R6	10-24	3/8	---
MS35206-262	-10R7	10-24	7/16	---
MS35206-263	-10R8	10-24	1/2	---
MS35206-264	-10R10	10-24	5/8	---
MS35206-265	-10R12	10-24	3/4	---
MS35206-267	-10R16	10-24	1	---

MS35207 MACHINE SCREWS (CROSS RECESSED)

These pan head machine screws have 55,000 psi minimum tensile strength and are cadmium plated to Specification QQ-P-416, Type 2, Class 3. Manufactured from carbon steel per Federal Standard #66.

Part Number	Old AN520R	Diameter Thread Size	Length (In.)	Price each
MS35207-260	-10R5	10-32	5/16	---
MS35207-261	-10R6	10-32	3/8	---
MS35207-262	-10R7	10-32	7/16	---
MS35207-263	-10R8	10-32	1/2	---
MS35207-264	-10R10	10-32	5/8	---
MS35207-265	-10R12	10-32	3/4	---
MS35207-266	-10R14	10-32	7/8	---
MS35207-267	-10R16	10-32	1	---
MS35207-268	-10R20	10-32	1-1/4	---
MS35207-269	-10R24	10-32	1-1/2	---
MS35207-270	-10R28	10-32	1-3/4	---
MS35207-271	-10R32	10-32	2	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MS24693 & MS24693C MACHINE SCREWS

FORMERLY AN 507)

These non-structural screws have a 100° countersunk flat head. Cadmium plated, Type 2, Class 3. Tensile strength 55,000 PSI. For both CAD plated and Stainless MS24693C are stainless steel.

Thread	Length	MS24693 Cad Plated P/N	Price Each	MS24693C Stainless P/N	Price Each
4-40	3/8	MS24693S4	---	MS24693C4	---
	7/16	MS24693S5	---	---	---
	1/2	MS24693S6	---	MS24693C6	---
	5/8	MS24693S7	---	MS24693C7	---
	1	MS24693S10	---	MS24693C10	---
6-32	1/4	MS24693S24	---	MS24693C24	---
	3/8	MS24693S26	---	MS24693C26	---
	7/16	MS24693S27	---	MS24693C27	---
	1/2	MS24693S28	---	MS24693C28	---
	5/8	MS24693S29	---	MS24693C29	---
	3/4	MS24693S30	---	MS24693C30	---
	7/8	MS24693S31	---	---	---
	1	MS24693S32	---	MS24693C32	---
	1-1/2	MS24693S36	---	---	---
	2	MS24693S40	---	---	---
8-32	1/4	MS24693S46	---	MS24693C46	---
	3/8	MS24693S48	---	MS24693C48	---
	7/16	MS24693S49	---	MS24693C49	---
	1/2	MS24693S50	---	MS24693C50	---
	5/8	MS24693S51	---	MS24693C51	---
	3/4	MS24693S52	---	MS24693C52	---
	7/8	MS24693S53	---	---	---
	1	MS24693S54	---	MS24693C54	---
	1-1/4	MS24693S56	---	MS24693C56	---
	1-1/2	MS24693S58	---	---	---
	2	MS24693S62	---	---	---
10-32	1/4	MS24693S268	---	MS24693C268	---
	3/8	MS24693S270	---	MS24693C270	---
	7/16	MS24693S271	---	MS24693C271	---
	1/2	MS24693S272	---	MS24693C272	---
	5/8	MS24693S273	---	MS24693C273	---
	3/4	MS24693S274	---	MS24693C274	---
	1	MS24693S276	---	MS24693C276	---
	1-1/4	MS24693S278	---	MS24693C278	---
	1-1/2	MS24693S280	---	---	---
	2	MS24693S284	---	---	---
	2-1/2	MS24693-S286	---	---	---
1/4-28	7/16	---	---	MS24693C293	---
	1/2	MS24693S294	---	MS24693C294	---
	5/8	MS24693S295	---	MS24693C295	---
	3/4	MS24693S296	---	---	---
	1	---	---	MS24693C298	---

AN526 MACHINE SCREWS

Truss-head non-structural machine screws made of carbon steel, cadmium plated. Minimum tensile strength 55,000 PSI. Available in slot head or Phillips recessed head.

Thread	Length	Phillips Part No.	Price Each	Slotted Part No.	Price Each
4-40	1/4	AN526-440R4	---	-----	---
	3/8	AN526-440R6	---	-----	---
	1/2	AN526-440R8	---	-----	---
	1	AN526-440R16	-----	-----	---
6-32	1/4	AN526-632R4	---	-----	---
	5/16	AN526-632R5	---	-----	---
	3/8	AN526-632R6	---	AN526-632-6	---
	7/16	AN526-632R7	---	-----	---
	1/2	AN526-632R8	---	AN526-632-8	---
	9/16	AN526-632R9	---	-----	---
	5/8	AN526-632R10	---	AN526-632-10	---
	3/4	AN526-632R12	---	AN526-632-12	---
	7/8	AN526-632R14	---	-----	---
	1	AN526-632R16	---	-----	---
	1-1/2	AN526-632-R24	---	-----	---
	2	AN526-632R32	---	-----	---
8-32	1/4	AN526-832R4	---	-----	---
	5/16	AN526-832R5	---	-----	---
	3/8	AN526-832R6	---	-----	---
	7/16	AN526-832R7	---	-----	---
	1/2	AN526-832R8	---	AN526-832-8	---
	9/16	AN526-832R9	---	-----	---
	5/8	AN526-832R10	---	---	---
	3/4	AN526-832R12	---	AN526-832-12	---
	7/8	AN526-832R14	---	-----	---
	1	AN526-832R16	---	AN526-832-16	---
	1-1/4	AN526-832-R20	---	-----	---
	1-1/2	AN526-832-R24	---	-----	---
10/32	1/4	AN526-1032R4	---	-----	---
	5/16	AN526-1032R5	---	-----	---
	3/8	AN526-1032R6	---	-----	---
	7/16	AN526-1032R7	---	-----	---
	1/2	AN526-1032R8	---	-----	---
	9/16	AN526-1032R9	---	-----	---
	5/8	AN526-1032R10	---	AN526-1032-10	---
	3/4	AN526-1032R12	---	AN526-1032-12	---
	7/8	AN526-1032R14	---	AN526-1032-14	---
	1	AN526-1032R16	---	-----	---
	1-1/8	AN526-1032R18	---	-----	---
	1-1/4	AN526-1032R20	---	-----	---
	1-1/2	AN526-1032R24	---	-----	---
	1-3/4	AN526-1032R28	---	-----	---
	2	AN526-1032R32	---	-----	---

AN525 WASHER HEAD SCREWS

High-strength machine screws fabricated from alloy steel per specification AMS6300. Tensile strength 125,000 PSI. Cadmium plated per QQ-P-416, Type II, Class 3. Cross-recessed head.

Dash No.	Length	Grip in.	Thread Size	Price
AN525-832R4	1/4	1/32	8-32	---
AN525-832R5	5/16	--	8-32	---
AN525-832R6	3/8	1/32	8-32	---
AN525-832R7	7/16	1/16	8-32	---
AN525-832R8	1/2	1/8	8-32	---
AN525-832R9	9/16	5/32	8-32	---
AN525-832R10	5/8	7/32	8-32	---
AN525-832R11	11/16	9/32	8-32	---
AN525-832R12	3/4	11/32	8-32	---
AN525-832R14	7/8	15/32	8-32	---
AN525-832R16	1	19/32	8-32	---
AN525-832R18	1-1/8	23/32	8-32	---
AN525-832R20	1-1/4	27/32	8-32	---
AN525-832R22	1-3/8	31/32	8-32	---
AN525-832R24	1-1/2	1-3/32	8-32	---
AN525-8R9	9/16	5/32	8/36	---
AN525-10R4	1/4	--	10-32	---
AN525-10R5	5/16	--	10-32	---
AN525-10R6	3/8	1/32	10-32	---
AN525-10R7	7/16	1/16	10-32	---
AN525-10R8	1/2	1/8	10-32	---
AN525-10R9	9/16	5/32	10-32	---
AN525-10-9 (Slotted)	9/16	5/32	10-32	---
AN525-10R10	5/8	7/32	10-32	---
AN525-10R11	11/16	9/32	10-32	---
AN525-10R12	3/4	11/32	10-32	---
AN525-10R14	7/8	15/32	10-32	---
AN525-10R16	1	19/32	10-32	---
AN525-10R18	1-1/8	23/32	10-32	---
AN525-10R20	1-1/4	27/32	10-32	---
AN525-10R22	1-3/8	31/32	10-32	---
AN525-10R24	1-1/2	1-3/32	10-32	---
AN525-416R6	3/8	1/32	1/4-28	---
AN525-416R7	7/16	1/16	1/4-28	---
AN525-416R8	1/2	1/8	1/4-28	---
AN525-416R9	9/16	5/32	1/4-28	---
AN525-416R10	5/8	7/32	1/4-28	---
AN525-416R12	3/4	11/32	1/4-28	---
AN525-416R14	7/8	15/32	1/4-28	---
AN525-416R16	1	19/32	1/4-28	---
AN525-416R18	1-1/8	23/32	1/4-28	---
AN525-416R20	1-1/4	27/32	1/4-28	---

AN526C STAINLESS STEEL MACHINE SCREWS

Stainless steel Phillips and slotted, Use slotted screws for antiques.

Thread	Length	Phillips Part No.	Price Ea.
4-40	1/2	AN526C-440R8	---
6-32	1/4	AN526C-632R4	---
	3/8	AN526C-632R6	---
	1/2	AN526C-632R8	---
	5/8	AN526C-632R10	---
	3/4	AN526C-632R12	---
	1	AN526C-632R16	---
8-32	1/4	AN526C-832R4	---
	3/8	AN526C-832R6	---
	1/2	AN526C-832R8	---
	5/8	AN526C-832R10	---
	3/4	AN526C-832R12	---
	1	AN526C-832R16	---
10-32	1/4	AN526C-1032R4	---
	3/8	AN526C-1032R6	---
	1/2	AN526C-1032R8	---
	5/8	AN526C-1032R10	---
	3/4	AN526C-1032R12	---
	1	AN526C-1032R16	---
	1-1/4	AN526C-1032R20	-----
	1-1/2	AN526C-1032R24	---
1/4-20	1/2	AN526C-420R8	---
1/4-28	1/2	AN526C-428R8	---
	3/4	AN526C-428R12	---
	1-1/8	-----	---

Thread	Length	Slotted Part No.	Price Ea.
4-40	1/2	-----	---
6-32	1/4	AN526C-632-4	---
	3/8	-----	---
	1/2	AN526C-632-8	---
	5/8	AN526C-632-10	---
	3/4	-----	---
	1	AN526C-632-16	---
8-32	1/4	-----	---
	3/8	-----	---
	1/2	AN526C-832-8	---
	5/8	AN526C-832-10	---
	3/4	AN526C-832-12	---
	1	AN526C-832-16	---
10-32	1/4	-----	---
	3/8	AN526C-1032-6	---
	1/2	AN526C-1032-8	---
	5/8	AN526C-1032-10	---
	3/4	AN526C-1032-12	---
	1	-----	---
	1-1/4	-----	---
	1-1/2	-----	---
1/4-20	1/2	-----	---
1/4-28	1/2	-----	---
	3/4	-----	---
	1-1/8	AN526C-428-18	---

Note: Some sizes of AN526C screws are furnished as commercial equipment as AN screws are no longer available.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MS24694 MACHINE SCREWS (FORMERLY AN509)

These structural screws have a 100° countersunk head. Cadmium plated per QQ-P-416A, Type II, Class 3. Minimum tensile strength for steel is 125,000 PSI. Minimum tensile strength for stainless steel is 85,000 PSI.

MS24694 Dash No.	AN509 Dash No.	Length In.	Grip In.	Thread Size	Price Each
-S1	-8R4	9/32	3/32	8-32	---
-S2	-8R5	11/32		8-32	---
-S3	-8R6	13/32		8-32	---
-S4	-8R7	15/32		8-32	---
-S5	-8R8	17/32		8-32	---
-S7	-8R10	21/32	7/32	8-32	---
-S8	-8R11	23/32	9/32	8-23	---
-S9	-8R12	25/32	11/32	8-32	---
-S10	-8R13	27/32	13/32	8-32	---
-S11	-8R14	29/32	15/32	8-32	---
-S12	-8R15	31/32	17/32	8-32	---
-S13	-8R16	1-1/32	19/32	8-32	---
-S14	-8R17	1-1/32	21/32	8-32	---
-S15	-8R18	1-5/32	23/32	8-32	---
-S16	-8R19	1-7/32	25/32	8-32	---
-S17	-8R20	1-9/32	27/32	8-32	---
-S18	-8R21	1-11/32	29/32	8-32	---
-S19	-8R22	1-13/32	31/32	8-32	---
-S20	-8R23	1-15/32	1-1/32	8-32	---
-S21	-8R24	1-17/32	1-3/32	8-32	---
-S28	-8R31	1-31/32	1-17/32	8-32	---
-S29	-8R32	2-1/32	1-19/32	8-32	---
-S31	-8R34	2-5/32	1-23/32	8-32	---
-S46	-10R4	9/32	7/64	10-32	---
-S47	-10R5	11/32		10-32	---
-S48	-10R6	13/32		10-32	---
-S49	-10R7	15/32		10-32	---
-S50	-10R8	17/32		10-32	---
-S51	-10R9	19/32		10-32	---
-S52	-10R10	21/32	3/16	10-32	---
-S53	-10R11	23/32	1/4	10-32	---
-S54	-10R12	25/32	5/16	10-32	---
-S55	-10R13	27/32	3/8	10-32	---
-S56	-10R14	29/32	7/16	10-32	---
-S57	-10R15	31/32	1/2	10-32	---
-S58	-10R16	1-1/32	9/16	10-32	---
-S59	-10R17	1-3/32	5/8	10-32	---
-S60	-10R18	1-5/32	11/16	10-32	---
-S61	-10R19	1-7/32	3/4	10-32	---
-S62	-10R20	1-9/32	13/16	10-32	---
-S63	-10R21	1-11/32	7/8	10-32	---
-S64	-10R22	1-13/32	15/16	10-32	---

MS24694 Dash No.	AN509 Dash No.	Length In.	Grip In.	Thread Size	Price Each
-S65	-10R23	1-15/32	1	10-32	---
-S66	-10R24	1-17/32	1-1/16	10-32	---
-S67	-10R25	1-19/32	1-1/8	10-32	---
-S68	-10R26	1-21/32	1-3/16	10-32	---
-S69	-10R27	1-23/32	1-1/4	10-32	---
-S70	-10R28	1-25/32	1-5/16	10-32	---
-S71	-10R29	1-27/32	1-3/8	10-32	---
-S72	-10R30	1-29/32	1-7/16	10-32	---
-S74	-10R32	2-1/32	1-9/16	10-32	---
-S75	-10R33	2-3/32	1-5/8	10-32	---
-S76	-10R34	2-5/32	1-11/16	10-32	---
-S77	-10R35	2-7/32	1-3/4	10-32	---
-S79	-10R37	2-11/32	1-7/8	10-32	---
-S82	-10R40	2-17/32	2-1/16	10-32	---
-S84	-10R42	2-21/32	2-3/16	10-32	---
-S88	-10R46	2-29/32	2-7/16	10-32	---
-S90	-10R48	3-1/32	2-9/16	10-32	---
-S93	-416R6	13/32	9/64	1/4-28	---
-S94	-416R7	15/32		1/4-28	---
-S95	-416R8	17/32		1/4-28	---
-S96	-416R9	19/32		1/4-28	---
-S97	-416R10	21/32		1/4-28	---
-S98	-416R11	23/32	3-16	1/4-28	---
-S99	-416R12	25/32	1/4	1/4-28	---
-S100	-416R13	27/32	5/16	1/4-28	---
-S101	-416R14	29/32	3/8	1/4-28	---
-S102	-416R15	31/32	7/16	1/4-28	---
-S103	-416R16	1-1/32	1/2	1/4-28	---
-S104	-416R17	1-3/32	9/16	1/4-28	---
-S105	-416R18	1-5/32	5/8	1/4-28	---
-S106	-416R19	1-7/32	11/16	1/4-28	---
-S107	-416R20	1-9/32	3/4	1/4-28	---
-S108	-416R21	1-11/32	13/16	1/4-28	---
-S109	-416R22	1-13/32	7/8	1/4-28	---
-S110	-416R23	1-15/32	15/16	1/4-28	---
-S111	-416R24	1-17/32	1	1/4-28	---
-S113	-416R26	1-21/32	1-1/8	1/4-28	---
-S115	-416R28	1-25/32	1-1/4	1/4-28	---
-S119	-416R32	2-1/32	1-1/2	1/4-28	---
-S121	-416R34	2-5/32	1-5/8	1/4-28	---
-S123	-416R36	2-9/32	1-3/4	1/4-28	---
-S148	-516R16	1-1/32	15/32	5/16-24	---
-S178	-516R46	2-29/32	2-11/32	5/16-24	---

MS24694C STAINLESS STEEL MACHINE SCREWS

Same style screws as MS24694, except stainless steel. Phillips head. (Formerly AN509C) Minimum tensile strength for stainless steel is 85,000 PSI.

MS Part No.	AN509C No.	Thread Size	Length Inches	Price Each
MS24694C1	-8R4	8-32	9/32	---
MS24694C2	-8R5	8-32	11/32	---
MS24694C3	-8R6	8-32	13/32	---
MS24694C4	-8R7	8-32	15/32	---
MS24694C5	-8R8	8-32	17/32	---
MS24694C6	-8R9	8-32	19/32	---
MS24694C7	-8R10	8-32	21/32	---
MS24694C8	-8R11	8-32	23/32	---
MS24694C9	-8R12	8-32	25/32	---
MS24694C10	-8R13	8-32	27/32	---
MS24694C11	-8R14	8-32	29/32	---
MS24694C13	-8R16	8-32	1-1/32	---
MS24694C14	-8R17	8-32	1-3/32	---
MS24694C15	-8R18	8-32	1-5/32	---
MS24694C46	-10R4	10-32	9/32	---
MS24694C47	-10R5	10-32	11/32	---

MS Part No.	AN509C No.	Thread Size	Length Inches	Price Each
MS24694C48	-10R6	10-32	13/32	---
MS24694C49	-10R7	10-32	15/32	---
MS24694C50	-10R8	10-32	17/32	---
MS24694C51	-10R9	10-32	19/32	---
MS24694C52	-10R10	10-32	21/32	---
MS24694C53	-10R11	10-32	23/32	---
MS24694C54	-10R12	10-32	25/32	---
MS24694C55	-10R13	10-32	27/32	---
MS24694C56	-10R14	10-32	29/32	---
MS24694C57	-10R15	10-32	31/32	---
MS24694C58	-10R16	10-32	1-1/32	---
MS24694C59	-10R17	10-32	1-3/32	---
MS24694C60	-10R18	10-32	1-5/32	---
MS24694C61	-10R19	10-32	1-7/32	---
MS24694C62	-10R20	10-32	1-9/32	---
MS24694C92		1/4-28	3/8	---

NAS387 SERIES MACHINE SCREWS

Type: NAS387 Material: Carbon Steel Type 1016 - 1024 Finish: Nickel Plate

Thread	Length	Part No.	Price
6-32	3/8	NAS387-632-6P	---
	7/16	NAS387-632-7P	----
	1/2	NAS387-632-8P	---
	5/8	NAS387-632-10P	---
	3/4	NAS387-632-12P	---
8-32	1/2	NAS387-832-8P	---
	5/8	NAS387-832-10P	---
	3/4	NAS387-832-12P	---
	7/8	NAS387-832-14P	---
10-32	1/2	NAS387-1032-8P	---
	5/8	NAS387-1032-10P	---
	3/4	NAS387-1032-12P	---
	7/8	NAS387-1032-14P	---
	1	NAS387-1032-16P	---
	1-1/8	NAS387-1032-18P	---
	1-1/4	NAS387-1032-20P	---
	1/12	NAS387-1032-24P	---

AN502, AN503 FILLISTER HEAD SCREWS

AN502 (fine thread) and AN503 (coarse thread) drilled head, slotted fillister head screws are fabricated from steel meeting specification MIL-S-6050. Tensile strength 125,000 PSI. Cadmium plated, Type I, Class 3.

AN502

AN502 Dash No.*	Length (In.)	Thread Size	Price Each
-10 -5	19/64	10-32	---
-10 -6	3/8	10-32	---
-10 -8	1/2	10-32	---
-10 -10	5/8	10-32	---
-10 -12	3/4	10-32	---
-10 -16	1	10-32	---
-416 -12	3/4	1/4-28	---
-416 -16	1	1/4-28	---

AN503

AN503 Dash No.*	Length (In.)	Thread Size	Price Each	AN503 Dash No.*	Length (In.)	Thread Size	Price Each
-6 -4	1/4	6-32	---	-10 -6	3/8	10-24	---
-6 -6	3/8	6-32	---	-10 -8	1/2	10-24	---
-8 -4	1/4	8-32	---	-10 -10	5/8	10-24	---
-8 -6	3/8	8-32	---	-10 -12	3/4	10-24	---
-8 -8	1/2	8-32	---	-10-16	1	10-24	---
-8 -10	5/8	8-32	---	-10 -24	1-1/2	10-24	---
-8 -16	1	8-32	---	-416 -8	1/2	1/4-20	---
				-416 -10	5/8	1/4-20	---
				-416 -12	3/4	1/4-20	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AN500, AN501 FILLISTER HEADSCREWS

AN500 (coarse thread) & AN501 (fine thread) slotted fillister head screws are fabricated from carbon steel. Tensile strength 60,000 PSI. Cadmium plated,Type II Class 3.
If there is an "A" after the dash, the part is cadmium plated, Type II, Class 3, with a drilled head. If there isn't an "A" after the dash, the part is Cadmium plated, Type I.

AN500

AN500 Dash No.*	MS35265 Dash No.	Length (In.)	Thread Size	Price ea. Drilled	Price ea. Undrilled
-A4-3	MS35265-12	3/16	4-40	---	---
-A4-4	MS35265-13	1/4	4-40	---	---
-A4-5	MS35265-14	5/16	4-40	---	---
-A4-6	MS35265-15	3/8	4-40	---	---
-A4-7	MS35265-16	7/16	4-40	---	---
-A4-8	MS35265-17	1/2	4-40	---	---
-A4-10	MS35265-18	5/8	4-40	---	---
-A4-12	MS35265-19	3/4	4-40	---	---
-A6-4	MS35265-26	1/4	6-32	---	---
-A6-5	MS35265-27	5/16	6-32	---	---
-A6-6	MS35265-28	3/8	6-32	---	---
-A6-7	MS35265-29	7/16	6-32	---	---
-A6-8	MS35265-30	1/2	6-32	---	---
-A6-10	MS35265-31	5/8	6-32	---	---
-A6-12	MS35265-32	3/4	6-32	---	---
-A6-14	MS35265-33	7/8	6-32	---	---
-A8-4	MS35265-41	1/4	8-32	---	---
-A8-5	MS35265-42	5/16	8-32	---	---
-A8-6	MS35265-43	3/8	8-32	---	---
-A8-7	MS35265-44	7/16	8-32	---	---
-A8-8	MS35265-45	1/2	8-32	---	---
-A8-10	MS35265-46	5/8	8-32	---	---
-A8-12	MS35265-47	3/4	8-32	---	---
-A8-14	MS35265-48	7/8	8-32	---	---
-A8-16	MS35265-49	1	8-32	---	---
-A10-4	MS35265-59	1/4	10-24	---	---
-A10-5	MS35265-60	5/16	10-24	---	---
-A10-6	MS35265-61	3/8	10-24	---	---
-A10-7	MS35265-62	7/16	10-24	---	---
-A10-8	MS35265-63	1/2	10-24	---	---
-A10-10	MS35265-64	5/8	10-24	---	---
-A10-12	MS35265-65	3/4	10-24	---	---
-A10-16	MS35265-66	1	10-24	---	---
-A416-8	MS35265-79	1/2	1/4-20	---	---
-A416-10	MS35265-80	5/8	1/4-20	---	---
-416-12	MS35265-81	3/4	1/4-20	---	---

AN501

AN501 Dash No.*	MS35266 Dash No.	Length (In.)	Thread Size	Price ea. Drilled	Price ea. Undrilled
-8-12	-47	3/4	8-36	---	---
-A10-4	-59	1/4	10-32	---	---
-A10-6	-61	3/8	10-32	---	---
-A10-8	-63	1/2	10-32	---	---
-A10-10	-64	5/8	10-32	---	---
-A10-12	-65	3/4	10-32	---	---
-A10-14	-66	7/8	10-32	---	---
-A10-16	-67	1	10-32	---	---
-A10-20	-68	1-1/4	10-32	---	---

AN500AD STAINLESS STEEL

AN500 Dash No.*	MS35275 Dash No.	Length (In.)	Thread Size	Price ea. Drilled	Price ea. Undrilled
-AD2-2	-201	1/8	2/56	---	---
-AD2-3	-202	3/16	2/56	---	---
-AD2-4	-203	1/4	2/56	---	---
-AD2-5	-204	5/16	2/56	---	---
-AD2-6	-205	3/8	2/56	---	---
-AD2-7	-206	7/16	2/56	---	---
-AD2-8	-207	1/2	2/56	---	---
-AD2-10	-208	5/8	2/56	---	---
-AD2-12	-209	3/4	2/56	---	---
-AD4-2	-211	1/8	4-40	---	---
-AD4-3	-212	3/16	4-40	---	---
-AD4-4	-213	1/4	4-40	---	---
-AD4-6	-215	3/8	4-40	---	---
-AD4-7	-216	7/16	4-40	---	---
-AD4-8	-217	1/2	4-40	---	---
-AD4-10	-218	5/8	4-40	---	---
-AD4-12	-219	3/4	4-40	---	---
-AD4-14	-220	7/8	4-40	---	---
-AD4-16	-221	1	4-40	---	---
-AD6-4	-226	1/4	6-32	---	---
-AD6-5	-227	5/16	6-32	---	---
-AD6-6	-228	3/8	6-32	---	---
-AD6-7	-229	7/16	6-32	---	---
-AD6-8	-230	1/2	6-32	---	---
-AD6-10	-231	5/8	6-32	---	---
-AD6-12	-232	3/4	6-32	---	---
-AD6-14	-233	7/8	6-32	---	---
-AD6-16	-234	1	6-32	---	---
-AD8-5	-242	5/16	8-32	---	---
-AD8-6	-243	3/8	8-32	---	---
-AD8-7	-244	7/16	8-32	---	---
-AD8-8	-245	1/2	8-32	---	---
-AD8-10	-246	5/8	8-32	---	---
-AD8-12	-247	3/4	8-32	---	---
-AD8-14	-248	7/8	8-32	---	---
-AD8-16	-249	1	8-32	---	---

AN501AD STAINLESS STEEL

AN501 Dash No.*	MS35276 Dash No.	Length (In.)	Thread Size	Price ea. Drilled	Price ea. Undrilled
-AD10-5	-260	5/16	10-32	---	---
-AD10-6	-261	3/8	10-32	---	---
-AD10-7	-262	7/16	10-32	---	---
-AD10-8	-263	1/2	10-32	---	---
-AD10-10	-264	5/8	10-32	---	---
-AD10-12	-265	3/4	10-32	---	---
-AD10-14	-266	7/8	10-32	---	---
-AD10-16	-267	1	10-32	---	---

MS51957 / MS51958 STAINLESS MACHINE SCREWS

• Phillips Pan Head • 300 Series Stainless Steel • Finish - Passivate per QQ-P-35

Thread	Length	Phillips Part No.	Price Each
2-56	.188	MS51957-2	---
	.250	MS51957-3	---
	.312	MS51957-4	---
	.375	MS51957-5	---
	.438	MS51957-6	---
	.500	MS51957-7	---
	.750	MS51957-9	---
	.875	MS51957-10	---
4-40	.188	MS51957-12	---
	.250	MS51957-13	---
	.312	MS51957-14	---
	.375	MS51957-15	---
	.438	MS51957-16	---
	.500	MS51957-17	---
	.625	MS51957-18	---
	.750	MS51957-19	---
	.875	MS51957-20	---
	1.00	MS51957-21	---
6-32	.188	MS51957-25	---
	.250	MS51957-26	---
	.312	MS51957-27	---
	.375	MS51957-28	---
	.438	MS51957-29	---
6-32	.500	MS51957-30	---
	.625	MS51957-31	---
	.750	MS51957-32	---
	.875	MS51957-33	---
	1.00	MS51957-34	---
8-32	.250	MS51957-41	---
	.312	MS51957-42	---
	.375	MS51957-43	---
	.438	MS51957-44	---
	.500	MS51957-45	---
	.625	MS51957-46	---
	.750	MS51957-47	---
	.875	MS51957-48	---
	1.00	MS51957-49	---
10-32	.312	MS51958-60	---
	.375	MS51958-61	---
	.438	MS51958-62	---
	.500	MS51958-63	---
	.625	MS51958-64	---
	.750	MS51958-65	---
	.875	MS51958-66	---
	1.00	MS51958-67	---
	1.25	MS51958-68	---

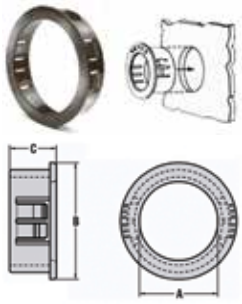
SNAP BUSHINGS

Ideal for abrasion and cutting protection of wiring, antenna leads, tubing, cables, etc. that are routed through bulkheads, ribs and other internal aircraft structures. Made of hard black nylon. Drill a hole about 1/8" larger than bushing I.D. and insert bushing. Spring-like fingers snap out to hold it in place. Special sizes on request with 100 piece minimum. *For .062" max. bulkhead thickness. All others for .125" max. bulkhead thickness.

Mounting Part No.	Hole Dia.	Bushing I.D.	Price Each
04-05700*	.250	1/8"	---
04-05710*	.312	3/16"	---
04-05730	.375	1/4"	---
04-05738	.437	1/4"	---
04-05758	.500	1/4"	---
04-05753	.500	3/8	---
04-05775	.625	1/4"	---
04-05773	.625	1/2"	---
04-05790	.750	3/8"	---
04-05793	.750	9/16"	---

***For .062" max. bulkhead thickness.**
All others for .125" max. bulkhead thickness.

SNAP BUSHINGS



Converts raw-edged holes to smooth, neat, insulated holes. Locking fingers "snap" into holes with fingertip pressure. Locking finger steps are designed at fractional increments to accommodate a range of panel thicknesses up to .250" (6,4 mm). Withstands a push back force of 35 pounds.

Features: • Converts raw-edged holes to smooth, neat, insulated holes • Locking fingers "snap" into holes with fingertip pressure • Locking finger steps are designed at fractional increments to accommodate a range of panel thicknesses up to .250" (6,4 mm) • Withstands a push back force of 35 pounds • Insulates and mechanically protects electrical and telecommunications cables, tubing, hose, rope, and utility lines • Sizes greater than 2" are also known as "Biggie Bushings"

Panel Dimensions				UL/CSA Designation	Part Dimensions					
Maximum Thickness		Mounting Hole Dia.			A Inside Diameter		B Head Diameter		C Overall Height	
in.	mm.	in.	mm.		in.	mm.	in.	mm.	in.	mm.
.125	3.2	1.093 - 1.125	27, 8-28, 6	SB1093 - 14	.875	22.2	1.218	30.9	.453	11.5
.125	3.2	1.093 - 1.125	27, 8-28, 6	SB1093 -15	.937	23.8	1.218	30.9	.453	11.5

Model 2163 - Color: Black 2163 .....P/N 04-01985 ..... ---
Model 2166 - Color: Black 2166 .....P/N 04-01986 ..... ---

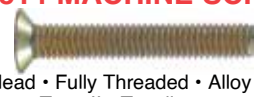
SHORTY BUSHING 2820

Material: 6/6 Nylon
Certifications: • File E15331 • File LR8919
Flammability Rating: 94V-2
Material Temperature Index: 125°C (257°F)–Max. temperature on part not to exceed 105°C (221°F)

Insulating feed-thru bushings for limited internal clearance applications. Insulates and isolates electric or telecommunications cables as well as low RPM shafts and push-pull rods. Locking fingers hold securely after only fingertip pressure snap-in installation. Locking finger steps are designed at fractional increments to accommodate panel thicknesses less than the maxiumum .....P/N 04-02026 .....

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

NAS514 MACHINE SCREWS



• Phillips 100° Flat Head • Fully Threaded • Alloy Steel (8740) • Finish - Cadmium per QQ-P-416 Type II • Tensile -125,000 145,000 PSI

Thread	Length	Phillips Part No.	Price Ea.
4-40	.250	NAS514P440-4P	---
	.312	NAS514P440-5P	---
	.375	NAS514P440-6P	---
	.438	NAS514P440-7P	---
	.500	NAS514P440-8P	---
	.625	NAS514P440-10P	---
	.750	NAS514P440-12P	---
6-32	.188	NAS514P632-3P	---
	.250	NAS514P632-4P	---
	.312	NAS514P632-5P	---
	.375	NAS514P632-6P	---
	.438	NAS514P632-7P	---
	.500	NAS514P632-8P	---
	.625	NAS514P632-10P	---
	.750	NAS514P632-12P	---
	.875	NAS514P632-14P	---
	1.00	NAS514P632-16P	---
8-32	.250	NAS514P832-4P	---
	.312	NAS514P832-5P	---
	.375	NAS514P832-6P	---
	.438	NAS514P832-7P	---
	.500	NAS514P832-8P	---
	.625	NAS514P832-10P	---
	.750	NAS514P832-12P	---
	.875	NAS514P832-14P	---
	1.00	NAS514P832-16P	---
	1.25	NAS514P832-20P	---
10-32	.250	NAS514P1032-4P	---
	.312	NAS514P1032-5P	---
	.375	NAS514P1032-6P	---
	.438	NAS514P1032-7P	---
	.500	NAS514P1032-8P	---
	.625	NAS514P1032-10P	---
	.750	NAS514P1032-12P	---
	.875	NAS514P1032-14P	---
	1.00	NAS514P1032-16P	---
	1.25	NAS514P1032-20P	---

AN535 DRIVE SCREWS

Hardened steel screws to make permanent fastenings to ferrous and non-ferrous castings, heavy gauge steel, plastics, etc. Cadmiumplated. Spec. MS21318

AN535 Dash No.	MS21318 Dash No.	Dia. In.	Length In.	Recommended Drill Size	Price Each
-00-4	-3	.060	1/4	#55 (.052")	---
-0-4	-9	.075	1/4	#51 (.067")	---
-2-3	-14	.100	3/16	#44 (.086")	---
-2-4	-15	.100	1/4	#44 (.086")	---
-4-4	-21	.116	1/4	#37 (.104")	---
-00-2	-1	.060	1/8	#55 (.052")	---
-00-3	-2	.060	3/16	#55 (.052")	---
-0-2	-7	.075	1/8	#51 (.067")	---
-0-3	-8	.075	3/16	#51 (.067")	---
-2-2	-13	.100	1/8	#44 (.086")	---
-4-3	-20	.116	3/16	#37 (.104")	---
-4-5	-22	.116	5/16	#37 (.104")	---

NAS517 FLUSH HEAD SCREWS

• Phillips 100 Deg. Flat Head • Alloy Steel Per Mil-S-6049 • Finish - Cad Plate per QQ-P-416 Type II

Thread	Grip	Length	Phillips Part No.	Price Ea.
8-32	-	.469	NAS517-2-1	---
	.125	.531	NAS517-2-2	---
	.188	.594	NAS517-2-3	---
	.250	.656	NAS517-2-4	---
	.312	.719	NAS517-2-5	---
	.375	.781	NAS517-2-6	---
	.438	.844	NAS517-2-7	---
	.500	.906	NAS517-2-8	---
	.562	.969	NAS517-2-9	---
	.625	1.031	NAS517-2-10	---
10-32	.688	1.093	NAS517-2-11	---
	.750	1.156	NAS517-2-12	---
	-	.406	NAS517-3-0	---
	-	.469	NAS517-3-1	---
	.125	.531	NAS517-3-2	---
	.188	.594	NAS517-3-3	---
	.250	.656	NAS517-3-4	---
	.312	.719	NAS517-3-5	---
	.375	.781	NAS517-3-6	---
	.438	.844	NAS517-3-7	---
	.500	.906	NAS517-3-8	---
	.562	.969	NAS517-3-9	---
	.625	1.031	NAS517-3-10	---
	.688	1.093	NAS517-3-11	---
	.750	1.156	NAS517-3-12	---
	.812	1.219	NAS517-3-13	---
	.875	1.281	NAS517-3-14	---
	1.00	1.406	NAS517-3-16	---

SET SCREWS

Set screws are used to provide immediate, binding location of various parts on shafts. Maximum holding pressure is made by the cup point edge gripping the contact suface. Allen head wrenches are used to operate set screws.

Part No.	Thread	Length	Price
04-00182	8-32	3/16	---
04-00183	8-32	1/4	---
04-00184	10-32	1/4	---
04-00189	10-32	1/2	---
04-00191	1/4-28	5/16	---

10-32 X1/4 INCH ALLEN SET SCREW

Set Screw - Socket Products Type: Socket Set Screws Point Type: Cup Thread Size: 10-32 Overall Length: 1/4 Material: Alloy Steel - Grade 8 Finish/Coating: Black Oxide. Key Size (Inch): 3/32. Metalworking Book: 2085. Big Book: 1830 .....P/N 04-01032 ..... ---

HA

NAS600 - NAS603 MACHINE SCREWS

- Phillips Pan Head
- Alloy Steel (8740)
- Finish - Cadmium per QQ-P-416
- Tensile -160,000 - 180,000 PSI

Thread	Length	Part No.	Price Ea.
4-40	.188	NAS600-3P	---
	.250	NAS600-4P	---
	.312	NAS600-5P	---
	.375	NAS600-6P	---
	.438	NAS600-7P	---
	.500	NAS600-8P	---
6-32	.188	NAS601-3P	---
	.250	NAS601-4P	---
	.312	NAS601-5P	---
	.375	NAS601-6P	---
	.438	NAS601-7P	---
	.500	NAS601-8P	---
	.562	NAS601-9P	---
	.625	NAS601-10P	---
	.750	NAS601-12P	---
8-32	.188	NAS602-3P	---
	.250	NAS602-4P	---
	.312	NAS602-5P	---
	.375	NAS602-6P	---
	.438	NAS602-7P	---
	.500	NAS602-8P	---
	.562	NAS602-9P	---
	.625	NAS602-10P	---
	.688	NAS602-11P	---
	.750	NAS602-12P	---
	.813	NAS602-13P	---
	875	NAS602-14P	---
	1.00	NAS602-16P	---
10-32	.250	NAS603-4P	---
	.312	NAS603-5P	---
	.375	NAS603-6P	---
	.438	NAS603-7P	---
	.500	NAS603-8P	---
	.562	NAS603-9P	---
	.625	NAS603-10P	---
	.688	NAS603-11P	---
	.750	NAS603-12P	---
	.813	NAS603-13P	---
	.875	NAS603-14P	---
	.938	NAS603-15P	---
	1.00	NAS603-16P	---
	1.125	NAS603-18P	---
	1.25	NAS603-20P	---

NAS1202 / NAS1203 FLUSH HEAD SCREWS

- Phillips 100° Flat Head
- Tensile – 160,000 – 180,000 PSI
- Alloy Steel Per MIL-S-6049
- Finish - Cadmium per QQ-P-416, Type II

Thread	Grip	Length	Part No.	Price Ea.
8-32	.125	.401	NAS1202-2	---
	.188	.464	NAS1202-3	---
	.250	.526	NAS1202-4	---
	.312	.588	NAS1202-5	---
	.375	.651	NAS1202-6	---
10-32	.125	.401	NAS1203-2	---
	.188	.464	NAS1203-3	---
	.250	.526	NAS1203-4	---
	.312	.588	NAS1203-5	---
	.375	.651	NAS1203-6	---
	.438	.714	NAS1203-7	---
	.500	.776	NAS1203-8	---

MS51959 MACHINE SCREWS

- Phillips 82° Flat Head
- Stainless Steel

Thread	Length	Part No.	Each
2-56	.188	MS51959-2	---
	.250	MS51959-3	---
	.312	MS51959-4	---
	.375	MS51959-5	---
	.250	MS51959-13	---
4-40	.312	MS51959-14	---
	.375	MS51959-15	---
	.438	MS51959-16	---
	.500	MS51959-17	---
6-32	.312	MS51959-27	---
	.375	MS51959-28	---
	.438	MS51959-29	---
	.500	MS51959-30	---
	.625	MS51959-31	---
8-32	.375	MS51959-43	---
	.438	MS51959-44	---
	.500	MS51959-45	---
	.625	MS51959-46	---
	.750	MS51959-47	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

NAS1096 HEX HEAD SCREWS

- Phillips Hex Head
- Alloy Steel per MIL-S-6049
- Finish - Cadmium per QQ-P-416 Type II
- Tensile – 125,000-145,000 PSI

Thread	Length	Part No.	Price Ea.
6-32	.375	NAS1096-1-6	---
	.438	NAS1096-1-7	---
	.500	NAS1096-1-8	---
	.562	NAS1096-1-9	---
	.625	NAS1096-1-10	---
	.750	NAS1096-1-12	---
8-32	.312	NAS1096-2-5	---
	.375	NAS1096-2-6	---
	.438	NAS1096-2-7	---
	.500	NAS1096-2-8	---
	.562	NAS1096-2-9	---
	.625	NAS1096-2-10	---
	.750	NAS1096-2-12	---
10-32	.312	NAS1096-3-5	---
	.375	NAS1096-3-6	---
	.438	NAS1096-3-7	---
	.500	NAS1096-3-8	---
	.562	NAS1096-3-9	---
	.625	NAS1096-3-10	---
	.750	NAS1096-3-12	---
	.875	NAS1096-3-14	---
	1.00	NAS1096-3-16	---
	1.25	NAS1096-3-20	---

NAS1801 HEX HEAD SCREWS

- Phillips Hex Head
- Alloy Steel Per MIL-S-6049
- Finish - Cad Plate per QQ-P-416, Type II
- Tensile – 160,000-185,000 PSI

Thread	Length	Part No.	Price Ea.
8-32	.250	NAS1801-08-4	---
	.312	NAS1801-08-5	---
	.375	NAS1801-08-6	---
	.438	NAS1801-08-7	---
	.500	NAS1801-08-8	---
	.562	NAS1801-08-9	---
	.625	NAS1801-08-10	---
	.750	NAS1801-08-12	---
	.875	NAS1801-08-14	---
	1.00	NAS1801-08-16	---
	1.125	NAS1801-08-18	---
	1.25	NAS1801-08-20	---
	1.375	NAS1801-08-22	---
10-32	.312	NAS1801-3-5	---
	.375	NAS1801-3-6	---
	.438	NAS1801-3-7	---
	.500	NAS1801-3-8	---
	.562	NAS1801-3-9	---
	.625	NAS1801-3-10	---
	.750	NAS1801-3-12	---
	.875	NAS1801-3-14	---
	1.00	NAS1801-3-16	---
	1.125	NAS1801-3-18	---
	1.25	NAS1801-3-20	---
	1.375	NAS1801-3-22	---
	1.50	NAS1801-3-24	---

NAS623 PAN HEAD SCREWS

- Phillips Pan Head
- Alloy Steel per MIL-S-6049
- Finish: Cadmium per QQ-P-416, Type II
- Tensile: 160,000-180,000 PSI

Thread	Length	Part No.	Each
8-32	.338	NAS623-2-1	---
	.401	NAS623-2-2	---
	.464	NAS623-2-3	---
	.526	NAS623-2-4	---
	.588	NAS623-2-5	---
	.651	NAS623-2-6	---
	.714	NAS623-2-7	---
	.776	NAS623-2-8	---
	.838	NAS623-2-9	---
	.901	NAS623-2-10	---
	.964	NAS623-2-11	---
	1.026	NAS623-2-12	---
10-32	.401	NAS623-3-2	---
	.464	NAS623-3-3	---
	.526	NAS623-3-4	---
10-32	.588	NAS623-3-5	---
	.651	NAS623-3-6	---
	.714	NAS623-3-7	---
	.776	NAS623-3-8	---
	.838	NAS623-3-9	---
	.901	NAS623-3-10	---
	.964	NAS623-3-11	---
	1.026	NAS623-3-12	---
	1.088	NAS623-3-13	---
	1.151	NAS623-3-14	---
	1.214	NAS623-3-15	---
	1.276	NAS623-3-16	---
	1.338	NAS623-3-17	---
	1.401	NAS623-3-18	---

SHEET METAL SCREWS

TRUSS HEAD TYPE A STAINLESS

Size	Length	Phillips		Slotted	
		Part No.	Price Each	Part No.	Price Each
4	1/4	T4X4	---	TS4X4	---
	3/8	T4X6	---	TS4X6	---
	1/2	T4X8	---	TS4X8	---
6	1/4	T6X4	---	TS6X4	---
	3/8	T6X6	---	TS6X6	---
	1/2	T6X8	---	TS6X8	---
	5/8	T6X10	---	TS6X10	---
	3/4	T6X12	---	TS6X12	---
	1	T6X16	---	TS6X16	---
8	3/8	T8X6	---	TS8X6	---
	1/2	T8X8	---	TS8X8	---
	5/8	T8X10	---	TS8X10	---
	3/4	T8X12	---	TS8X12	---
	1	T8X16	---	TS8X16	---
	1-1/4	T8X20	---	TS8X20	---
10	3/8	T10X6	---	TS10X6	---
	1/2	T10X8	---	TS10X8	---
	5/8	T10X10	---	TS10X10	---
	3/4	T10X12	---	TS10X12	---
	1	T10X16	---	TS10X16	---
	1-1/4	T10X20	---	TS10X20	---

TRUSS HEAD TYPE B PHILLIPS STAINLESS

Size	Head Size	L (in)	Part No.	Price
4	1/4”	1/4	04-00164	---
		3/8	04-00166	---
		1/2	04-00167	---
6	5/16”	1/4	04-00168	---
		3/8	04-00169	---
		1/2	T6X8B	---
		5/8	04-00171	---
		3/4	04-00172	---
		1	04-00173	---
8	3/8”	3/8	04-00174	---
		1/2	T8X8B	---
		5/8	04-00007	---
		3/4	04-00176	---
		1	04-00177	---
10	7/16”	3/8	04-00178	---
		1/2	T10X8B	---
		5/8	04-00008	---
		3/4	04-00179	---
		1	04-00181	---

82° OVAL HEAD TYPE A, PHILLIPS (FOR UPHOLSTERY)

Size	Length	Stainless Part No.	Price Each	Zinc Part No.	Price Each
4	1/4	O4X4	---	O4X4Z	---
	3/8	O4x6	---	O4X6Z	---
	1/2	O4X8	---	O4X8Z	---
	5/8	O4X10	---	O4X10Z	---
	1/2	O6X8	---	O6X8Z	---
	5/8	O6X10	---	O6X10Z	---
	3/4	O6X12	---	O6X12Z	---
	1	O6X16	---	O6X16Z	---
8	3/8	O8X6	---	O8X6Z	---
	3/4	O8X12	---	O8X12Z	---
	1	O8X16	---	O8X16Z	---
10	1/2	O10X8	---	O10X8Z	---
	3/4	O10X12	---	O10X12Z	---

100° FLAT HEAD TYPE A, PHILLIPS, STAINLESS

Size	Length	Part No.	Price
6	1/2	6RX1/2-A-FL-SS	---
8	1/2	C8X8	---
10	1/2	10RX1/2-A-FL-SS	---
10	5/8	10RX5/8-A-FL-SS	---

AN530 ROUND HEAD

(Use slotted type for antiques)

Size	Slotted		Phillips	
	Price	P/N AN530 Dash#	Price	P/N AN530 Dash#
4X1/4	---	----	---	4R4
4X3/8	---	-4-6	---	N/A
4X1/2	---	---	---	4R8
6X3/8	---	-6-6	---	6R6
6X1/2	---	-6-8	---	6R8
6X5/8	---	---	---	6R10
6X3/4	---	-6-12	---	6R12
8X3/8	---	---	---	8R6
8X1/2	---	---	---	8R8
10X1/2	---	10-8	---	10R8

FLAT HEAD TYPE B, PHILLIPS, STAINLESS

Size	Length	Degree	Part No.	Price Ea
6	3/8	100°	MS21207-C6-6	---
6	1/2	100°	MS21207-C6-8	---
8	1/2	100°	MS21207-C8-8	---
8	5/8	100°	MS21207-C8-10	---
10	1/2	100°	MS21207-C10-8	---
8	1/2	82°	04-00187	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SHEET METAL SCREWS

ZINC-PLATED, TRUSS HEAD TYPE A & TYPE B

Size	Length	Phillips			Slotted		
		Part No. Type A	Part No. Type B	Price Each	Part No. Type A	Part No. Type B	Price Each
4	1/4	THA4X4	THB4X4	---	THA4-4	------	---
4	3/8	THA4X6	THB4X6	---	THA4-6	------	---
4	1/2	THA4X8	THB4X8	---	THA4-8	------	---
4	5/8	THA4X10	THB4X10	---	THA4-10	------	---
4	3/4	THA4X12	THB4X12	---	THA4-12	------	---
4	7/8	THA4X14	------	----	-----	------	---
6	3/8	THA6X6	THB6X6	---	THA6-6	------	---
6	1/2	THA6X8	THB6X8	---	THA6-8	------	---
6	3/4	THA6X12	THB6X12	---	THA6-12	------	---
8	3/8	THA8X6	THB8X6	---	THA8-6	------	---
8	1/2	THA8X8	THB8X8	---	THA8-8	------	---
8	5/8	THA8X10	THB8X10	---	THA8-10	------	---
8	3/4	THA8X12	THB8X12	---	THA8-12	------	---
8	1	THA8X16	THB8X16	---	THA8-16	------	---
10	1/2	THA10X8	THB10X8	---	THA10-8	------	---
10	5/8	THA10X10	THB10X10	---	THA10-10	------	---
10	3/4	THA10X12	THB10X12	---	THA10-12	------	---
10	1	THA10X16	THB10X16	---	THA10-16	------	---

ZINC-PLATED, 82° FLAT HEAD TYPE A ZINC-PLATED STEEL

Size	Length	Phillips		
		Part No. Type A	Part No. Type B	Price Each
4	1/4	FHA4X4	FHB4X4	---
4	3/8	FHA4X6	FHB4X6	---
4	1/2	FHA4X8	FHB4X8	---
4	5/8	FHA4X10	FHB4X10	------
4	3/4	FHA4X12	FHB4X12	------
6	3/8	FHA6X6	FHB6X6	---
6	1/2	FHA6X8	FHB6X8	---
6	5/8	FHA6X10	FHB6X10	---
6	3/4	FHA6X12	FHB6X12	---
8	3/8	FHA8X6	FHB8X6	---
8	1/2	FHA8X8	FHB8X8	---
8	5/8	FHA8X10	FHB8X10	---
8	3/4	FHA8X12	FHB8X12	---
10	1/2	FHA10X8	FHB10X8	---
10	5/8	FHA10X10	FHB10X10	---
10	3/4	FHA10X12	FHB10X12	------

MS51861 SERIES SCREWS

MS numbers without the C at the end - Material: Carbon Steel Type 1016 - 1024 Finish: CAD TYPE II
MS numbers with the C at the end - Material: Stainless Steel Type 410 Finish: Passivate

Size	Length	Part No.	Price each	Part No.	Price each
#4	1/4	MS51861-12	---	MS51861-12C	---
	3/8	MS51861-14	---	MS51861-14C	---
	1/2	MS51861-15	---	MS51861-15C	---
#6	1/4	MS51861-22	---	MS51861-22C	---
	3/8	MS51861-24	---	MS51861-24C	---
	1/2	MS51861-25	---	MS51861-25C	---
	5/8	MS51861-26	---	MS51861-26C	---
	3/4	MS51861-27	---	MS51861-27C	---
	1	MS51861-29	---	MS51861-29C	---
#8	3/8	MS51861-34	---	MS51861-34C	---
	1/2	MS51861-35	---	MS51861-35C	---
	5/8	MS51861-36	---	MS51861-36C	---
	3/4	MS51861-37	---	MS51861-37C	---
	1	MS51861-39	---	MS51861-39C	---
#10	1/2	MS51861-45	---	MS51861-45C	---
	5/8	MS51861-46	---	MS51861-46C	---
	3/4	MS51861-47	---	MS51861-47C	---
	1	MS51861-49	---	MS51861-49C	---

FUEL TANK STRUCTURAL STAINLESS SCREW KITS (PER TANK)

Aircraft Model	Part No.	Price
Cessna 150/152 (Standard)	04-01005	---
Cessna 150/152 (Long Range)	04-01004	---
Cessna 172	04-01003	---
Cessna 172 (Long Range)	04-02068	---
Piper PA28 Cherokee (Standard)	04-01002	---
Piper PA28 Cherokee (Long Range)	04-01001	---
Cessna 150 Aerobat	04-01006	---
Cessna150/152 (67-77)	04-01008	---
Cessna 170AF	04-01009	---
Cessna 182F	04-01011	---
Piper Cherokee 140/150/160/180/235 (Cad. Plated)	04-01015	---

HA

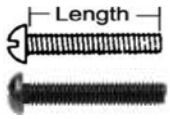
MACHINE SCREWS

HA

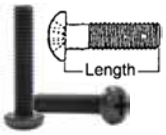
BRASS INSTRUMENT SCREWS

Use brass screws for all panel installations to eliminate magnetic interference. All brass screws are coated in black oxide.

AN515 & AN520 ROUND HEAD SCREWS



Part Number	Length (In.)	Thread Size	Price Each
AN515B6R8 (Phillips)	1/2	6-32	---
AN515B6-8 (Slot)	1/2	6-32	---
AN515B6-12 (Slot)	3/4	6-32	---
AN515B8-16 (Slot)	1	8-32	---
AN515B10-16 (Slot)	1	10-24	---



MS35214 & MS35215 PAN HEAD SCREWS

Part No.	Length	Thread	Price
MS35214-12	1/4"	4-40	---
MS35214-13	5/16"	4-40	---
MS35214-14	3/8"	4-40	---
MS35214-15	7/16"	4-40	---
MS35214-16	1/2"	4-40	---
MS35214-18	3/4"	4-40	---
MS35214-23	1/4"	6-32	---
MS35214-24	5/16"	6-32	---
MS35214-26	7/16"	6-32	---
MS35214-27	1/2"	6-32	---
MS35214-28	5/8"	6-32	---
MS35214-29	3/4"	6-32	---
MS35214-30	7/8"	6-32	---
MS35214-31	1"	6-32	---
MS35214-32	1-1/4"	6-32	---
MS35214-33	1-1/2"	6-32	---

Part No.	Length	Thread	Price
MS35214-40	3/8"	8-32	---
MS35214-41	7/16"	8-32	---
MS35214-42	1/2"	8-32	---
MS35214-43	5/8"	8-32	---
MS35214-44	3/4"	8-32	---
MS35214-45	7/8"	8-32	---
MS35214-46	1"	8-32	---
MS35214-47	1-1/4"	8-32	---
MS35214-48	1-1/2"	8-32	---
MS35214-59	1"	10-24	---
MS35215-53	3/8"	10-32	---
MS35215-55	1/2"	10-32	---
MS35215-56	5/8"	10-32	---
MS35215-57	3/4"	10-32	---
MS35215-59	1"	10-32	---
MS35215-60	1-1/4"	10-32	---

MS24693 FLAT HEAD SCREWS (RECESSED)

Part Number	Length	Thread	Price
MS24693BB2	.250	4-40	---
MS24693BB3	.312	4-40	---
MS24693BB4	.375	4-40	---
MS24693BB5	.438	4-40	---
MS24693BB6	.500	4-40	---
MS24693BB7	.625	4-40	---
MS24693BB24	.250	6-32	---
MS24693BB25	.312	6-32	---
MS24693BB26	.375	6-32	---
MS24693BB27	.438	6-32	---
MS24693BB28	.500	6-32	---
MS24693BB29	.625	6-32	---
MS24693BB30	.750	6-32	---
MS24693BB31	.875	6-32	---

Part Number	Length	Thread	Price
MS24693BB32	1.00	6-32	---
MS24693BB33	1.13	6-32	---
MS24693BB34	1.25	6-32	---
MS24693BB36	1.50	6-32	---
MS24693BB48	.375	8-32	---
MS24693BB50	.500	8-32	---
MS24693BB51	.625	8-32	---
MS24693BB54	1	8-32	---
MS24693BB56	1.25	8-32	---
MS24693BB272	.500	10-32	---
MS24693BB273	.625	10-32	---
MS24693BB274	.750	10-32	---
MS24693BB276	1.00	10-32	---
MS24693BB278	1.25	10-32	---

STAINLESS STEEL SCREW, WASHER & STOP NUT ASSORTMENT

This 2400 piece assortment is ideal for aircraft homebuilders, owners, mechanics and FBO's. It is packaged in a handy divided storage kit and contains 2100 stainless steel screws and washers and 300 stop nuts. Kit contains 100 each of the following:

WASHERS

Tinnerman Countersunk
A3135- SS- 017 (#8)
A3235- SS- 020 (#10)
Flat: AN960C6
AN960C8 or AN960C10

ELASTIC STOP NUTS

AN365C632
AN365C832
AN365C1032

SHEET METAL SCREWS

Truss Head Phillips, Type A (Sharp Point)

4R x 1/2	8R x 1/2
6R x 3/8	8R x 5/8
6R x 1/2	10R x 1/2

NON-STRUCTURAL MACHINE SCREWS

Countersunk Flat Head
AN507C632R8
AN507C832R8
AN507C832R10
AN507C1032R8
AN507C1032R10

Truss Head
AN526C632R8
AN526C832R8
AN526C832R10
AN526C1032R8
AN526C1032R10

STAINLESS STEEL HARDWARE ASSORTMENT

P/N 04-05000 ..... ---

INDIVIDUAL AIRPLANE EXTERIOR STAINLESS TRIM SCREW AND WASHER KITS

These kits do not include any structural screws.

Aircraft Type	# of Pieces	Part No.	Price
BEECHCRAFT			
Baron	1310	04-04400	---
Bonanza	675	04-04300	---
Musketeer/Sport	615	04-04350	---
Sundowner	615	04-04350	---
BELLANCA			
Citabria	248	04-00990	---
Viking	-	04-00880	---
CESSNA			
120/140	310	04-01200	---
150/152	355	04-01000	---
170	310	04-01200	---
170-B	310	04-01200	---
172/172 Skyhawk	410	04-01100	---
172RG	330	04-01400	---
172 XP	520	04-01300	---
175	450	04-01500	---
177/177RG Cardinal	600	04-01600	---
180/185 Skywagon	530	04-01700	---
182RG Skylane	580	04-01900	---
188 Agwagon	775	04-02000	---
190/195	370	04-02100	---
205	510	04-02200	---
206-208 Stationair	555	04-02300	---
210 Centurion	630	04-02400	---
310/320	1110	04-02500	---
335/340	1492	04-02510	---
336/337	1347	04-02700	---
401/402	1468	04-00401	---
411/414	1342	04-02750	---
421	1580	04-02800	---
Commander - Lark/Darter	-	04-04510	---
Ercoupe - 415C/Forney	525	04-04900	---
GRUMMAN			
AA1A/AA1B	490	04-04600	---
Ag Cat	515	04-04800	---
Cheetah/Tiger	975	04-04700	---
Lake - Amphibian	265	04-04710	---
PIPER			
Aerostar	-	04-04720	---
Apache	-	04-04730	---
Arrow	615	04-03800	---
Arrow III	590	04-03810	---
Aztec	1050	04-03200	---
Cherokee 140/150/160/180/235	570	04-03600	---
Cherokee Six	455	04-04000	---
Comanche (Single)	485	04-03300	---
Comanche (Twin)	800	04-03900	---
J-3 Cub	-	04-03910	---
Navajo	2065	04-03920	---
Pawnee	1965	04-03400	---
PA28 Arrow (Fat Wing)	615	04-03800	---
PA28 Challenger/Archer	670	04-03500	---
PA28R Arrow (Tap. Wing)	590	04-03810	---
PA32R Lance	685	04-04010	---
Seneca I & II	1415	04-04100	---
Super Cub	-	04-04110	---
Tomahawk	440	04-04200	---
Tripacer/Colt	360	04-03100	---
Warrior/Archer	480	04-03700	---
Pitts - S2A	640	04-03710	---
Rockwell - 12/114	570	04-03720	---
MOONEY			
68, 77, 78	1240	04-02900	---
201/231	970	04-03050	---
M20C	1022	04-02820	---
M20-C 69, 76	-	04-03000	---
M20E/G (up to 1976)	-	04-02830	---
M20E/G (1977 & up)	-	04-02840	---
M20F	-	04-02850	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SOCKET HEAD CAP SCREWS

SOCKET HEAD CAP SCREW STAINLESS STEEL-DRILLED

Part Number	MS Number	Thread	Length	Price
NAS1352C04H4		4-40	1/4”	---
NAS1352C04H6		4-40	3/8”	---
NAS1352C06H6	MS24674-2	6-32	3/8”	---
NAS1352C06H8	MS24674-3	6-32	1/2”	---
NAS1352C08H6	MS24674-7	8-32	3/8”	---
NAS1352C08H8	MS24674-8	8-32	1/2”	---
NAS1352C08H10	MS24674-9	8-32	5/8”	---
NAS1351C3H6	MS24673-1	10-32	3/8”	---
NAS1351C3H8	MS24673-2	10-32	1/2”	---
NAS1351C3H10	MS24673-3	10-32	5/8”	---
NAS1351C4H10	MS24673-10	1/4”-28	5/8”	---
NAS1351C4H12	MS24673-11	1/4”-28	3/4”	---
NAS1351C4H14	MS24673-12	1/4”-28	7/8”	---
NAS1351C4H16	MS24673-13	1/4”-28	1	---

SOCKET HEAD CAP SCREW ALLOY STEEL-DRILLED

Part Number	MS Number	Thread	Length	Price
NAS1352-04H4P	MS24677-1	4-40	1/4”	---
NAS1352-04H6P	MS24677-2	4-40	3/8”	---
NAS1352-06H6P	MS24677-7	6-32	3/8”	---
NAS1352-06H8P	MS24677-8	6-32	1/2”	---
NAS1352-06H10P	MS24677-9	6-32	5/8”	---
NAS1352-08H6P	MS24677-14	8-32	3/8”	---
NAS1352-08H8P	MS24677-15	8-32	1/2”	---
NAS1352-08H10P	MS24677-16	8-32	5/8”	---
NAS1352-08H12P	MS24677-17	8-32	3/4”	---
NAS1351-3H6P	MS24678-9	10-32	3/8”	---
NAS1351-3H8P	MS24678-10	10-32	1/2”	---
NAS1351-3H10P	MS24678-11	10-32	5/8”	---
NAS1351-3H12P	MS24678-12	10-32	3/4”	---
NAS1351-4H10P	MS24678-21	1/4-28	5/8”	---
NAS1351-4H12P	MS24678-22	1/4-28	3/4”	---
NAS1351-4H14P	MS24678-23	1/4-28	4/8”	---
NAS1351-4H16P	MS24678-24	1/4-28	1”	---

SOCKET HEAD CAP SCREW STAINLESS STEEL-UNDRILLED

Part Number	MS Number	Thread	Length	Price
NAS1352C04-4	MS16995-9	4-40	1/4”	---
NAS1352C04-8	MS16995-11	4-40	1/2”	---
NAS1352C06-4	MS16995-16	6-32	1/4”	---
NAS1352C06-6	MS16995-17	6-32	3/8”	---
NAS1352C06-8	MS16995-18	6-32	1/2”	---
NAS1352C06-10	MS16995-19	6-32	5/8”	---
NAS1352C08-6	MS16995-25	8-32	3/8”	---
NAS1352C08-8	MS16995-26	8-32	1/2”	---
NAS1352C08-10	MS16995-27	8-32	5/8”	---
NAS1352C08-12	MS16995-28	8-32	3/4”	---
NAS1351C3-6	MS16996-9	10-32	3/8”	---
NAS1351C3-8	MS16996-10	10-32	1/2”	---
NAS1351C3-10	MS16996-11	10-32	5/8”	---
NAS1351C3-12	MS16996-12	10-32	3/4”	---
NAS1351C4-10	MS16996-22	1/4-28	5/8”	---
NAS1351C4-12	MS16996-23	1/4-28	3/4”	---
NAS1351C4-16	MS16996-24	1/4-28	1”	---

SOCKET HEAD CAP SCREW ALLOY STEEL UN-DRILLED

Part Number	MS Number	Thread	Length	Price
NAS1352-04-4P	MS16997-9	4-40	1/4”	---
NAS1352-04-6P	MS16997-10	4-40	3/8”	---
NAS1352-04-8P	MS16997-11	4-40	1/2”	---
NAS1352-06-6P	MS16997-19	6-32	3/8”	---
NAS1352-06-8P	MS16997-20	6-32	1/2”	---
NAS1352-06-10P	MS16997-21	6-32	5/8”	---
NAS1352-08-6P	MS16997-31	8-32	3/8”	---
NAS1352-08-8P	MS16997-32	8-32	1/2”	---
NAS1352-08-10P	MS16997-33	8-32	5/8”	---
NAS1352-08-12P	MS16997-34	8-32	3/4”	---
NAS1351-3-6P	MS16998-26	10-32	3/8”	---
NAS1351-3-8P	MS16998-27	10-32	1/2”	---
NAS1351-3-10P	MS16998-28	10-32	5/8”	---
NAS1351-3-12P	MS16998-29	10-32	3/4”	---
NAS1351-4-10P	MS16998-42	1/4-28	5/8”	---
NAS1351-4-12P	MS16998-43	1/4-28	3/4”	---
NAS1351-4-14P	MS16998-44	1/4-28	7/8”	---
NAS1351-4-16P	MS16998-45	1/4-28	1”	---

AN565 SET SCREWS

Description	Thread	Length	Part No.	Price
MS1029-10	4-40	3/16	AN565AC4H3	---
MS1965-31	8-32	3/8	AN565A8H6	---
MS51021-9	4-40	1/8	AN565DC4H2	---
MS51021-10	4-40	3/16	AN565DC4H3	---
MS51021-11	4-40	1/4	AN565DC4H4	---
MS51021-21	6-32	1/8	AN565DC6H2	---
MS51021-22	6-32	3/16	AN565DC6H3	---
MS51021-23	6-32	1/4	AN565DC6H4	---
MS51021-31	8-32	3/16	AN565DC8H3	---
MS51021-32	8-32	1/4	AN565DC8H4	---
MS51029-11	4-40	1/4	AN565AC4H4	---
MS51029-17	6-32	3/16	AN565AC6H3	---
MS51029-18	6-32	1/4	AN565AC6H4	---
MS51029-27	8-32	1/4	AN565AC8H4	---
MS51029-28	8-32	5/16	AN565AC8H5	---
MS51029-29	8-32	3/8	AN565AC8H6	---
MS51963-9	4-40	1/8	AN565D4H2	---
MS51963-10	4-40	3/16	AN565D4H3	---
MS51963-11	4-40	1/4	AN565D4H4	---

Description	Thread	Length	Part No.	Price
MS51963-20	6-32	1/8	AN565D6H2	---
MS51963-21	6-32	3-16	AN565D6H3	---
MS51963-22	6-32	1/4	AN565D6H4	---
MS51963-34	8-32	3/16	AN565D8H3	---
MS51963-35	8-32	1/4	AN565D8H4	---
MS51963-36	8-32	5/16	AN565D8H5	---
MS51963-37	8-32	3/8	AN565D8H6	---
MS51964-49	10-32	1/4	AN565D1032H4	---
MS51964-50	10-32	5/16	AN565D1032H5	---
MS51964-51	10-32	3/8	AN565D1032H6	---
MS51965-17	6-32	1/8	AN565A6H2	---
MS51965-19	6-32	1/4	AN565A6H4	---
MS51965-20	6-32	5/16	AN565A6H5	---
MS51965-21	6-32	3/8	AN565A6H6	---
MS51965-28	8-32	3/16	AN565A8H3	---
MS51965-29	8-32	1/4	AN565A8H4	---
MS51965-30	8-32	5/16	AN565A8H5	---
MS51965-18	6-32	3/16	AN565A6H3	---

NAS333 AND NAS334 SCREWS

• Material - Alloy Steel (8740) • Heat Treat - 160,000 - 180,000 PSI
• Finish - Cadmium Per QQ-P-416 Type II

Thread	Grip	Length	Part No.	Price
10-32	0.125	0.531	NAS333CPA4	---
10-32	0.188	0.594	NAS333CPA4-5	---
10-32	0.250	0.656	NAS333CPA5	---
10-32	0.312	0.719	NAS333CPA5-5	---
10-32	0.375	0.781	NAS333CPA6	---
10-32	0.500	0.906	NAS333CPA7	---
10-32	0.625	1.031	NAS333CPA10	---
1/4-28	0.188	0.657	NAS334CPA5	---
1/4-28	0.312	0.781	NAS334CPA6	---
1/4-28	0.438	0.907	NAS334CPA7	---
1/4-28	0.562	1.031	NAS334CPA10	---

NAS1580 SCREWS

• Offset Cruciform 100 Deg Flush Head • Material - Alloy Steel (8740) or Cres. (A-286) • Heat Treat - 160,000 - 180,000 or PSI 160,000 - 190,000 PSI • Finish - Cadmium Per AmsQQ-P-416 TYPE II or Passivate Per Ams 2700 • Thread: 10-32

Dash No.	Heat Treat	Finish	Grip	Length	Part No.	Price
Alloy Steel (8740)						
A3T2	160,000 - 180,000 PSI	Cadmium Per Ams QQ-P-416 TYPE II	0.125	0.487	NAS1580A3T2	---
A3T3			0.187	0.549	NAS1580A3T3	---
A3T4			0.250	0.613	NAS1580A3T4	---
A3T5			0.312	0.675	NAS1580A3T5	---
Cres. (A-286)						
C3T3	160,000 - 190,000 PSI	Passivate Per Ams 2700	0.187	0.549	NAS1580C3T3	---
C3T4			0.250	0.613	NAS1580C3T4	---

NAS1581 SCREWS

• Offset Cruciform 100 Deg Flush Head • Material - Alloy Steel (8740) or Cres. (A-286) • Heat Treat - 160,000 - 180,000 PSI or 160,000 - 190,000 PSI • Finish - Cadmium Per AmsQQ-P-416 TYPE II or Passivate Per Ams2700 • Thread: 10-32

Dash No.	Heat Treat	Finish	Grip	Length	Part No.	Price
Alloy Steel (8740)						
F3T2 Plain Cruciform	160,000 - 180,000 PSI	Cadmium Per Ams QQ-P-416 TYPE II	0.125	0.487	NAS1581F3T2	---
F3T3 Plain Cruciform			0.187	0.549	NAS1581F3T3	---
F3T4 Plain Cruciform			0.250	0.613	NAS1581F3T4	---
F3T5 Plain Cruciform			0.312	0.675	NAS1581F3T5	---
F3T8 Plain Cruciform			0.500	0.863	NAS1581F3T8	---
F3R2 Ribbed Cruciform			0.125	0.487	NAS1581F3R2	---
F3R3 Ribbed Cruciform			0.187	0.549	NAS1581F3R3	---
F3R4 Ribbed Cruciform			0.250	0.613	NAS1581F3R4	---
Cres. (A-286)						
C3T2	160,000 - 190,000 PSI	Passivate Per Ams 2700	0.125	0.487	NAS1581C3T2	---
C3T3			0.187	0.549	NAS1581C3T3	---
C3T4			0.250	0.613	NAS1581C3T4	---

NAS1802 PHILLIPS HEX HEAD SCREWS

• Screw, Phillips Hex Head • Material - A-286 Corrosion Resisting Steel
• Finish - Passivate Per QQ-P-35

NAS1802 Dash No.	Thread Size	Length	Part No.	Price
06-5	6-32	0.312	NAS1802-06-5	---
06-6	6-32	0.375	NAS1802-06-6	---
06-7	6-32	0.438	NAS1802-06-7	---
06-8	6-32	0.500	NAS1802-06-8	---
06-9	6-32	0.562	NAS1802-06-9	---
08-5	8-32	0.312	NAS1802-08-5	---
08-6	8-32	0.375	NAS1802-08-6	---
08-7	8-32	0.438	NAS1802-08-7	---
08-8	8-32	0.500	NAS1802-08-8	---
08-9	8-32	0.562	NAS1802-08-9	---
08-10	8-32	0.625	NAS1802-08-10	---
08-11	8-32	0.688	NAS1802-08-11	---
08-12	8-32	0.750	NAS1802-08-12	---
08-16	8-32	1.000	NAS1802-08-16	---
3-5	10-32	0.312	NAS1802-3-5	---
3-6	10-32	0.375	NAS1802-3-6	---
3-7	10-32	0.438	NAS1802-3-7	---
3-8	10-32	0.500	NAS1802-3-8	---
3-9	10-32	0.562	NAS1802-3-9	---
3-10	10-32	0.312	NAS1802-3-10	---
3-11	10-32	0.688	NAS1802-3-11	---
3-12	10-32	0.750	NAS1802-3-12	---
3-13	10-32	0.812	NAS1802-3-13	---
3-14	10-32	0.875	NAS1802-3-14	---
3-15	10-32	--	NAS1802-3-15	---
3-16	10-32	1.00	NAS1802-3-16	---

NAS4403 SCREWS

• Tri-Slot 100 Deg Flat Head, Close Tolerance • Material - Alloy Steel (8740) • Heat Treat - 160,000 - 180,000 • Finish - Cadmium Per AmsQQ-P-416 TYPE II • Thread: 10-32

NAS4403 Dash No.	Grip	Length	Part No.	Price
-2	0.125	0.448	NAS4403-2	---
-3	0.187	0.511	NAS4403-3	---
-4	0.250	0.573	NAS4403-4	---
-5	0.312	0.635	NAS4403-5	---
-6	0.374	0.698	NAS4403-6	---

NAS7403 SCREWS

• Phillips 100 Deg Flush Head, Close Tolerance, Short Thread • Material - Alloy Steel (8740) • Heat Treat - 160,000 - 180,000 • Finish - Cadmium Per AmsQQ-P-416 TYPE II • Thread: 10-32

NAS7403 Dash No.	Grip	Length	Part No.	Price
-2	0.125	0.448	NAS7403-2	---
-3	0.187	0.511	NAS7403-3	---
-4	0.250	0.573	NAS7403-4	---
-5	0.312	0.635	NAS7403-5	---
-6	0.374	0.698	NAS7403-6	---
-7	0.438	0.761	NAS7403-7	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

NAS8603 SCREWS

• Ribbed Cruciform 100 Deg Reduced Flat Head, Close Tolerance, Short Thread • Material - Alloy Steel (8740) • Heat Treat - 160,000 - 180,000 • Finish - Cadmium Per AmsQQ-P-416 TYPE II • Thread: 10-32

Dash No.	Grip	Length	Part No.	Price
-1	0.062	0.385	NAS8603-1	---
-2	0.125	0.448	NAS8603-2	---
-3	0.187	0.511	NAS8603-3	---
-4	0.250	0.573	NAS8603-4	---

NAS8703 SCREWS

• Ribbed Cruciform 100 Deg Reduced Flat Head, Close Tolerance, Short Thread • Material - Cres. (A-286) • Heat Treat - 160,000 - 190,000 PSI • Finish - Cadmium Per AmsQQ-P-416 TYPE II or Passivate Per Ams 2700 • Thread: 10-32

Dash No.	Finish	Grip	Length	Part No.	Price
-4	Cadmium Per Ams QQ-P-416 TYPE II	0.250	0.573	NAS8703-4	---
-U2	Passivate Per Ams 2700	0.125	0.448	NAS8703U2	---
-U3	Passivate Per Ams 2700	0.187	0.511	NAS8703U3	---
-U4	Passivate Per Ams 2700	0.250	0.573	NAS8703U4	---
-U5	Passivate Per Ams 2700	0.312	0.635	NAS8703U5	---

NIELSEN TRANSFER SCREWS

Size	Part No.	Price
10-24	04-03857	---
10-32	04-03858	---
1/4-20	04-03859	---
1/4-28	04-03860	---
5/16-18	04-03861	---
5/16-24	04-03862	---
3/8-16	04-03863	---
3/8-24	04-03864	---

Size	Part No.	Price
7/16-14	04-03865	---
7/16-20	04-03866	---
1/2-13	04-03867	---
1/2-20	04-03868	---
5/8-11	04-03869	---
5/8-18	04-03870	---
3/4-10	04-03871	---
3/4-16	04-03872	---

NIELSEN TRANSFER SCREW SETS

Nielsen Transfer Screws are the original screws that Alexander started manufacturing in 1937. The design and functionality has held true to it form since the inception because it is reliable, durable and affordable. Throw a set of these transfer screws in your toolbox today and you'll immediately see the benefits of having a precision Alexander tool.

Description	Includes	Part No.	Price
#2 Coarse Screw Set	5/16"-18, 3/8"-16, 1/2"-13 (4 of each size)	04-03851	---
#3 Coarse Screw Set	7/16"-14, 1/2"-13, 5/8"-11 (4 of each size)	04-03853	---
#3 Fine Screw Set	7/16"-20, 1/2"-13, 5/8"-18 (4 of each size)	04-03854	---
#4 Coarse Screw Set	1/2"-13, 5/8"-11, 3/4"-10 (4 of each size)	04-03855	---
#4 Fine Screw Set	1/2"-20, 5/8"-18, 3/4"-16 (4 of each size)	04-03856	---

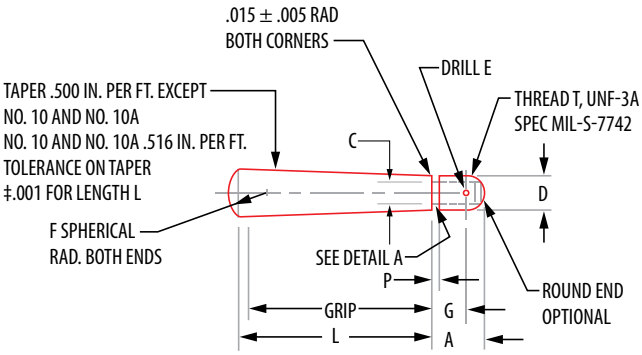
NAS4703 SCREWS

• Tri-Slot 100 Deg Flat Head, Close Tolerance • Material - Alloy Steel (8740) • Heat Treat - 160,000 - 180,000 • Finish - Cadmium Per AmsQQ-P-416 TYPE II • Thread: 10-32

NAS4703 Dash No.	Grip	Length	Part No.	Price
-2	0.125	0.448	NAS4703-2	---
-3	0.187	0.511	NAS4703-3	---
-4	0.250	0.573	NAS4703-4	---
-5	0.312	0.635	NAS4403-5	---

EXTERNAL SNAP RINGS

External Snap Ring. MS16624 and MS16628.
P/N MS16624-1037 ..... ---
P/N MS16628-4078 ..... ---



AN386 TAPER PINS

Manufactured from alloy steel, minimum tensile strength 125,000 PSI. Cadmium plated per spec. QQ-P-416, Type I, Class 3. Taper: 0.500"/ft. Use with AN975 taper pin washer, AN320 shear castle nut and cotter pin or with AN364 elastic stop nut. When installed, the small end of the tapered shank should protrude no more than 1/16" above the surface of the assembly. The first dash number is the Brown & Sharpe taper pin reamer number and the second dash number is the grip length in eighths of an inch. For undrilled threaded shank add the letter "A" after second dash number.

First Dash No.	1	2	3	4	5	6	7	8	9	10	10A
Thread T	10-32	10-32	1/4-28	5/16-24	3/8-24	7/16-20	1/2-20	9/16-18	3/4-16	7/8-14	7/8-14
A	7/16	7/16	29/64	33/64	35/64	35/64	19/32	21/32	47/64	51/64	51/64
C±.005	.141	.141	.196	.250	.313	.360	.422	.482	.660	.773	.773
D±.002	.205	.255	.317	.355	.455	.505	.605	.755	.905	1.050	1.153
E +.010, -.000	No.50 (.070)	No.50 (.070)	No.48 (.076)	No.48 (.076)	No.36 (.106)	No.36 (.106)	No.36 (.106)	No. 28 (.141)	No.28 (.141)	No.28 (.141)	No.28 (.141)
F	1/2	1/2	1/2	1/2	1/2	3/4	3/4	1	1	1-1/4	1-1/4
G	5/16	5/16	21/64	21/64	23/64	23/64	13/62	15/32	35/64	39/64	39/64
P	3/64	3/64	3/64	1/16	1/16	1/16	1/16	5/64	3/32	3/32	3/32

AN386-1-6 ..... ---
AN386-1-6A ..... ---
AN386-1-7 ..... ---
AN386-1-7A ..... ---
AN386-1-8 ..... ---
AN386-1-9 ..... ---
AN386-1-9A ..... ---
AN386-1-10A ..... ---
AN386-1-11 ..... ---
AN386-2-8 ..... ---
AN386-2-9A ..... ---
AN386-2-10 ..... ---
AN386-2-12 ..... ---
AN386-2-13 ..... ---
AN386-2-14 ..... ---
AN386-3-12 ..... ---
AN386-3-12A ..... ---
AN386-3-14 ..... ---
AN386-4-13 ..... ---

AN960 FLAT WASHERS

AN960 flat washers are used under hex nuts to provide a smooth bearing surface, as shims to obtain the correct grip length for a bolt and nut assembly, and to adjust the position of AN310 and AN320 castle nuts with respect to drilled cotter pin holes in bolts and clevis pins. Available in cadmium plated steel or anodized aluminum, and in regular and light thickness. Add the letter "L" to dash number to indicate light series. For anodized aluminum washers, add the letters "PD" after AN number.

Examples: AN960-416L is a light series cadmium plated steel washer for 1/4" dia. bolt. AN960PD-10 is an anodized aluminum washer for a 3/16" dia. bolt. AN960PD-10L is a light series anodized aluminum washer for a 3/16" dia. bolt.

NSWC FLAT WASHER KIT - Contains: • Flat AN960-916 (12 qty)• Flat AN960-616L (4 qty) • Flat AN960-416 (40 qty) • Flat AN960-716L (8 qty) • Flat AN960-616 (40 qty) • Flat AN960-816 (32 qty) • Flat AN960-816L (32 qty) .....P/N 04-01728 ..... ---

Dash #	Bolt or Screw Size	O.D. (In.)	I.D. (In.)	Thickness steel		Thickness Aluminum		Price	
				Light	Regular	Light	Regular	Steel each	Alum. each
-3	No. 3	.250	.105	.016	.032	.016	.032	---	----
-4	No. 4	.312	.125	.016	.032	.016	.032	---	---
-6	No. 6	.375	.149	.016	.032	.016	.032	---	---
-8	No. 8	.375	.174	.016	.032	.016	.032	---	---
-10	No. 10	.438	.203	.032	.063	.032	.063	---	---
-416	1/4"	.500	.265	.032	.063	.016	.063	---	---
-516	5/16"	.562	.328	.032	.063	.016	.063	---	---
-616	3/8"	.625	.390	.032	.063	.016	.063	---	---
-716	7/16"	.750	.453	.032	.063	.016	.063	---	---
-816	1/2"	.875	.515	.032	.063	.016	.063	---	---
-916	9/16"	1.062	.578	.032	.063	.016	.063	---	----
-1016	5/8"	1.188	.640	.032	.063	----	----	---	----
-1216	3/4"	1.312	.765	.032	.090	----	----	---	----

AN960C STAINLESS WASHERS

Size	Regular		Light	
	Part No.	Price Ea.	Part No.	Price Ea.
4	AN960C4	---	AN960C4L	---
5	-----	---	-----	---
6	AN960C6	---	AN960C6L	---
8	AN960C8	---	AN960C8L	---
3/16	AN960C10	---	AN960C10L	---
1/4	AN960C416	---	AN960C416L	---
5/16	AN960C516	---	AN960C516L	---
3/8	AN960C616	---	AN960C616L	---
7/16	AN960C716	---	AN960C716L	---
1/2	AN960C816	---	AN960C816L	---
9/16	AN960C916	---	AN960C916L	---
5/8	AN960C1016	---	AN960C1016L	---
3/4	AN960C1216	---	-----	----

AN970 FLAT WASHERS

Manufactured of carbon steel, cadmium plated per QQ-P-416C, Type II, Class 2. They provide a greater bearing area than AN960 washers. Used on wooden structures under both the head of the bolt & the nut to prevent crushing the surface. Part numbers with a "C" are stainless steel.

Dash No.	Bolt Size	O.D. (In.)	I.D. (In.)	Thk (In.)	Price Each	Price per 100
-3	3/16"	.875	.203	.063	---	---
-4	1/4"	1.125	.265	.063	---	---
-C4	1/4"	1.125	.265	.063	---	---
-5	5/16"	1.375	.328	.063	---	---
-C5	5/16"	1.375	.328	.063	---	---
-6	3/8"	1.625	.390	.063	---	---
-7	7/16"	1.812	.453	.109	---	---
-8	1/2"	2.000	.515	.109	---	---
-9	9/16	2.188	.578	.125	---	---
-10	5/8"	2.375	.640	.125	---	---

MS20002C5 COUNTER SUNK WASHER

MS20002C5 Counter Sunk Washer to fit size 5/16".
Cadmium plated alloy steel. .....P/N 04-03974 ..... ---

NAS620 FLAT WASHERS

MIL-SPEC designations for flat washers, NAS620. Covered by military procurement specification FF-W-92 which has, as minimum requirements.
1.Chemical analysis
2.Process certification on protective finish
3. Workmanship
4. Magnetic permeability (stainless steel only)

Description	Part No.	Price
NAS620-4	NAS620-4	---
NAS620-6	NAS620-6	---
NAS620-6L	NAS620-6L	---
NAS620-8	NAS620-8	---

Description	Part No.	Price
NAS620-8L	NAS620-8L	---
NAS620-10	NAS620-10	---
NAS620-10L	04-00854	---

MS15795 FLAT WASHERS

Material - 300 Series Stainless Steel
Finish - Passivate Per Astm A380

MS15795 Dash No.	O.D. (in.)	I.D. (in.)	Thickness	Price
MS15795-802	0.094	2.50	0.020	---
MS15795-803	0.125	0.250	0.022	---
MS15795-805	0.156	0.312	0.035	---
MS15795-806	0.156	0.375	0.049	---
MS15795-807	0.188	0.375	0.049	---
MS15795-808	0.219	0.438	0.049	---

NAS1515H FLAT WASHERS

Made out of Plastic Polyhexamethylene Adipamide Overall.

OEM P/N	Size No.	Thickness	Part Number	Price
NAS1515H04L	#4	1/32	04-04014	---
NAS1515H06L	#6	1/32	04-04015	---
NAS1515H08L	#8	1/32	NAS1515H08L	---
NAS1515H08	#8	1/16	04-04016	---
NAS1515H3	#10	1/16	04-04018	---
NAS1515H4	1/4	1/16	04-04019	---

NAS43HT4 SPACERS

NAS43HT4 Spacers.
Material - 4130 Steel Alloy

Manufacturer	Length	Part No.	Price
NAS43HT4-9	0.1406 = 9/64	06-02534	---
NAS43HT4-16	0.250 = 1/4	06-02529	---
NAS43HT4-22	0.34 = 11/32	06-02530	---
NAS43HT4-28	0.4375 = 7/16	06-02531	---
NAS43HT4-43	0.6718 = 43/64	06-02532	---
NAS43HT4-46	0.71875 = 23/32	06-02533	---

NORD-LOCK WEDGE LOCKING WASHERS

Nord-Lock washers secure bolted joints with tension instead of friction. It is a high quality product with documented success in many industries worldwide.

Bolt Size	Description	Part No.	Price
#10	Carbon Steel Washer NL 1/4	04-03873	---
1/4"	Carbon Steel Washer NL 1/4	04-03874	---
5/16"	Carbon Steel Washer NL8	04-03875	---
5/16"	Carbon Steel Washer NL8 sp	04-03876	---
3/8"	Carbon Steel Washer NL 3/8	04-03877	---
7/16"	Carbon Steel Washer NL11	04-03878	---
--	Carbon Steel Washer NL12 sp	04-03879	---
1/2"	Carbon Steel Washer NL 1/2	04-03880	---
1/2"	Carbon Steel Washer NL 1/2 sp	04-03881	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MS35338 LOCK WASHERS

MS35338 split, helical lock washers are made of carbon steel, cadmium plated per QQ-P-416A, Type II, Class 3. They replace AN935 medium-weight washers. Formerly AN935.

Cad. Plated			Stainless	
Size	Part No.	Price	Part No.	Price
6	MS35338-41	---	MS35338-136	---
8	MS35338-42	---	MS35338-137	---
10	MS35338-43	---	MS35338-138	---
1/4	MS35338-44	---	MS35338-139	---
5/16	MS35338-45	---	MS35338-140	---
3/8	MS35338-46	---	MS35338-141	---
7/16	MS35338-47	---	MS35338-142	---
1/2	MS35338-48	---	MS35338-143	---

MS35333 & MS35335 LOCK WASHERS

Provide efficient locking action by spring tension and biting action of tapered twisted teeth. Made of 1050 spring steel and cadmium plated per specification QQ-P-416A, Type II, Class 3. Available with internal teeth (Type A) or external teeth (Type B).

Type	Size	Cad Plated Part No.	Price Cad. Plated	Stainless Part No.	Price Stainless
Type A	6	MS35333-37	---	MS35333-71	---
Type A	8	MS35333-38	---	MS35333-72	---
Type A	10	MS35333-39	---	MS35333-73	---
Type A	1/4	MS35333-40	---	MS35333-74	---
Type A	5/16	MS35333-41	---	MS35333-75	---
Type A	3/8	MS35333-42	---	MS35333-76	---
Type A	7/16	MS35333-43	---	MS35333-77	---
Type A	1/2	MS35333-44	---	MS35333-78	---
Type A	5/8	MS35333-46	---	--	--
Type B	6	MS35335-30	---	MS35335-58	---
Type B	8	MS35335-31	---	MS35335-59	---
Type B	10	MS35335-32	---	MS35335-60	---
Type B	1/4	MS35335-33	---	MS35335-61	---
Type B	5/16	MS35335-34	---	MS35335-62	---
Type B	3/8	MS35335-35	---	--	--
Type B	1/2	MS35335-37	---	--	--

TOOTH LOCKWASHER

MIL-SPEC designations for tooth lockwashers include, but are not limited to MS35335. These are covered by military procurement specification FF-W-100

Nominal Screw Size	Inside Diameter		Outside Diameter		Material Thickness		MS 35335 Steel	Part No.	Price
	Min	Max	Min	Max	Min	Max	Plated		
9/16	0.576	0.596	0.960	0.985	0.037	0.045	-38	04-00099	---
3/4	0.768	0.795	1.220	1.260	0.047	0.055	-40	04-00101	---
7/8	0.897	0.927	1.380	1.410	0.052	0.060	-41	04-00103	---

NAS549 PHENOLIC WASHERS

NAS549-10 Phenolic insulating washers for #10 screws. Size: 13/64" I.D. x 7/16" O.D. x 1/16 thick..... **--- Ea.**

G-8 TINNERMAN WASHERS

A No. 8 'Tinnerman' style washer with the same O.D. as a No. 10 (0.75). Great for those oversize holes in fairings. Unlike the No. 10 washer with a No. 8 screw, these washers will tighten down on the fairing (not bottom out on the cone) thus providing the proper "clamp up" between the fastener and the fairing. The G-8 washers are Made in the USA from 304 (1/2 hard) Stainless Steel and are machine tumbled for a shiny finish.

P/N 04-01989 ..... ---

TINNERMAN COUNTERSUNK WASHERS

For use with 100° flat-head screws such as MS24693 and MS24694 machine screws and NAS548 sheet metal screws to provide reinforced, low-profile attachments. Made of spring steel, Zinc Plated.

Part No.	Screw Size	I.D. In.	O.D. In.	Price Each	Price per 100
A3236-012-193	#6	.140	.50	---	---
A3135-017-193	#8	.171	.56	---	---
A3235-028-193	#10	.196	.75	---	---

NYLON WASHERS

Part No.	Thread Size	Price Ea.
04-00219	#4	---
04-00216	#6	---
04-00217	#8	---
04-00218	#10	---

Less 20% Discount on 100 per size

100° CSK STAINLESS WASHERS

Use with 100° flathead screws to provide reinforced, low-profile attachments.

Size	Dimensions	Part No.	Price
6	.500 OD x .012 T	04-00397	---
8	.562 OD x .017 T	04-00392	---
10	.750 OD x .020 T	04-00398	---

Less 20% Discount on 100 per size

AN975 TAPER PIN WASHERS

Taper pin washers are used with AN386 threaded taper pins. Manufactured of steel, cadmium plated per QQ-P-416, Type II, Class 2.

AN975 Dash #	Fits Taper Pin #	Price Ea.
-3	1, 2	---
-4	3	---
-5	4	---
-6	5	---

82° COUNTERSUNK WASHERS

Finishing washers are used in non-structural interior and upholstery applications. The parts covered by NAS390 & NAS391 are getting harder to procure and do not necessarily conform exactly to all of the dimensions stated on the specs. Commercial equivalents can be supplied and are suggested. These are non-critical washers that are readily available and cost effective.

Screw or Bolt Size	Countersink Washer Part No.	Price		Flush Washer Part No.	Price	
		Each	100		Each	100
#4	04-03898	---	---	NAS390B4P	--	--
#6	04-03899	---	---	04-03895	---	---
#8	04-03901	---	---	04-03896	---	---
#10	04-01946	---	---	04-03897	---	---

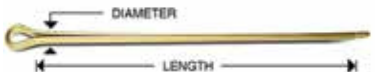
POLYMER SPINNER WASHERS

Propeller spinner washers are typically made from thin nylon. They are usually replaced every time the spinner is removed because the screw pressure against the spinner curvature causes the nylon washers to fail. Instead of nylon, these washers are machined from an extruded billet of a, very tough polymer material – the toughest we make – so they won't crack or extrude. The washers easily conform to the spinner's curved surface and will serve without replacement for a very long time. In fact, they may never need replacement! Fits a # 10 screw, with a diameter and thickness to suit the round head stainless **Screws Not Included Packaged In Bags Of 25.**

P/N 05-12883 ..... ---

HA

CLEVIS PINS - COTTER PINS



MS24665 COTTER PINS (FORMERLY AN380)

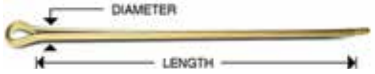
MS24665 cotter pins are stocked in cadmium plated steel (formerly AN380) and in passivated corrosion resisting steel (formerly AN381) in the priced sizes listed below. Other sizes available on special order. Write for quotation.

Assortment of 100 Cadmium Plated Cotter Pins
P/N 04-05050 .....---

CADMIUM PLATED			
Part No.	AN380 Dash No.	Dia. & Length	Price
MS24665-132	-2-2	1/16 X 1/2	---
MS24665-134	-2-3	1/16 X 3/4	---
MS24665-136	-2-4	1/16 X 1	---
MS24665-138	-2-5	1/16 X 1-1/4	---
MS24665-140	-2-6	1/16 X 1-1/2	---
MS24665-142	-2-7	1/16 X 1-3/4	---
MS24665-143	-2-8	1/16 X 2	---
MS24665-208	-	5/64 X 1/2	---
MS24665-281	-3-2	3/32 X 1/2	---
MS24665-283	-3-3	3/32 X 3/4	---
MS24665-285	-3-4	3/32 X 1	---
MS24665-287	-3-5	3/32 X 1-1/4	---
MS24665-289	-3-6	3/32 X 1-1/2	---
MS24665-292	-3-8	3/32 X 2	---
MS24665-349	-4-2	1/8 X 1/2	---
MS24665-351	-4-3	1/8 X 3/4	---
MS24665-353	-4-4	1/8 X 1	---
MS24665-355	-4-5	1/8 X 1-1/4	---
MS24665-357	-4-6	1/8 X 1-1/2	---
MS24665-359	-4-7	1/8 X 1 3/4	---
MS24665-360	-4-8	1/8 X 2	---
MS24665-362	-4-10	1/8 X 2-1/2	---
MS24665-426	-5-9	5/32 X 2	---
MS24665-498	-6-8	3/16 X 2	---
MS24665-500	-6-10	3/16 X 2 1/2	---

CORROSION RESISTANT STEEL			
Part No.	AN381 Dash No.	Dia. & Length	Price
MS24665-22	-1-8	1/32 X 1/2	---
MS24665-24	-1-12	1/32 X 3/4	---
MS24665-26	-1-16	1/32 X 1	---
MS24665-151	-2-8	1/16 X 1/2	---
MS24665-153	-2-12	1/16 X 3/4	---
MS24665-155	-2-16	1/16 X 1	---
MS24665-157	-2-20	1/16 X 1-1/4	---
MS24665-159	-2-24	1/16 X 1-1/2	---
MS24665-161	-2-28	1/16 X 1-3/4	---
MS24665-162	-2-32	1/16 X 2	---
MS24665-227	-25-8	5/64 X 1/2	---
MS24665-229	-25-12	5/64 X 3/4	---
MS24665-298	-3-8	3/32 X 1/2	---
MS24665-300	-3-12	3/32 X 3/4	---
MS24665-302	-3-16	3/32 X 1	---
MS24665-304	-3-20	3/32 X 1-1/4	---
MS24665-306	-3-24	3/32 X 1-1/2	---
MS24665-309	-3-32	3/32 X 2	---
MS24665-366	-4-8	1/8 X 1/2	---
MS24665-368	-4-12	1/8 X 3/4	---
MS24665-370	-4-16	1/8 X 1	---
MS24665-372	-4-20	1/8 X 1-1/4	---
MS24665-374	-4-24	1/8 X 1-1/2	---
MS24665-377	-4-32	1/8 X 2	---
MS24665-379	-4-40	1/8 X 2-1/2	---
MS24665-444	-5-32	5/32 X 2	---
MS24665-516	-6-32	3/16 X 2	---
MS24665-518	-6-40	3/16 X 2 1/2	---

Discount: 25% for quantities of 100 or more of the same Part No.



MS9245 SPLIT COTTER PINS

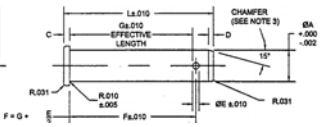
Material - Cres Gr. 321 Per Ams 7211
Heat Treat - 1200°F
Finish - Gray To Black Color From 1200°F Heating

MS9245 Dash No.	Dia. & Length	Part Number	Price
-21	1/16 x 1/4	MS9245-21	---
-22	1/16 x 5/16	MS9245-22	---
-23	1/16 x 3/8	MS9245-23	---
-24	1/16 x 7/16	MS9245-24	---
-25	1/16 x 1/2	MS9245-25	---
-27	1/16 x 5/8	MS9245-27	---
-28	1/16 x 3/4	MS9245-28	---
-43	3/32 x 9/16	MS9245-43	---
-44	3/32 x 5/8	MS9245-44	---
-45	3/32 x 3/4	MS9245-45	---

RING COTTERS

MB Spring Wire, Zinc Coated or Type 302 Stainless Steel.

Manufacturer	O.D. x Wire Diameter	Use on Diameter	Part No.	Price
3703	5/8 x .048	3/16 - 1/4	04-03448	---
3705	3/4 x .048	1/4 - 5/16	04-03449	---
3707	1 x .062	3/8 - 7/16	04-03450	---
3709	1-1/8 x .072	7/16 - 1/2	04-03451	---



CLEVIS PINS

Made of alloy steel per specification MIL-P-5673 and cadmium plated per QQ-P-416, Type II, Class 3. Provided with drilled hole for cotter pin. Used with clevis forks and in secondary controls which are not subjected to continuous operation. Order by AN number and dash number. Example: AN395-41 is a 5/16"dia. pin with an effective length of 1-9/32". Equivalent MS number is MS20392-4C41. **Less 20% in lots of 25 per size. Request quotation on unlisted sizes. Note: Clevis pin prices fluctuate with changes in cost/availability at suppliers.**

Dash No.	Effective Length (In.)	AN392 MS20392 -1C 1/8"	AN393 MS20392 - 2C 3/16"	AN394 MS20392 -3C 1/4"	AN395 MS20392 - 4C 5/16"	AN396 MS20392 -5C 3/8"
-7	7/32	---	---	--	--	--
-9	9/32	---	---	--	--	--
-11	11/32	---	---	---	---	--
-13	13/32	---	---	---	--	--
-15	15/32	---	---	---	---	--
-17	17/32	---	---	---	---	---
-19	19/32	---	---	---	---	---
-21	21/32	---	---	---	---	--
-23	23/32	---	---	---	---	---
-25	25/32	---	---	---	---	---
-27	27/32	---	---	---	---	--
-29	29/32	---	---	---	---	--
-31	31/32	---	---	---	---	--
-33	1-1/32	---	---	---	---	--
-35	1-3/32	---	---	---	---	---
-37	1-5/32	---	---	---	---	--
-39	1-7/32	---	---	---	---	--
-41	1-9/32	---	---	---	---	---
-43	1-11/32	---	---	---	---	--
-45	1-13/32	---	---	---	---	---
-47	1-15/32	---	---	---	---	---
-49	1-17/32	---	---	---	--	--
-51	1-19/32	--	---	---	---	--
-53	1-21/32	---	---	---	---	---
-55	1-23/32	---	---	---	--	---
-57	1-25/32	---	---	---	---	--
-59	1-27/32	---	---	---	--	---
-61	1-29/32	---	---	---	--	--
-63	1-31/32	---	---	---	---	---
-65	2-1/32	---	---	---	--	--
-67	2-3/32	---	---	---	--	---
-69	2-5/32	--	---	---	---	---
-71	2-7/32	--	---	--	--	--
-73	2-9/32	--	---	---	--	--
-75	2-11/32	--	--	---	--	CALL
-79	2-15/32	--	---	---	--	--
-81	2-17/32	--	---	---	--	---
-83	2-19/32	--	---	--	--	--
-85	2-21/32	--	---	---	---	--
-87	2-23/32	--	---	--	--	--
-89	2-25/32	--	---	--	---	--
-91	2-27/32	--	--	--	--	--
-93	2-29/32	--	---	--	--	--
-95	2-31/32	--	-	---	--	--
-97	3-1/32	--	- -	---	--	--
-99	3-3/32	--	- -	--	--	--
-101	3-5/32	--	- -	--	--	--

AN397-27 - 7/16".....P/N AN397-27 ..... ---

LOCK PINS

AN415-2 corrosion resistant steel wire cowl lock pins 1-15/16" long, .080" dia. wire.
P/N AN415-2 .....**--- Ea.** ..... **--- for 100**
Commercial steel cadmium plated wire lock pins 1-1/4" long, .062" dia. wire.
P/N 04-05100 .....**--- Ea.** ..... **--- for 100**

COWLING SAFETY PINS

Positive locking pins that can be readily used without aid of tools. Made of spring steel, cadmium plated, 1-1/16" long.
.051" Wire Dia. ..... .AN416-1.....**--- Ea.** ..... **.---/100**
.041" Wire Dia. ..... .AN416-2.....**--- Ea.** ..... **---/100**

TUBULAR PIN MS16562

MS16562-224.....P/N 04-01715 ..... ---
NASM16562-16.....P/N 05-11917 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CHERRY COMMERCIAL RIVETS

CHERRY AEROSPACE RIVETS - SELF-PLUGGING CHERRY RIVETS

100° COUNTERSUNK (CR9162)

The self-plugging Cherry Blind Rivet is a 2-piece assembly - a hollow rivet and an inner member or stem, drawn into or through the hollow rivet. Cherry CR162 & CR163 series rivets are now replaced by CR9162 & CR9163 series rivets which are less expensive but does require the use of a rivet gun that comes with the req. nosepiece.
Pulling Head (required) .....P/N 04-01515 ..... ---
G-29 Rivet Gun - Comes equipped with a 728A9-3 nosepiece to install 3/32" rivets and has a 728A9-104 nosepiece stored in the handle for installing 1/8" rivets.....P/N 12-00701 ..... ---

UNIVERSAL HEAD (CR 9163)

Part No.	Head Style	Nominal Dia.	Grip Range	Price		
				Each	100	1000
CR9162-4-2	Csk	1/8"	.063-.125	---	---	---
CR9162-4-4			.188-.250	---	---	---
CR9162-4-6			.313-.375	---	---	---
CR9162-4-8			.438-.500	---	---	---
CR9163-4-2	Univ.	1/8"	.063-.125	---	---	---
CR9163-4-4			.188-.250	---	---	---
CR9163-4-6			.313-.375	---	---	---
CR9163-5-2	Univ.	5/32"	.063-.125	---	---	---

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CHERRY N RIVETS

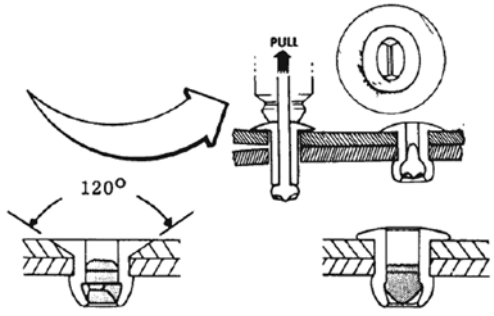
Break mandrel rivets Conform to MIL-R-24243 & IFI-114 Standards

LOW COST
Substantial savings in installed costs can be realized when Cherry N Rivets are substituted for spotwelds, screws or bolts.

FAST INSTALLATION
Quick and easy to use with hand or power riveters, Cherry N Rivets have endless fastening applications in manufacturing, maintenance.

UNIQUE FEATURES
Unusual mandrel design of Cherry N Rivets holds rivet and mandrel firmly together prior to installation and insures positive mandrel retention in the installed rivet.

NO MANDREL POP OUTS—
As the mandrel is drawn into the rivet, the end of the rivet sleeve closes in an elliptical configuration... locking the mandrel firmly in place!



FLUSH HEAD PROTRUDING HEAD

CHERRY N RIVET IDENTIFICATION CODE

First letter is rivet material:
A = 5052 Aluminum B = 5056 Aluminum C = Stainless
M = Monel S= Steel U = Copper
Second letter is mandrel material:
A = 7178 Aluminum S = Steel C = Stainless
Third letter is head style:
P = Protruding L = Large C = Flush
First number is rivet diameter in 32nds of an inch:
For example,—4 is 4/32nds or 1/8" diameter
Second number is rivet maximum grip length in 16ths of an inch:
For example,—6 is 6/16ths or 3/8" grip length

MINIMUM RIVET SHEAR AND TENSILE STRENGTH (IBS.)
CHERRY N RIVETS

Rivet Dia. Mand.	BS Series Alum Rivet Steel Mand.		MS Series Monel Rivet Steel Mand.		CC Series Stainless Rivet Stainless	
	Grade 19		Grade 40		Grade 51	
	Shear	Tens	Shear	Tens	Shear	Tens
3/32	125	175	200	300	230	280
1/8	200	325	350	525	450	600
5/32	325	450	600	900	750	1000
3/16	430	650	750	1100	1000	1300
1/4	750	1050	1450	2150	1700	2250

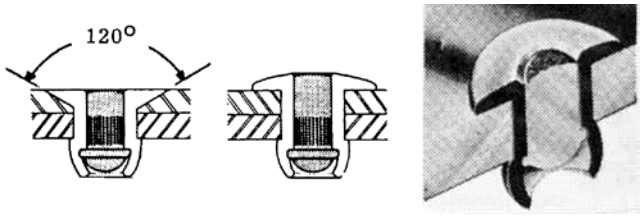
CHERRY Q RIVETS

Structural—Self-plugging rivets

HIGH SHEAR STRENGTH
Cherry Q Rivet mandrel plugs the entire length of the rivet sleeve, providing full shear strength values for structural or load-bearing applications.

SEALING CAPABILITY
Specially designed mandrel of the Q Rivet is engineered to effect a seal, upon installation which offers resistance to leakage.

VIBRATION RESISTANT



Rivet sleeve curls over end of mandrel to insure its positive retention.

FLUSH HEAD PROTRUDING HEAD

CHERRY Q RIVET IDENTIFICATION CODE

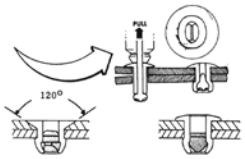
First letter is rivet material:
A = 5052 Aluminum B = 5056 Aluminum C = Stainless
M = Monel S= Steel
Second letter is mandrel material:
A = 7178 Aluminum S = Steel C = Stainless
Third letter is head style:
P = Protruding L = Large C = Flush
Fourth letter is type of rivet:
Q = Cherry Q Rivet, structural, self-plugging
First number is rivet diameter in 32nds of an inch:
For example,—6 is 6/32nds or 3/16" diameter
Second number is rivet maximum grip length in 1/16 of an inch:
For example,—8 is 8/16ths or 1/2" grip length

MINIMUM RIVET SHEAR AND TENSILE STRENGTH (IBS.)
CHERRY Q RIVETS

Rivet Dia. Mand.	BS Series Alum Rivet Steel Mand.		MS Series Monel Rivet Steel Mand.		CC Series Stainless Rivet Stainless	
	Grade 19		Grade 40		Grade 51	
	Shear	Tens	Shear	Tens	Shear	Tens
5/32	525	450	950	900	1050	1000
3/16	750	650	1450	1100	1650	1300
1/4	1250	1050	2350	2150	2450	2250

NOTE: SUBJECT TO PRICE AND AVAILABILITY OF CHERRY BRAND RIVETS. EQUIVALANT RIVETS MAY BE FURNISHED.

CHERRY "POP" RIVETS



For conversion of the most frequently used "Pop" rivets to the corresponding CHERRY numbers, see the following table. **Note: SUBJECT TO PRICE AND AVAILABILITY OF CHERRY BRAND RIVETS. EQUIVALENT RIVETS MAY BE FURNISHED.**

Attention: Avdel has changed the mandrel design for some of their Cherry "N" Rivets. The change has not affected the strength of the rivet.

CHERRY COMMERCIAL RIVET PRICE TABLE

G

Grip is total of material thickness

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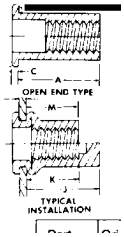
CHERRY – Commercial rivets with maximum grip length greater than the material thickness may be substituted for a rivet of the required grip length.

Cherry Rivet		USM "POP" Rivet Equiv.*	Rivet Dia.	Drill Size	Cherry Max Rivet Grip Length	Price**					
Type	Number					Price Ea. 1-99	Price Per 100 10% Discount	Price for 600 12% Discount	Price for 1000 15% Discount	Price for 3000 18% Discount	Price for 10,000 20% Discount
"N"	BSP-41	AD41BS	1/8"	30	Up to .062	---	---	---	---	---	---
	BSPS-42				.063-.125	---	---	---	---	---	---
	BSPS-43				.126-.187	---	---	---	---	---	---
	BSPS-44				.188-.250	---	---	---	---	---	---
	BSP-46				.313-.375	---	---	---	---	---	---
	BSP-48				.438-.500	---	---	---	---	---	---
"N"	BSCS-34	BSC-34	3/32"		.126-.250	---	---	---	---	---	---
	BSC-43	AK43BS	1/8"	30	.126-.187	---	---	---	---	---	---
	BSC-44	44BS			.188-250	---	---	---	---	---	---
	BSC-46	A46SC	1/8"		.313-.375	---	---	---	---	---	---
"N"	MSP-32	MD319BS	3/32"	41	.020-.125	---	---	---	---	---	---
	-42	424BS	1/8"		.063-.125	---	---	---	---	---	---
	-43	429BS			.126-.187	---	---	---	---	---	---
	-44	435BS			.188-.250	---	---	---	---	---	---
	-45	440BS			.251-.312	---	---	---	---	---	---
	-54	530BS	5/32"	20	.126-.250	---	---	---	---	---	---
"N"	CCC-32	MK319BS	3/32"	41	.020-.125	---	---	---	---	---	---
	-42	424BS	1/8"	30	.062-.125	---	---	---	---	---	---
	-44	444BS	1/8"	30	.188-.250	---	---	---	---	---	---
"N"	CCP-32		3/32"		.020-.125	---	---	---	---	---	---
	CCP-42	SSD42SSDS	1/8"	30	.062-.125	---	---	---	---	---	---
	CCP-43		1/8"	30	.126-.187	---	---	---	---	---	---
	-44				.188-250	---	---	---	---	---	---
	-46			30	.313-.375	---	---	---	---	---	---
"N"	SSP-42		1/8"	30	.062-.125	---	---	---	---	---	---
"N"	-44				.188-.250	---	---	---	---	---	---
	-45		1/8"		.251-.312	---	---	---	---	---	---
	04-01952	CSPS4-4	1/8"	30	.188-.250	---	---	---	---	---	---
	04-01953	CSPS4-8	1/8"	30	.438-.500	---	---	---	---	---	---
"N"	SSC-43		1/8"		.126-.187	---	---	---	---	---	---
	SSC-44	S44SC	1/8"		.188-.250	---	---	---	---	---	---
"Q"	BSPQ-41	AD41H	1/8"	30	Up to .062	---	---	---	---	---	---
	-42	AD42H		30	.062-.125	---	---	---	---	---	---
	-43	AD43H			.126-.187	---	---	---	---	---	---
	-44	AD44H			.188-.250	---	---	---	---	---	---
	-46	AD46H			.313-.375	---	---	---	---	---	---
"Q"	AAPQ-42	AD43H	1/8"	30	.125	---	---	---	---	---	---
	-44	AD44H		30	.250	---	---	---	---	---	---
	CCPQ-43	CCPQ-43	1/8"	30	.337	---	---	---	---	---	---
	CCPQ-44	CCPQ-44	1/8"	30	.400	---	---	---	---	---	---

***All USM "Pop" rivets are 1/64" larger than nominal diameter. Presented here for cross reference purposes only. **Quotations on larger quantities.**

CLOSED END POP RIVETS

Model	Head	Size	Grip	Part No.	Price
AD42H	Dome	1/8”	.063-.125	04-02334	---
AD43H	Dome	1/8”	.125-.187	04-02335	---
AK42H	CSK	1/8”	.063-.125	04-02336	---
AK43H	CSK	1/8”	.125-.187	04-02337	---



RIVET NUTS (OPEN END)

The Rivet nut is a one-piece internally threaded and counterbored tubular aluminum rivet that can be pulled up or headed while working entirely from one side, forming a bulge or head on the blind side. This upset is large enough to resist being pulled through metal or plastic even under conditions of eccentric load. It overcomes the difficulty of installing brackets, handles or other attachments to tubular pieces.

FLAT HEAD

Part Number	Type	Grip Range	Length	Thread	Price Each
NAS1329A06K75	Keyed	.010-.075	.438	6-32	---
NAS1329A06-75	Keyless	.010-.075	.438	6-32	---
NAS1329A06K120	Keyed	.075-.120	.500	6-32	---
NAS1329A06-120	Keyless	.075-.120	.500	6-32	---
NAS1329A08K75	Keyed	.010-.075	.438	8-32	---
NAS1329A08-75	Keyless	.010-.075	.438	8-32	---
NAS1329A08K120	Keyless	.075-.120	.500	8-32	---
NAS1329A08-120	Keyless	.075-.120	.500	8-32	---
NAS1329A3K80	Keyed	.010-.075	.438	10-32	---
NAS1329A3-80	Keyless	.010-.075	.438	10-32	---
AEA10K140	Keyed	.075-.140	.500	10-32	---
AEA10-140	Keyless	.075-.140	.500	10-32	---

COUNTERSUNK HEAD

Part Number	Type	Grip Range	Length	Thread	Price Each
NAS1330A06K106	Keyed	.065-.106	.500	6-32	---
NAS1330A06-106	Keyless	.065-.106	.500	6-32	---
NAS1330A08K106	Keyed	.065-.106	.500	8-32	---
NAS1330A08-106	Keyless	.065-.106	.500	8-32	---

AVEX NON-STRUCTURAL BLIND RIVETS

Avex non- structural blind rivets, with aluminum body and steel stem, are similar to the Cherry BSP and BSC commercial rivets. We stock the standard dome head, 120° countersunk head and the low-profile “Lo-Pro” dome head rivets in diameters up to 3/16”.

Head Style	Part No.	Dia.	Grip Range	Price		
				Each	100	1000
Dome	1601-0410	1/8”	To .187	---	---	---
	1601-0414	1/8”	To .312	---	---	---
	1601-0613	3/16”	To .250	---	---	---
	1601-0619	3/16”	To .437	---	---	---
	04-01949	5/32”	.046-.250	---	---	---
Counter-sunk (120°)	1604-0412	1/8”	To .250	---	---	---
	1604-0514	5/32”	To .312	---	---	---
	1604-0615	3/16”	To .312	---	---	---
Lo-Pro	1661-0613	3/16”	To .250	---	---	---
	1661-0621	3/16”	To .500	---	---	---

PULL RIVETS

Blind open end pull rivets are available in a variety of sizes, types, and materials to fit most any application. Simple three step riveting make quick work of most any fastening job. These open end rivets resemble conventional tubular rivets when set, but retain the mandrel within the rivet body for added strength.
Note: All rivets listed are round head rivets.

Code No.	Type	Dia.	Head	Range	Part No.	Price
AD42-A	Aluminum	1/8	1/4	1/16 to 1/8	15-05793	---
AD43-A	Aluminum	1/8	1/4	1/8 to 3/8	15-05794	---
AD48-A	Aluminum	1/8	1/4	3/8 to 1/2	15-05795	---
ADL44-A	Aluminum	1/8	3/8	3/16 to 1/4	15-05797	---
AD62-A	Aluminum	3/16	3/8	1/16 to 1/8	15-05796	---
AD66-A	Aluminum	3/16	3/8	1/4 to 3/8	15-05807	---
AD68-A	Aluminum	3/16	3/8	3/8 to 1/2	15-05808	---
ADL612-A	Aluminum	3/16	5/8	5/8 to 3/4	15-05809	---
ADL68-A	Aluminum	3/16	5/8	3/8 to 1/2	15-05810	---
SD42	Steel	1/8	1/4	1/16 to 1/8	15-05798	---
SD43	Steel	1/8	1/4	1/8 to 3/16	15-05799	---
SD48	Steel	1/8	1/4	3/8 to 1/2	15-05800	---
SDL44	Steel	1/8	3/8	3/16 to 1/4	15-05801	---
SD62	Steel	3/16	3/8	1/16 to 1/8	15-05811	---
SD66	Steel	3/16	3/8	1/4 to 3/8	15-05812	---
SD68	Steel	3/16	3/8	3/8 to 1/2	15-05813	---
SDL612	Steel	3/16	5/8	5/8 to 3/4	15-05814	---
SDL68	Steel	3/16	5/8	3/8 to 1/2	15-05815	---
SSD42-S	Stainless Steel	1/8	1/4	1/16 to 1/8	15-05802	---
SSD43-S	Stainless Steel	1/8	1/4	1/8 to 3/16	15-05803	---
SSD48-S	Stainless Steel	1/8	1/4	3/8 to 1/2	15-05804	---
SSD64-S	Stainless Steel	3/16	3/8	1/8 to 1/4	15-05805	---
SSD68-S	Stainless Steel	3/16	3/8	3/8 to 1/2	15-05806	---

RIVET/RIVET NUT BACK MARKER

Used to locate pre-drilled holes in the wing ribs, fuel tank covers, panels, skin. Pre-drill the ribs, screw in the back markers, lay the skin sheet over the top, tap with a hammer, turn the sheet over, and drill the holes. This is especially useful for rivnut installation. Due to the large size of the hole required, small errors in location can lead to the “Oh darn, I missed the rib syndrome”. Backmarkers can save you hours of frustration. Two sizes of threaded backmarkers are available. We recommend using the 04-00131 for wing ribs. Drilling the wing ribs with a 3/32” drill. Drop in the back markers. Mark the skin by taping with a soft hammer. Turn the skin over and drill the skin with a 3/32” drill. Cleco the skin into position enlarge the holes with #30 drill & cleco. Now you are ready to rivet.

Nut Plate	Marker Size	Drill Size	Part No.	Price Ea.
10-32	.154	3/8”	04-00124	---

SOLID ALUMINUM RIVETS
AN426 (MS20426) AN470 (MS20470)

"A" rivets are "soft". They are fabricated from 1100-grade aluminum and have a tensile strength of 16,000 PSI. "AD" rivets are fabricated from 2117 aluminum and heat treated to the T4 condition. They have a shear strength of 26,000 PSI and a tensile strength of 38,000 PSI. All rivets sold in 1/4 lb. & 1/8 lb. packages.

Dash No.	Dia. x L	Price per 1/4 Lb. AN426A	Price per 1/4 Lb. AN426AD	Qty Lb.	Price per 1/4 Lb AN470A	Price per 1/4 Lb AN470AD	Qty Lb.
2-5	---	---	---	---	---	---	---
3-2	3/32 x 1/8	---	---	6406	---	---	4107
3-3	3/32 x3/16	---	---	5003	---	---	3485
3-3.5	3/32 X 7/32	---	---	5618	---	---	---
3-4	3/32 x 1/4	---	---	4103	---	---	3027
3-5	3/32 x 5/16	---	---	3478	---	---	2675
3-6	3/32 x 3/8	---	---	3018	---	---	2397
3-7	3/32 x 7/16	---	---	2666	---	---	2171
3-8	3/32 x 1/2	---	---	2161	---	---	1826
3-9	3/32 x 9/16	---	---	---	---	---	---
3-10	3/32 x 5/8	---	---	1817	---	---	1576
3-12	3/32 x 3/4	---	---	1640	---	---	1403
3-14	3/32 x 7/8	---	---	1567	---	---	1386
3-15	3/32 x 5/16	---	---	1383	---	---	---
3-16	3/32 x 1	---	--	1378	---	---	1237
4-3	1/8 x 3/16	---	---	2810	---	---	1734
4-4	1/8 x 1/4	---	---	2308	---	---	1529
4-4.5	1/8 x 9/32	---	---	---	---	---	1925
4-5	1/8 x 5/16	---	---	1958	---	---	1367
4-5.5	1/8 X 11/32	---	---	---	---	---	1674
4-6	1/8 x 3/8	---	---	1700	---	---	1236
4-7	1/8 x 7/16	---	---	1502	---	---	1128
4-8	1/8 x 1/2	---	---	1346	---	---	1037
4-9	1/8 x 9/16	---	---	1219	---	---	960
4-10	1/8 x 5/8	---	---	1025	---	---	836
4-11	1/8 x 1	---	---	---	---	---	---
4-12	1/8 x 3/4	---	---	885	---	---	740
4-13	1/8 x 13/16	---	---	797	---	---	715
4-14	1/8 x 7/8	---	---	631	---	---	689
4-15	1/8 x 15/16	---	---	---	---	---	---
4-16	1/8 x 1	---	---	592	---	---	594
4-20	1/8 x 1-1/4	---	---	467	---	---	521
4-22	1/8 x 1-3/8	---	---	328	---	---	496
5-3	5/32 x 3/16	---	---	1800	---	---	---
5-4	5/32 x 1/4	---	---	1440	---	---	888
5-5	5/32 x 5/16	---	---	1226	---	---	850
5-6	5/32 x 3/8	---	---	1079	---	---	802
5-7	5/32 x 7/16	---	---	946	---	---	672
5-8	5/32 x 1/2	---	---	849	---	---	621
5-9	5/32 x 9/16	---	---	770	---	---	578
5-10	5/32 x 5/8	---	---	649	---	---	507
5-12	5/32 x 3/4	---	---	494	---	---	407
5-13	5/32 x .812	---	---	---	---	---	514
5-14	5/32 x 7/8	---	---	---	---	---	---
5-16	5/32 x 1	---	---	450	---	---	366
5-22	5/32 x 1-3/8	---	---	368	---	---	314
6-4	3/16 x 1/4	---	---	1134	---	---	1134
6-5	3/16 x 5/16	---	---	846	---	---	515
6-6	3/16 x 3/8	---	---	---	---	---	---
6-7	3/16 x 7/16	---	---	728	---	---	436
6-8	3/16 x 1/2	---	---	395	---	---	395
6-9	3/16 x 9/16	---	---	---	---	---	354
6-10	3/16 x 5/8	---	---	451	---	---	334
612	3/16 x 3/4	---	---	---	---	---	---
6-14	3/16 x 7/8	---	---	390	---	---	299

10% Discount for 5lbs. of rivets or more (per P/N)

SOLID RIVET ASSORTMENT

"AD" indicates Hard 2117 aluminum alloy. These rivets are heat treated and have a minimum tensile strength of 38,000 PSI. "A" indicates Soft 100 pure aluminum and have a minimum tensile strength of 16,000 PSI.**Each kit contains 1/8 lb each of the following 12 sizes:** 3/32 (3-4, 3-6, 3-8); 5/32 (5-4, 5-5, 5-6, 5-8); 1/8 (4-4, 4-6, 4-8); 3/16 (6-6, 6-8)

Pack C..... AN470AD, Universal Hard.....P/N 04-00357 ..... ---
Pack D..... AN470A, Universal Soft.....P/N 04-00358 ..... ---
Pack E..... AN426AD, 100° CSK Hard....P/N 04-00359 ..... ---
Pack F..... AN426A, 100° CSK Soft.....P/N 04-00361 ..... ---

SEAT RAIL RIVET KIT - Contains AN470AD rivets for installation of 2 seat rails in Cessna 177.....P/N 01-01361 ..... ---

CHERRYMAX RIVETS

100° Countersunk Head (CR3242 & CR3212)

Universal Head (CR3243 & CR3213)

Due to the large bulbed blind head, similar to that of a solid rivet, the Cherrylock and CherryMax rivets are especially suited for double dimpled or high vibration applications. They can be used as replacements for some solid rivets and are excellent for use in fiberglass or composites as the rivet spreads in a way that prevents crazing or cracking of the material. **Note**: CR3212 & CR3213 are nominal diameters. CR3242 & CR3243 are oversized diameters and measure 1/64" more than listed diameter.

Install with P/N 12-03105 G-27 Hand Gun.

Dash #	Dia.	CR3212 Grip Range	CR3213 Grip Range	Each	Price 100
4-1	.126	-----	.025-.062	---	---
4-2		.063-.125	.063-.125	---	---
4-3		.126-.187	.126-.187	---	---
4-4		.188-.250	.188-.250	---	---
4-5		.251-.312	.251-.312	---	---
4-6		.313-.375	.313-.375	---	---
4-9		.501-.582	-----	---	---
5-2	.157	.065-.125	.063-.125	---	---
5-3		.126-.187	.126-.187	---	---
5-4		.188-.250	.188-.250	---	---
5-5		.251-.312	.251-.312	---	---
5-6		.313-.375	.313-.375	---	---
6-10	.189	.563-.625	.563-.625	---	---

Dash #	Dia.	CR3242 Grip Range	CR3243 Grip Range	Each	Price 100
4-1	.140	.032-.063	.025-.062	---	---
4-2		.063-.125	.063-.125	---	---
4-3		.126-.187	.126-.187	---	---
4-4		.188-.250	.188-.250	---	---
4-5		.251-.312	.251-.312	---	---
4-6		.313-.375	.313-.375	---	---
5-2	.173	.063-.125	.063-.125	---	---
5-3		.126-187	.126-.187	---	---
5-4		.188-.250	.188-.250	---	---
5-5		.251-.312	.251-.312	---	---
5-6		.313-.375	.313-.375	---	---
6-6	.187	---	.313-.375	---	---

NOTE: SUBJECT TO PRICE AND AVAILABILITY OF CHERRY BRAND RIVETS. EQUIVALENT RIVETS MAY BE FURNISHED.

CHERRYMAX GRIP GAUGE

Measures rivet diameter and length.
P/N 12-00217 ..... ---

ZENAIR BLIND RIVETS

The Zenith blind rivets are made from quality alloys, and are batch tested by Zenith Aircraft Company for shear strength before being shipped. These rivets are corrosion resistant, and the stem becomes locked in after being set. Also, not many different lengths are required for different diameters or thicknesses. In the Assembly Instructions, they are designated as A4 (1/8) and A5 (5/32.
See Tools Section for Zenair Riveters.

Zenair Blind Rivet 1/8".....P/N 12-05538 ..... ---
Zenair Blind Rivet 5/32".....P/N 12-05539 ..... ---
Domed Head Blind Rivets 3/16".....P/N 12-05540 ..... ---
Blind Rivets Domed Head Rivet 3/32".....P/N 12-05541 ..... ---
Stainless Steel Rivet 3-5mm Grip 5/32" .....P/N 12-05542 ..... ---

OVERSIZE AND HALF SIZE RIVETS

HALF-SIZE LENGTH RIVETS - These flush head AN426 rivets are ideal for those situations where one length is just too short & the next length is too long.

Part No.	Dia.	Length	Price Per 1/8 lb.
AN426AD-3-3.5	3/32"	7/32"	---
AN426AD-3-4.5	3/32"	9/32"	---
AN426AD-3-5.5	3/32"	11/32"	---

OVERSIZE SHANK RIVETS - These NAS1097 rivets feature a 1/8" diameter shank with a head size that of a 3/32" rivet. Perfect when rivet hole becomes enlarged requiring 1/8" shank but 3/32" head matches rest of your 3/32" rivets.

Part No.	Dia.	Length	Price Per 1/8 lb.
NAS1097AD-4-3.5	1/8"	7/32"	---
NAS1097AD-4-4	1/8"	1/4"	---
NAS1097AD-4-5	1/8"	5/16"	---
NAS1097AD-4-6	1/8"	3/8"	---

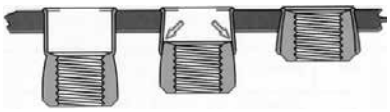
Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

NUTSERTS

The A-T Series Insert is unique in that it can be installed into most any material above .030/,76 mm in thickness. As the A-T Series is installed, the threaded portion is completely swaged 360° into the sleeve portion and the hole. This permits the A-T Series to be used with Grade 8/metric 12.9 mating screws.
The A-T Series Insert is installed using light-weight, hand held pneumatic tools that can be located at any position in your product's assembly sequence. The A-T Series Insert can be installed either prior to or after finish.

360° SWAGING HOW IT WORKS FOR YOU

As the A-T Series Insert is installed, the threaded nut portion is drawn into the upper sleeve portion.



As this occurs, a 360° swaging action takes place anchoring the A-T Series in the parent material.

NUTSERT HOLE SIZE / MATERIAL THICKNESS CHART

Installation hole size for the A-T Series Insert is determined by the parent material's thickness and density. The thicker the material the larger the hole required to allow full 360° installation swaging. The application should be tested before hole size is specified.

THREAD SIZE	.030-.090 MAT. THICKNESS		.091-.124 MAT THICKNESS		.125-.186 MAT. THICKNESS		.187-OVER MAT. THICKNESS	
	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL	DRILL SIZE	DECIMAL
4-40 UNC	3/16	.1875	#10	.1935	#10	.1935	#9	.1960
6-32 UNC	7/32	.2188	#2	.2210	#1	.2280	#1	.2280
8-32 UNC	1/4	.2500	"F"	.2570	17/64	.2656	17/64	.2656
10-24 UNC	9/32	.2812	"L"	.2900	"L"	.2900	19/64	.2969
10-32 UNF	9/32	.2812	"L"	.2900	"L"	.2900	19/64	.2969
1/4-20 UNC	3/8	.3750	3/8	.3750	"W"	.3860	25/64	.3906
1/4-28 UNC	3/8	.3750	3/8	.3750	"W"	.3860	25/64	.3906
5/16-18 UNC	1/2	.5000	1/2	.5000	33/64	.5156	33/64	.5156
5/16-24 UNC	1/2	.5000	1/2	.5000	33/64	.5156	33/64	.5156
3/8-16 UNC	9/16	.5625	9/16	.5625	37/64	.5781	37/64	.5781
1/2-13 UNC	3/4	.7500	49/64	.7656	25/32	.7810	51/64	.7970

Thread Size	Thread Call Out	HD ±.005	L ±.015	D MAX.	IL MAX.	LB ±.015	ILB MAX.	IATD** MAX.	Hole Depth Min.	Part No.	Price Each
4-40 UNC	440	.211	.370	.1875	.205	.660	.495	.395	.400	ATS2-440	---
6-32 UNC	632	.240	.370	.2185	.205	.675	.505	.410	.400	ATS2-632	---
8-32 UNC	832	.269	.370	.2495	.205	.675	.505	.410	.400	ATS2-832	---
10-24 UNC	1024	.306	.370	.2805	.205	.685	.520	.385	.400	ATS2-1024	---
10-32 UNF	1032	.306	.370	.2805	.205	.685	.520	.385	.400	ATS2-1032	---
1/4-20 UNC	420	.400	.515	.3745	.275	1.005	.760	.615	.540	ATS2-420	---
1/4-28 UNC	420	.400	.515	.3745	.275	1.005	.760	.615	.540	ATS2-428	---
5/16-18 UNC	518	.528	.615	.4995	.325	1.065	.770	.630	.640	ATS2-518	---
5/16-24 UNC	518	.528	.615	.4995	.325	1.065	.770	.630	.640	ATS2-524	---
3/8-16 UNC	616	.588	.745	.5615	.390	1.450	1.095	.890	.770	ATS2-616	---
1/2-13 UNC	813	.800	.935	.7485	.485	NA	NA	NA	.960	ATS2-813	---

****Dimensions in minimum grip condition. Additional UNF thread sizes available.**

AA-112 HI-TORQUE NUTSERT TOOL

The hi-torquer tool is ideal for field and maintenance applications. It features a patented Quick Change thread size nose assembly. Order one base tool plus appropriate conversion kit. No warranty on these tools.

Thread Size	Conv. Kit Part No.	Price Each
4-40 UNC	AAT-202-440	---
6-32 UNC	AAT-202-632	---
8-32 UNC	AAT-202-832	---
10-24 UNC	AAT-202-1024	---
10-32 UNF	AAT-202-1032	---
1/4-20 UNC	AAT-202-420	---
1/4-28 UNC	AAT-202-428	---
5/16-18 UNC	AAT-202-518	---
5/16-24 UNC	AAT-202-524	---
3/8-16 UNC	AAT-202-616	---
Base tool, P/N AA-112		---

AAT916 EXPENDABLE NUTSERT TOOLS

These expendable tools are ideal for applications such as field repair. They can also be packaged with instructions for use along with quantity of inserts for consumer assembly. Sizes 6-32, 8-32 include a hex key. Sizes 10-32,and larger require a wrench (not included). No warranty on these tools.

THREAD SIZE	TOOL PART NUMBER	Price Each
4-40 UNC	AAT-916-440	---
6-32 UNC	AAT-916-632	---
8-32 UNC	AAT-916-832	---
10-24 UNC	AAT-916-1024	---
10-32 UNF	AAT-916-1032	---
1/4-20 UNC	AAT-916-420	---
1/4-28 UNC	AAT-916-428	---
5/16-18 UNC	AAT-916-518	---
5/16-24 UNC	AAT-916-524	---
1/2-13 UNC	AAT-916-813	---
3/8-16 UNC	AAT-916-616	---

AAT312A MASTER NUTSERT ASSORTMENT KIT

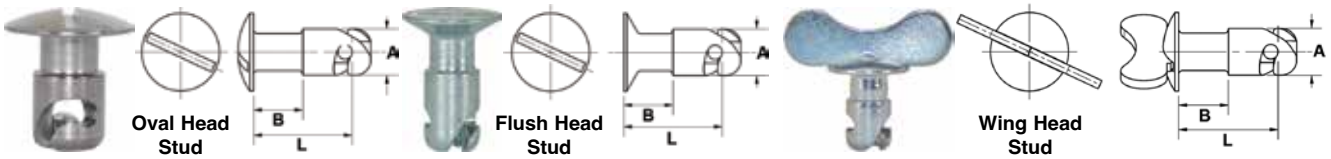
The A-T Series master assortment kit is ideal for prototype and maintenance repair applications. The rugged hard shell plastic kit contains quantities of the A-T Series Inserts and the AA 112 Hi-torquer tool. It also contains a full compliment of thread size conversion kits and instruction label. No warranty on these tools.

KIT CONTAINS:

Thread Size	Qty.	Nutsert Part No.	Conv. Kit
4-40 UNC	50	ATS2-440	AAT-202-440
6-32 UNC	50	ATS2-632	AAT-202-632
8-32 UNC	50	ATS2-832	AAT-202-832
10-32 UNF	50	ATS2-1032	AAT-202-1032
1/4-20 UNC	50	ATS2-420	AAT-202-420
5/16-18 UNC	50	ATS2-518	AAT-202-518
Kit, P/N AAT312A			---

Nutsert available. Sold Each.

DZUS® FASTENERS



Oval Head Stud

Flush Head Stud

Wing Head Stud

HA

OVAL HEAD STUD, LONG UNDERCUT

Model No.	Stud Dimensions			Zinc Electroplated		Model No.	Stainless		Grommets & Snap Rings	Springs
	A	B	L	Cat. #	Price Each		Cat. #	Price Each		
121J-325-Z3C	.1875	.075	.250	AJ3-25*	---	-	-	-	GA3-175, 200, 250 GP3B, GH3 SR3SS SX-520SS	S3-150, 175 200, 225
121J-330-Z3C	.1875	.100	.300	AJ3-30	---	-	-	-		
121J-335-Z3C	.1875	.150	.350	AJ3-35*	---	121J-335-SS	AJ3-35SS*	---		
121J-340-Z3C	.1875	.200	.400	AJ3-40	---	-	-	-		
121J-425-Z3C	.250	.100	.250	AJ4-25*	---	121J-425-SS	AJ4-25SS*	---	GA4-225, 250, 275, 300 GP4B, GH4 SB4SS SX-523SS	S4-200, 225
121J-430-Z3C	.250	.100	.300	AJ4-30	---	121J-430-SS	AJ4-30SS	---		
121J-435-Z3C	.250	.150	.350	AJ4-35*	---	121J-435-SS	AJ4-35SS*	---		
121J-440-Z3C	.250	.200	.400	AJ4-40	---	121J-440-SS	AJ4-40SS	---		
121J-445-Z3C	.250	.225	.450	AJ4-45*	---	-	-	-		
121J-450-Z3C	.250	.250	.500	AJ4-50	---	-	-	-		
121J-530-Z3C	.3125	.125	.300	AJ5-30	---	121J-530-SS	AJ5-30SS	---	GA5-312, 350, 375 GP5B, GH5 SR5SS SX-510SS	S5A200, 225 250, 275
121J-535-Z3C	.3125	.125	.350	AJ5-35*	---	121J-535-SS	AJ5-35SS*	---		
121J-540-Z3C	.3125	.190	.400	AJ5-40	---	121J-540-SS	AJ5-40SS	---		
121J-545-Z3C	.3125	.190	.450	AJ5-45*	---	-	-	-		
121J-550-Z3C	.3125	.250	.500	AJ5-50	---	-	-	-		
121J-560-Z3C	.3125	.300	.600	AJ5-60	---	-	-	-		
121J-570-Z3C	.3125	.400	.700	AJ5-70	---	-	-	-		
121J-635-Z3C	.375	.150	.350	AJ6-35*	---	-	-	-	GA6-350, 375, 425 GP6B,GH6 SR6SS SX-518SS	S6-225, 250, 275, 300
121J-640-Z3C	.375	.190	.400	AJ6-40	---	-	-	-		
121J-650-Z3C	.375	.250	.500	AJ6-50	---	-	-	-		
121J-660-Z3C	.375	.300	.600	AJ6-60	---	-	-	-		
121J-670-Z3C	.375	.350	.700	AJ6-70	---	-	-	-		
121J-740-Z3C	.4375	.190	.400	AJ7-40	-	-	-	-	GA7-375, 475, 525 GH7 SR7SS, SX-519SS	S7-225, 250, 275, 300
121J-750-Z3C	.4375	.250	.500	AJ7-50	---	-	-	-		
121J-770-Z3C	.4375	.350	.700	AJ7-70	-	-	-	-		

FLUSH HEAD STUD, LONG UNDERCUT

Model No.	Stud Dimensions			Zinc Electroplated		Model No.	Stainless		Grommets & Snap Rings	Springs
	A	B	L	Cat. #	Price Each		Cat. #	Price Each		
126J-330-Z3C	.1875	.150	.300	FJ3-30	---	-	-	-	GP3B-GH3 SR3SS SX-520SS	S3-150, 175, 200, 225
126J-335-Z3C	.1875	.175	.350	FJ3-35*	-	-	-	-		
126J-340-Z3C	.1875	.200	.400	FJ3-40	---	-	-	-		
-	.250	.150	.300	-	-	126J-430-SS	FJ4-30SS	---	GF4-125, 150, 175, 200 GP4B, GH4 SR4SS SX-523SS	S4-200, 225
126J-435-Z3C	.250	.175	.350	FJ4-35*	---	126J-435-SS	FJ4-35SS1	---		
126J-440-Z3C	.250	.200	.400	FJ4-40	-	126J-440-SS	FJ4-40SS	---		
126J-445-Z3C	.250	.225	.450	FJ4-45*	---	126J-445-SS	FJ4-45SS1	---		
126J-450-Z3C	.250	.250	.500	FJ4-50	---	-	-	-		
126J-540-Z3C	.3125	.225	.400	FJ5-40	---	126J-540-SS	FJ5-40SS	---	GF5-175, 225, 250 GP5B, GH5 SR5SS, SX-510SS	S5A200, 225 250, 275
126J-550-Z3C	.3125	.250	.500	FJ5-50	---	-	-	-		
126J-560-Z3C	.3125	.300	.600	FJ5-60	---	-	-	-		
126J-650-Z3C	.375	.250	.500	FJ6-50	---	-	-	-	GF6-218, 250 GP6B,GH6 SR6SS, SX-518SS	S6-225, 250, 275 300
126J-660-Z3C	.375	.300	.600	FJ6-60	---	-	-	-		
126J-670-Z3C	.375	.350	.700	FJ6-70	---	-	-	-		
126J-750-Z3C	.4375	.250	.500	FJ7-50	---	-	-	-	GF7-250, 325, 400 GH7, SR7SS, SX-519SS	S7-225, 250, 275, 300
126J-770-Z3C	.4375	.350	.700	FJ7-70	-	-	-	-		

WING HEAD STUD, LONG UNDERCUT

(A, B, L dimensions for AJW are same as for AJ; P, Q, R dimensions given are for wing head)

Model No.	Stud Dimensions			Zinc Electroplated		Model No.	Stainless		Grommets & Snap Rings	Springs
	A	B	L	Cat. #	Price Each		Cat. #	Price Each		
121J-W325-Z3C	.1875	.075	.250	AJW3-25*	-	-	AJW3-25SS*	-	GA3-175, 200, 250 GP3B, GH3 SR3SS SX-520SS	S3-150, 175 200, 225
121J-W330-Z3C	.1875	.100	.300	AJW3-30	---	-	-	-		
121J-W335-Z3C	.1875	.150	.350	AJW3-35*	---	-	-	-		
121J-W340-Z3C	.1875	.200	.400	AJW3-40	---	-	-	-		
121J-W425-Z3C	.250	.100	.250	AJW4-25*	---	-	-	-	GA4-225, 250, 275, 300 GP4B, GH4 SR4SS SX-523SS	S4-200, 225
121J-W430-Z3C	.250	.100	.300	AJW4-30	---	-	-	-		
121J-W435-Z3C	.250	.150	.350	AJW4-35*	---	-	-	-		
121J-W440-Z3C	.250	.200	.400	AJW4-40	---	-	-	-		
121J-W530-Z3C	.3125	.125	.300	AJW5-30	---	-	-	-	GA5-312, 350, 375 SR5SS SX-510SS	S5A200, 225
121J-W540-Z3C	.3125	.190	.400	AJW5-40	---	-	-	-		
121J-W545-Z3C	.3125	.200	.450	AJW5-45*	---	-	-	-		
121J-W550-Z3C	.3125	.250	.500	AJW5-50	---	-	-	-		

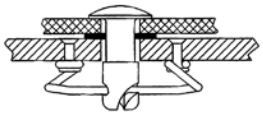
CAD PLATED FASTENERS ARE NO LONGER AVAILABLE DUE TO ENVIROMENTAL REASONS.

***No longer available after our current stock is depleted. Please order next longer size.**

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

DZUS® FASTENERS

STUD AND SPRING SELECTION TABLES



1. Find total thickness (distance) from underside of stud head to point of spring attachment).
2. Select stud "L" and spring "H" dims.

Size 3 Stud, S3 Spring			Size 4 Stud, S4 Spring		
	Use			Use	
Total Thickness	Stud Dim. L	Spring Dim, H	Total Thickness	Stud Dim. L	Spring Dim. H
.045 - .069	-25	-225	.050 - .074	-25	-225
.070 - .094	-25	-200	.075 - .099	-25	-200
.095 - .119	-30	-225	.100 - .124	-30	-225
.120 - .144	-30	-200	.125 - .149	-30	-200
.145 - .169	-30	-175	.150 - .174	-35	-225
.170 - .194	-30	-150	.175 - .199	-35	-200
.195 - .219	-35	-175	.200 - .224	-40	-225
.220 - .224	-35	-150	.225 - .249	-40	-200
.245 - .269	-40	-175	.250 - .274	-45	-225
.270 - .294	-40	-150	.275 - .299	-45	-200
			.300 - .324	-50	-225
			.325 - .344	-50	-200

Size 5 Stud, S5A Spring			Size 6 Stud, S6 Spring Size 7 Stud, S7 Spring		
	Use			Use	
Total Thickness	Stud Dim. L	Spring Dim, H	Total Thickness	Stud Dim. L	Spring Dim. H
.055 - .079	-30	-275	.090 - .114	-35	-300
.080 - .104	-30	-250	.115 - .139	-35	-275
.105 - .129	-30	-225	.140 - .164	-35	-300
.130 - .154	-30	-200	.165 - .189	-40	-275
.155 - .179	-40	-275	.190 - .214	-40	-250
.180 - .204	-40	-250	.215 - .239	-40	-225
.205 - .229	-40	-225	.240 - .264	-50	-300
.230 - .254	-40	-200	.225 - .249	-40	-200
.255 - .279	-50	-275	.265 - .289	-50	-275
.280 - .304	-50	-250	.290 - .314	-50	-250
.305 - .329	-50	-225	.315 - .339	-50	-225
.330 - .354	-50	-200	.340 - .364	-60	-300
.355 - .379	-60	-275	.365 - .389	-60	-275
.380 - .404	-60	-250	.390 - .414	-60	-250
.405 - .429	-60	-225	.415 - .439	-60	-225
.430 - .454	-60	-200	.440 - .464	-70	-300
.455 - .479	-70	-275	.465 - .489	-70	-275
.480 - .504	-70	-250	.490 - .514	-70	-250
.505 - .529	-70	-255	.515 - .539	-70	-225
.530 - .554	-70	-200			

SPRINGS

Model No.	Part No.	Price Ea.	Model No.	Part No.	Price Ea.
1219-3150-Z3CT	S3-150	---	1219-5300-Z3Y	S5A-300	---
1219-3175-Z3Y	S3-175	---	1219-6225-Z3Y	S6A-225	---
1219-3200-Z3Y	S3-200	---	1219-6250-Z3Y	S6A-250	---
1219-3225-Z3Y	S3-225	---	1219-6275-Z3Y	S6A-275	---
1219-4220-Z3Y	S4-200	---	1219-6300-Z3Y	S6-300	---
1219-4225-Z3Y	S4-225	---	1219-6400-Z3Y	S6A-400	---
1219-4250-Z3Y	S4-250	---	1219-6425-Z3Y	S6A-425	---
1219-A4200-Z3Y	S4A-200	---	1219-6325-Z3Y	S5A-325	---
S5-325-SURP		---	1219-7250-Z3Y	S7-250	---
1219-A5200-Z3Y	S5A-200	---			
1219-A5225-Z3Y	S5A-225	---			
1219-A5250-Z3Y	S5A-250	---			
1219-A5275-Z3Y	S5A-275	---			
The dash number represents the height ("H" dimension) of the spring.					

RETAINING SPRINGS

When there is a gap between the top and bottom panels, a retaining spring is used to hold the stud in locking position for alignment with receptacle.

Model No.	Part No.	Price ea
1219-24520-SS	SX-520SS	---
1219-24523-SS	SX-523SS	---
1219-24510-SS	SX-510SS	---
1219-24518-SS	SX-518SS	---

SNAP RINGS

A snap ring is used when there is not a lot of pull-out load. This ring is expandable easily installed with pliers or screwdriver and takes little space.

Model No.	Part No.	Price ea
1219-R3-SS	SR3SS	---
1219-R4-SS	SR4SS	---
1219-R5-SS	SR5SS	---
1219-R6-SS	SR6SS	---
1219-R7-SS	SR7SS	---

HA

FULL GROMMETS

A full grommet is used when protection of the hole is a definite consideration. It protects panel finish and reduces stud play. A tool is required for installation. The "GA" type full grommet is used with a protruding head stud, and the "GF" type with a flush head stud.

ALUMINUM

Outer Panel Thickness	Type "GA"			Type "GF"		
	Model No.	Part No.	Price	Model No.	Part No.	Price
.015 - .025	1271-3175	GA3-175	---	---	N/A	---
.026 - .050	1271-200	GA3-200	---	---	N/A	---
.051 - .094	1271-250	GA3-250	---	---	N/A	---
.015 - .025	---	GA4-225	--	1276-4125	GF4-125	---
.026 - .050	1271-4250	GA4-250	---	1276-4150	GF4-150	---
.051 - .075	1271-4275	GA4-275	---	1276-4175	GF4-175	---
.076 - .100	1271-4300	GA4-300	---	1276-4200	GF4-200	---
.031 - .062	1271-5312	GA5-312	---	1276-5175	GF5-175	---
.063 - .094	1271-5350	GA5-350	---	1276-5225	GF5-225	---
.095 - .125	1271-5375	GA5-375	---	1276-5250	GF5-250	---
.040 - .065	1271-6350	GA6-350	---	---	GF6-218	---
.066 - .100	1271-6375	GA6-375	---	1276-6250	GF6-250	---
.101 - .135	1271-6425	GA6-425	---	---	---	---
.050 - .095	1271-7375	GA7-375	---	1276-7250	GF7-250	---
.096 - .156	---	GA7-475	---	---	GF7-325	---
.157 - .218	1271-7525	GA7-525	---	1276-7400	GF7-400	---

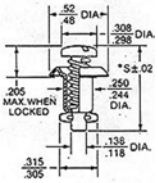
HALF GROMMETS

A half grommet does not break easily, and it flattens but guarantees hold of the stud. It is used when protection of the hole is not a consideration, but protection of panel finish might be. The "GH" type half grommet is installed with a tool; the "GP" type is pushed on by hand.

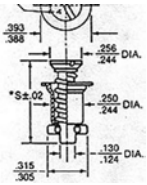
Type "GP" Thermoplastic			Type "GH" Aluminum		
Model No.	Part No.	Price ea	Model No.	Part No.	Price ea
127P-3B	GP3B	---	127H-3	GH3	---
127P-4B	GP4B	---	127H-4	GH4	---
127P-5B	GP5B	---	127H-5	GH5	---
127P-6B	GP6B	---	127H-6	GH6	---
127P-7B	GP7B	---	127H-7	GH7	---

CAMLOC FASTENERS

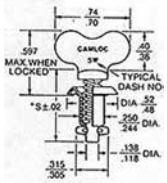
The 2600 and 2700 series Camloc fasteners exceed requirements for MIL-F-5591, Style 3, Size 2. Shear and tensile strength: 300 lbs. (ultimate), 200 lbs. (rated). Studs and washers listed are made of steel. The receptacles are made of copper base alloy. All components listed are rated to 450° F. The 4002 series fasteners are considerably stronger than the 2600 and 2700 series. Shear and tensile strength: 1050 lbs. (ultimate), 700 lbs. (rated). All studs and grommets listed are made of steel. Rated to 450° F.



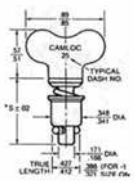
2600



2700



2600 WING



4002 WING

2600 SERIES STUDS

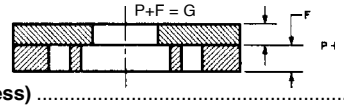
Dash No.	CAD Plated		Stainless		CAD Plated	
	2600 Slot Price Ea	26S8 Phillips Price Ea	Dash No.	2600 Slot Price Ea	Wing CAD Plated	Price Each
-1	---	---	-1S	---	---	---
-2	---	---	-2S	---	2600-2W	---
-3	---	---	-3S	---	2600-3W	---
-4	---	---	-4S	---	2600-4W	---
-5	---	---	-5S	---	2600-5W	---
-6	---	---	-6S	---	2600-6W	---
-7	---	---	-7S	---	2600-7W	---
-8	---	---	-8S	---	2600-8W	---
-9	---	---	-9S	---	2600-9W	---
-10	---	---	-10S	---	2600-10W	---
-11	---	---	---	---	2600-11W	---
-12	---	---	---	---	2600-12W	---
-13	---	---	---	---	---	---
-14	---	---	---	---	2600-14W	---

2700 SERIES STUDS

Dash No.	CAD Plated		Stainless	
	2700 Slot Price Ea	27S3 Phillips Price Ea	Dash No.	2700 Slot Price Ea
-1	---	---	-1S	---
-2	---	---	-2S	---
-3	---	---	-3S	---
-4	---	---	-4S	---
-5	---	---	-5S	---
-6	---	---	-6S	---
-7	---	---	-7S	---
-8	---	---	-8S	---
-9	---	---	-9S	---
-10	---	---	-10S	---
-11	---	---	-11S	---
-12	---	---	-12S	---
-13	---	---	-13S	---
-14	---	---	---	---

2600 / 2700 SERIES STUD LENGTH SELECTION

Total material thickness "G" consists of the thickness of all materials to be fastened. This must include the thickness of the material "P" to which the stud assembly is attached, the material "F" to which the receptacle is attached plus gaskets (if used) and allowance for paint or other protective finishes. If the total thickness is near the upper limit of the stud grip range, the next longer stud should be used. This will still maintain positive locking of the fastener under vibration.



P (panel thickness) .....**.062**
F (frame thickness .....**+ .062**
GRIP (total thickness).....**= .124**

STUD SELECTION TABLE Using 212-12 Receptacle		
Total Grip Thickness	Use 2600	Use 26700
.020 - .059	2600-1	2700-1
.060 - .089	2600-2	2700-2
.090 - .119	2600-3	2700-3
.120 - .149	2600-4	2700-4
.150 - .179	2600-5	2700-5
.180 - .209	2600-6	2700-6
.210 - .239	2600-7	2700-7

STUD SELECTION TABLE Using 212-12 Receptacle		
Total Grip Thickness	Use 2600	Use 26700
.240 - .269	2600-8	2700-8
.270 - .299	2600-9	2700-9
.300 - .329	2600-10	2700-10
.330 - .359	2600-11	2700-11
.360 - .389	2600-12	2700-12
.390 - .419	2600-13	2700-13
.420 - .449	2600-14	2700-14

4002 SERIES STUDS

Dash No.	CAD Plated / Stainless							
	4002 CAD Plated Slot Price	40S5 CAD Plated Phillips Price	40S5 SS Phillips	Price Each	Dash No.	4002 SS Slot Price	Wing CAD Plated	Price Each
-2	---	---	-2S	---	-2S	---	4002-2W	---
-3	---	---	-3S	---	-3S	---	4002-3W	---
-4	---	---	-4S	---	-4S	---	4002-4W	---
-5	---	---	-5S	---	-5S	---	4002-5W	---
-6	---	---	-6S	---	-6S	---	4002-6W	---
-7	---	---	-7S	---	-7S	---	---	---
-8	---	---	-8S	---	-8S	---	4002-8W	---
-9	---	---	-9S	---	-9S	---	4002-9W	---
-10	---	---	-10S	---	---	---	4002-10W	---
-11	---	---	---	---	---	---	4002-11W	---
-12	---	---	---	---	---	---	4002-12W	---
-13	---	---	---	---	---	---	---	---
-14	---	---	---	---	---	---	---	---
-15	---	---	---	---	---	---	---	---
-16	---	---	---	---	---	---	---	---
-17	---	---	---	---	---	---	---	---

4002 SERIES (LARGE HEAD) STUD SELECTION

To select the proper length stud, first select the grommet, for example 4002-G. Next, select the receptacle, such as 214-16. After determining the total grip thickness, use the grommet column under which the selected grommet and receptacle appear. Use the dash number which appears opposite the determined total grip thickness.
Example: If the total determined grip thickness "G" was. 144, the stud dash number for the above 4002-G grommet and 214-16 receptacle would be -4. The stud part number would be 4002-4.

Total Grip Thickness Range "G"	Stud Dash Number	
	4002-G Grommet & 214-16 Receptacle	4002-N, 4002-0 Grommet & 214-16 Receptacle
.021 - .050	--*	-1
.055 - .080	--*	-2
.081 - .110	-2*	-3
.111 - .140	-3	-4
.141 - .170	-4	-5
.171 - .200	-5	-6
.201 - .230	-6	-7
.231 - .260	-7	-8
.261 - .290	-8	-9
.291 - .320	-9	-10
.321 - .350	-10	-11
.351 - .380	-11	-12
.381 - .410	-12	-13
.411 - .440	-13	-14
.441 - .470	-14	-15
.471 - .500	-15	-16
.501 - .530	-16	-17
.531 - .560	-17	-

***4002-G grommet requires .090" minimum grip.**

2600, 2700 SERIES RETAINING WASHERS

Retaining washers are required for studs of -5 length or greater. Use split washer 2600-SW2 where it is desirable to have the stud fall away for minimum internal projection. Use internal tooth washer 2600-LW where it is desirable to retain the stud assembly rigidly.
P/N 2600-SW-2 ..... --- P/N 2600-LW ..... ---

HA

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Please view our website for current prices.

CAMLOC FASTENERS – COWLING KITS

4002 SERIES GROMMETS & SNAP RINGS

Description	Part No.	Price
CAD Plated		
Flush Grommet	4002-G	---
Flush Grommet	4002-H	---
Plus-Flush Grommet	4002-N	---
Stud Retaining Grommet	4002-O	---
High Shear Flush Grommet	40G1-5	---
Wide Area Grommet	4002-N3	---
Grommet Retaining Ring	R4G	---
Camloc Retaining Ring	4002-SW	---
Stainless		
High Shear Grommet Retaining Ring	40G26-1	---
Flush Grommet	4002-GS	---
Flush Grommet	4002-HS	---
Plus Flush Grommet	4002-NS	---
Flush Grommet	4002-OS	---

RECEPTACLES

2600 Series - Small enough to fit in limited mounting space and light weight. All of these fasteners have a 600# ultimate tensile load capacity. 4200 Series - The Modern Standard in Quick Release Fastening Systems. They have an 800# working strength and 1050# Ultimate Tensile load capacity.

Rivet Holes	2600, 2700 Series P/N	Price	4002 Series P/N	Price
Plain	212-12N	---	214-16N	---
Countersunk	212-12ND*	---	214-16ND*	---
Plain	Floating Bronze	---	244-16	---

SKYBOLT CAMLOC RETAINING RING SK-R4T

4000 Series Heavy Duty Grommet Retainer. Superior Quality Panel Fastener Manufacturing since 1982. U.S. Manufacturer & Distributor of the highest grade stainless steel 1/4-Turn Panel Fasteners, Grommets & Receptacles, and many other innovative fastening solutions.....P/N 04-04194 ..... ---

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COWLING KITS

Aircraft Make & Model	Stainless				Cad-Plated Phillips	
	Slotted		Phillips			
	Part Number	Price	Part Number	Price	Part Number	Price
Aerosport			04-00327 A	---		
Aero Commander 690	04-00286 B	---			04-00336 B	---
Aerostar	04-00287 B	---			04-00337 B	---
Beech Baron B55 ('69 SN TC1230) A	04-00288 B	---	04-00329 B	---		
Beech Baron B58	04-00289 B	---			04-00338 B	---
Beech Baron P58	04-00291 B	---				
Bellanca Scout 8GCBC	04-00292 A	---				
Bellanca Viking	04-00293 B	---			04-00339 B	---
Cessna 150 (1967-77)	04-00294 A	---	04-00331 A	---		
Cessna 172 (1967-82)	04-00297 A	---	04-00332 A	---		
Cessna 172RG (1984)	04-00298 B	---			04-00341 B	---
Cessna 172XP	04-00299 B	---			04-00342 B	---
Cessna 177	04-00301 A	---	04-00333 A	---		
Cessna 182 (1961-69)	04-00303 B	---				
Cessna 182 (1971 SN 60752)	04-00305 B	---	04-00334 B	---	04-00343 B	---
Cessna 182 (1973 & up)	04-00307 B	---			04-00344 B	---
Cessna 182RG	04-00309 B	---	04-01942 B	---	04-01943 B	---
Cessna 206	04-00310 B	---			04-00347 B	---
Cessna 210	04-00311 B	---			04-00348 B	---
Cessna 310K	04-00312 B	---			04-00349 B	---
Cessna 320	04-00313 B	---			04-00351 B	---
Cessna 337	04-00315 B	---			04-00352 B	---
Cessna 340	04-00317 B	---			04-00353 B	---
Cessna 414	04-00319 B	---			04-00354 B	---
Cessna 421	04-00320 B	---			04-00355 B	---
Mooney 20J	04-00321 B	---	Kit contains Southco or Camloc studs, washers, and retainers. The retainer push on tool is only included in Southco Kits. Receptacles are not included. A is for Southco. B is for Camloc. **The nose cowl components, if applicable, are not included in any cowling kit.**			
Piper PA18	04-00322 A	---				
Piper Cheyenne	04-00006 B	---				
Piper Comanche Twin (Nose)	04-00324 A	---				
Piper Comanche Twin	04-00325 B	---				

CAMLOC FASTENER TOOLS

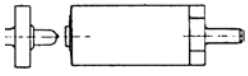
PLIERS

Camloc Fastener Pliers - With black-ox coating. For use with 2600, 2700 & 4002 Stud Series .....P/N 4P3 ..... ---

4002 SERIES MEASURING TOOL

This handy tool is all stainless steel and engraved with Camloc fastener lengths from -2 to -11. Simply slide the Camloc fastener into the tool to determine the size (dash number) of the Camloc. A must for mechanics, paint shops, homebuilders, or anyone working with Camloc fasteners.
Note: Not for use with 2600 / 2700 Series...P/N 12-01598 ..... ---

2S200 SERIES DIMPLING TOOL



Camloc Fastener 2S200 Series Tools. Dimpling tool only. Available in multiple sizes 2S200M-1, 2S200M-2, 2S200F-1.
1/4"x9/16"L .....P/N 2S200M-1 ..... ---
5/16"x5/8""L .....P/N 2S200F-1 ..... ---
5/16"x5/8"L .....P/N 2S200M-2 ..... ---

CAMLOC HOLE SAWS

Camloc Fastener Tools. Available in .471" diameter and .687" diameter.
.687" dia .....P/N 04-01517 ..... ---

Other diameters available

SOUTHCO STUDS

FLUSH SLOTTED

OVAL SLOTTED

WING HEAD

Flush Slotted #82 Stainless Steel	
Part No.	Price
82-14-180-20	---
Flush Phillips #82 Zinc Plated	
Part No.	Price
82-28-100-16	---
82-28-120-16	---
82-28-140-16	---
82-28-160-16	---
82-28-180-16	---
82-28-200-16	---
82-28-220-16	---
82-28-240-16	---
82-28-260-16	---
82-28-280-16	---
82-28-300-16	---
82-28-320-16	---
82-28-340-16	---

Oval Slotted #82 Stainless Steel	
Part No.	Price
82-11-100-20	---
82-11-120-20	---
82-11-140-20	---
82-11-160-20	---
82-11-180-20	---
82-11-200-20	---
82-11-220-20	---
82-11-240-20	---
82-11-280-20	---
Oval Slotted #82 Zinc Plated	
Part No.	Price
82-11-100-16	---
82-11-120-16	---
82-11-140-16	---
82-11-160-16	---
82-11-180-16	---
82-11-200-16	---
82-11-220-16	---
82-11-240-16	---
82-11-260-16	---

Oval Head #82 Stainless Phillips	
Part No.	Price
82-19-120-20	---
82-19-140-20	---
82-19-160-20	---
82-19-180-20	---
82-19-200-20	---
82-19-220-20	---
Oval Head #85 Stainless Slotted	
Part No.	Price
85-11-100-20	---
85-11-140-20	---
85-11-160-20	---
85-11-180-20	---
85-11-200-20	---
85-11-220-20	---
85-11-240-20	---
85-11-260-20	---
85-11-280-20	---
85-11-300-20	---

Wing Head #85 Zinc plate, chromate plus sealer	
Part No.	Price
85-12-140-16	---
85-12-160-16	---
85-12-180-16	---
85-12-200-16	---
85-12-220-16	---
85-12-240-16	---
85-12-260-16	---
85-12-280-16	---
85-12-300-16	---
85-12-320-16	---
85-12-340-16	---
85-12-360-16	---
85-12-380-16	---
85-12-400-16	---

Wing Head #82 Dacrotized	
Part No.	Price
82-12-100-16	---
82-12-120-16	---
82-12-140-16	---
82-12-160-16	---
82-12-180-16	---
82-12-200-16	---
82-12-220-16	---
82-12-240-16	---
82-12-300-16	---
82-12-340-16	---

#82 SOUTHCO RECEPTACLES

FLOATING FOR RIVETING W/O BASE - This space saving stainless steel receptacle offers optimum weight savings by eliminating base.
P/N 82-35-295-20 ..... **---/ea**

FLOATING FOR RIVETING W/ BASE - Full-floating dacrotized steel receptacle is mounted to inside panel with two 3/32" rivets. Compact dimensions save space and weight..... P/N 82-35-302-15 ..... **---/ea**

FIXED FOR WELDING W/BASE - Exactly the same as the receptacle with base above except this receptacle features two welding studs for installation by welding rather than rivets..... P/N 82-35-303-15 ..... **---/ea**

CLIP-ON RECEPTACLES - These versatile receptacles will fit material thickness from .020 to .190 by simply slipping over the hole and clipping in place. Easily removed as well, these receptacles do not require welding or riveting.
P/N 82-47-113-200 (Stainless Steel) ..... **---/ea**
P/N 82-47-113-150 (Steel)..... **---/ea**

RUBBER VIBRATION ISOLATION RECEPTACLES
Use these receptacles where it is necessary to isolate vibration between panels.
P/N 82-35-306-10 ..... **---**

#85 SOUTHCO RECEPTACLES

RIVET TYPE - Receptacle Spring: 1064 steel, dacrotized Base: 1010 steel, dacrotized.
P/N 85-35-295-15 ..... **---**

RIVET TYPE - Receptacle Spring:17-7 PH, stainless steel, passivated Base - 305 stainless steel, passivated ..... P/N 85-35-295-20 ..... **---/ea**

WELD TYPE - Receptacle Spring: 1064 steel, dacrotized Base: 101 steel. dacrotized Rivet: steel, copper-plated ..... P/N 85-35-296-15 ..... **---/ea**

CLIP-ON TYPE - 17-7 PH stainless steel, passivated.
P/N 85-47-101-20 ..... **---/ea**

DETERMINING SOUTHCO STUD PART NO.

Stud Length Material Thickness	Selection Chart Thickness Size
.090 - .109	100
.110 - .129	120
.130 - .149	140
.150 - .169	160
.170 - .189	180
.190 - .209	200
.210 - .229	220
.230 - .249	240
.250 - .269	260
.270 - .289	280

Southco studs are commonly used to secure Cessna cowlings, particularly on models 150, 172, and 177. We stock the popular Southco No. 82 1/4 turn fastener studs, receptacles, and accessories.

TO DETERMINE PART NO.

Select Stud part number using chart above. Example:

82 - 14 - 220 - 16

Southco Fastener Number	Head Type (Slotted)	Stud Length	Material Type (Dacrotized)

SOUTHCO SEALING WASHER - This black synthetic washer is used under head of Southco Studs..... P/N 82-43-201-38 ..... **---/ea**

SOUTHCO EJECTOR SPRING - This stainless steel spring enables the stud head to stand away from the panel when the unit is not fastened. When using the ejector spring, add two grip lengths to stud length to allow for spring and wear washer ..... P/N 43-13-1-24 ..... **---/ea**

SOUTHCO WEAR WASHER - A plastic washer to reduce wear around the Southco stud.When using wear washer add one grip length to stud length selection ..... P/N 82-46-101-39 ..... **---/ea.**

SOUTHCO SPLIT RING RETAINER - Can be installed by hand or tool, and is fabricated from stainless steel..... P/N 82-32-101-20 ..... **---/ea**

SOUTHCO SPLIT RING RETAINER TOOL - Designed to install Southco split ring retainers..... P/N 82-0-7596-11 ..... **---/ea**

SOUTHCO PUSH-ON RETAINER - designed for installation using the retainer tool below. Stainless..... P/N 82-32-201-20 ..... **---/ea**
Plastic..... P/N 82-32-301-12 ..... **---/ea**

SOUTHCO PUSH-ON RETAINER TOOL - An easy-to-use tool quickly installs Southco push-on retainers..... P/N 82-0-22542-11 ..... **---/ea**

SOUTHCO PUSH-ON RETAINER TOOL - An easy-to-use tool quickly installs Southco 85 Series push-on retainers..... P/N 85-0-22543-11 ..... **---**

#85 RETAINERS

Split Ring Hand or tool installation. Stainless steel.
P/N 85-34-101-20 ..... **---/ea**
Push-On Tool installation only. 302 Stainless Steel, Passivated
P/N 85-34-201-20 ..... **---/ea**
Nylon Black ..... P/N 85-34-301-12 ..... **---/ea**

#85 THERMOPLASTIC (CUPPED NYLON) WEAR WASHER

Natural color. Order stud one size longer than size you would use without washer. Adjustment Formula: Add 0.51/.020 to your total material thickness..... P/N 85-46-101-39 ..... **---/ea**

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SKYBOLT CESSNA COWLING FASTENER KITS

CESSNA COWLING STAINLESS SK203 FASTENER CONVERSION KITS

Attention (**): Retro Kit, for customers who have already converted to CLoc™ fasteners in the past but would like to upgrade to the next generation plate mount. (Does not include fasteners, grommets, etc.) Convert your existing "screw cowling" to CLoc™ ¼ Turn Stainless SK203 Fasteners, STC'd & FAA-PMA approved. Designed around the exclusive SK28S3 Wide Flange CLoc™ Fastener, to convert your Southco Cowlings to Heavy Duty SK40S5 CLoc™ ¼ Turn Stainless Fasteners. Cowling Conversion Kits are designed around the superior SK2003 Cowling Mount with Adjustable Receptacles!
FW = Firewall Kit

Aircraft	Serial No.	Description	Part No.	Price
C150	17001-64532	Convert C150 59-66 from screws to CLoc 25S4S Complete Kit	04-02179	---
C150	64533-79405	Convert C150G-M 67-On to CLoc 40S5S/28S3S Complete Kit	08-00666	---
C150	64533-79405	Convert C150G-M 67-On to CLoc 40S5S (FW & Sides)	04-02182	---
C150	64533-79405	Convert C150G-M 67-On to CLoc 40S5S (FW Only)	04-02258	---
C150	64533-79405	Convert C150G-M 67-On to CLoc 40S5S (Sides Only)	04-02180	---
C172	28000-54892	Convert C172 56-66 from screws to CLoc 25S4S Complete Kit	04-02185	---
C172	54893-75034	Convert C172H-P 67-81 to CLoc 40S5S Complete kit	08-00667	---
C172	54893-75034	Convert C172H-P 67-81 to CLoc 40S5S (FW Only)	04-02187	---
C172	54893-75034	Convert C172H-P 67-81 to CLoc 40S5S (Sides Only)	04-02186	---
C172	75035-76516	Convert C172P-Q 80-85 to CLoc 40S5S Complete Kit	08-00671	---
C172	75035-76516	Convert C172P-Q 80-85 to CLoc 40S5S (Sides Only)	04-02190	---
C172	R1722000-3454	Convert C172XP 77-81 to CLoc 40S5S Complete Kit	04-02191	---
C172	R1722000-3454	Convert C172XP 77-81 to CLoc 40S5S (FW Only)	04-02192	---
C172	R1722000-3454	Convert C172XP 77-81 to CLoc 40S5S (Sides Only)	04-02193	---
C172	80001/8001-On	Replace C172R-S 97-On CLoc 40S5S Complete Kit	04-02195	---
C172	80001/8001-On	Replace C172R-S 97-On CLoc 40S5S (FW Only)	04-02196	---
C175	55001-57119	Convert C175 58-62 from screws to CLoc 25S4S Complete Kit	04-02197	---
C177	00001-02752	Convert C177A-B,RG 68-78 to CLoc 40S5S Complete Kit	08-00668	---
C177	00001-02752	Convert C177A-B,RG 68-78 to CLoc 40S5S (FW Only)	04-02198	---
C177	00001-02752	Convert C177A-B,RG 68-78 to CLoc 40S5S (Sides)	04-02199	---
C180	30000-50911	Convert C180 53-60 from screws to CLoc 25S4S Complete Kit	04-02202	---
C182	33000-53007	Convert C182 56-60 from screws to CLoc 25S4S Complete Kit	04-02203	---
C182	61426-68542	Convert C182P-RB 73-86 27S3 to CLoc 40S5S Complete Kit	08-00669	---
C182	61426-68542	Convert C182P-RB 73-86 27S3 to CLoc 40S5S (FW)	04-02205	---
C150	64533-79405	**Upgrade C-150 Retrofit Kit - Plate Mount	04-02259	---
C172	75035-All XP	**Upgrade C-172 all XP Retrofit Kit - Plate Mount	04-02194	---
C177	00001-02752	**Upgrade C-177 Retrofit Kit - Plate Mount	04-02201	---
C182	61426-68542	**Upgrade C-182 Retrofit Kit - Plate Mount	04-02206	---

Note: RET Kits are for customers who have previously installed SK245 Kits and want to convert back to the SK2003 rubber mounts.
RET Kits include new SK2003 Mounts, SK2003-AW Alignment Washers and all Hardware (No Studs or Grommets)

BEECH BONANZA & DEBONAIR COWLING REPLACEMENT AND CONVERSION KITS

Skybolt Replacement Fasteners are TSO-C148 approved. Skybolt Conversion Kits are STC'd for both TC A-777 and 3A15 that cover all Model 33, 35, and 36 Bonanza series. Conversion kits include easy to install SK215-435D Adjustable Receptacles that fit the same hole pattern as the original parts. Complete, up-to-date installation instructions, STC, along with Form 337 statement of conformance included.

Notes:
1: Includes studs and grommets.
2: Uses easy to install SK215-435D adjustable receptacles.
3: Includes studs and pins (no grommets). If grommets installed, they do not require removal to install new studs.
4: Slotted 2700 studs (small flange cups).
5: Phillips SK28S3 studs (wide flange).
6: 4000 series studs.

UPPER COWLING KITS

Description	Model Serial Numbers	Part No.	Price
Stainless Dzus Replacement Kit - Upper Cowlings TSO-C148. Tools required See T1 . (Includes studs and grommets.) Note 1	Bonanza 35 D1 thru D9068, Debonair 33 CD1-CD1234, C33A, E33A CE1-CE289	04-02207	---
Stainless Phillips CLoc 40P Conversion Kit - Upper Cowlings STC Note 2	Bonanza 35 D1 thru D9068, Debonair 33 CD1-CD1234, C33A, E33A CE1-CE289	04-02208	---
Stainless Slotted CLoc 40S Conversion Kit - Upper Cowlings STC Note 3	Bonanza 35 D1 thru D9068, Debonair 33 CD1-CD1234, C33A, E33A CE1-CE289	04-02209	---

LOWER CHEEK COWLING KITS

Description	Model Serial Numbers	Part No.	Price
Stainless Airloc #2-090 Replacement Kit- Lower Cheek Cowling TSOC148. Tools requires see T3. (Note 3)	Bonanza 35 D1 thru D6567, Debonair 33 CD1 thru CD350	04-02210	---
Stainless Airloc #5-080 Replacement Kit- Lower Cheek Cowling TSOC148. Tools required see T3. (Note 3)	Bonanza 35 D6568 thru D9068, 33 CD351 thru CD1304, CE-1 On, CJ26 On, 36 E1 thru E424	04-02213	---
Stainless Airloc #5-100 Replacement Kit- Lower Cheek Cowling TSOC148. See T3	Bonanza V35B D9069 On, 36TC EA1 On, 36 E425 On (Note 3)	04-02215	---
Stainless Phillips CLoc 27S Conversion Kit - Lower Cheek Cowling STC Note 4	Bonanza 35 D1 thru D6567, Debonair 33 CD1 thru CD350	04-02212	---
Stainless Phillips Cloc 40P Conversion Kit - Lower Cheek Cowling STC. See T2 Note 6	Bonanza 35 D6568 On, 33 CD351 On, CE-1 On, CJ26 On, 36 E1 On	04-02214	---
Stainless Slotted Cloc 40S Conversion Kit - Lower Cheek Cowling STC Note 6	Bonanza V35B D9069-On, 36TC EA1-On, 36 E425-On	04-02217	---

INSTALL TOOLS

Skybolt SK2018C Clamp Assembly. In The Box: 1 - Clamp, 2 - Sets of Screws ..... P/N 04-04088.....---
4P3-T26 - Used to install CLoc 4000 Series studs into grommets. SK-T26 - Two Tools in One - For all SK4002 Grommet R4G Retainers and SK2600-LW Retainers..... P/N 04-01990.....

SKYBOLT VANS RV COWLING FASTENER KITS

COWLING MOUNTING KITS

Kits Include SK215 and SK245 Dash 4 Series Receptacles and SK-RVFS1 Flanges

Skybolt Part No.	Aircraft	Description	Part No.	Price
RV4J-C1S	Vans RV4 - Complete Kit	38 Collared Slotted Fasteners	04-00399	---
RV4J-C1P	Vans RV4 - Complete Kit	Phillips	04-00403	---
RV4J-C1S-U	Vans RV4 - Upper (FW/Side) Kit	30 Collared Slotted Fasteners	04-02238	---
RV4J-C1P-U	Vans RV4 - Upper (FW/Side) Kit	Phillips	04-02041	---
RV4J-C1S-F	Vans RV4 - Complete Firewall Kit	18 Collared Slotted Fasteners	04-00405	---
RV4J-C1P-F	Vans RV4 - Complete Firewall Kit	Phillips	04-00406	---
RV4J-C1S-UF	Vans RV4 - Upper Firewall Kit	10 Collared Slotted Fasteners	04-02240	---
RV4J-C1P-UF	Vans RV4 - Upper Firewall Kit	Phillips	04-02042	---
RV4J-C1S-S	Vans RV4 - Side Kit	20 Collared Slotted Fasteners	04-00407	---
RV4J-C1P-S	Vans RV4 - Side Kit	Phillips	04-00408	---
RV4J-C1S-C	Vans RV4 - Cheek Cowl Kit	8 Collard Slotted Fasteners	04-02241	---
RV4J-C1P-C	Vans RV4 - Cheek Cowl Kit	Phillips	04-02242	---
RV8J-C1S	Vans RV8 - Complete Kit	50 Collared Slotted Fasteners	04-00409	---
RV8J-C1P	Vans RV8 - Complete Kit	Phillips	04-00410	---
RV8J-C1S-U	Vans RV8 - Upper (FW/Side) Kit	34 Collared Slotted Fasteners	04-02243	---
RV8J-C1P-U	Vans RV8 - Upper (FW/Side) Kit	Phillips	04-02043	---
RV8J-C1S-F	Vans RV8 - Complete Firewall Kit	30 Collared Slotted Fasteners	04-00411	---
RV8J-C1P-F	Vans RV8 - Complete Firewall Kit	Phillips	04-00412	---
RV8J-C1S-UF	Vans RV8 - Upper Firewall Kit	14 Collared Slotted Fasteners	04-02244	---
RV8J-C1P-UF	Vans RV8 - Upper Firewall Kit	Phillips	04-02044	---
RV8J-C1S-S	Vans RV8 - Side Kit	20 Collared Slotted Fasteners	04-00413	---
RV8J-C1P-S	Vans RV8 - Side Kit	Phillips	04-00415	---
RV679J-C1S	Vans RV6,7,9 - Complete Kit	52 Collared Slotted Fasteners	04-02245	---
RV679J-C1P	Vans RV6,7,9 - Complete Kit	Phillips	04-00418	---
RV679J-C1S-U	Vans RV6,7,9 - Upper (FW/Side) Kit	36 Collared Slotted Fasteners	04-00417	---
RV679J-C1P-U	Vans RV6,7,9 - Upper (FW/Side) Kit	Phillips	04-02045	---
RV679J-C1S-F	Vans RV6,7,9 - Complete Firewall Kit	32 Collared Slotted Fasteners	04-00419	---
RV679J-C1P-F	Vans RV6,7,9 - Complete Firewall Kit	Phillips	04-00420	---
RV679J-C1S-UF	Vans RV6,7,9 - Upper Firewall Kit	16 Collared Slotted Fasteners	04-02246	---
RV679J-C1P-UF	Vans RV6,7,9 - Upper Firewall Kit	Phillips	04-02046	---
RV679J-C1S-S	Vans RV6,7,9 - Side Kit	20 Collared Slotted Fasteners	04-00421	---
RV679J-C1P-S	Vans RV6,7,9 - Side Kit	Phillips	04-00422	---
RV10J-C1S	Vans RV10 - Complete Kit	62 Collared Slotted Fasteners	04-02247	---
RV10J-C1P	Vans RV10 - Complete Kit	Phillips	04-02157	---
RV10J-C1S-U	Vans RV10 - Upper (FW/Side) Kit	45 Collared Slotted Fasteners	04-02158	---
RV10J-C1P-U	Vans RV10 - Upper (FW/Side) Kit	Phillips	04-02154	---
RV10J-C1S-F	Vans RV10 - Complete Firewall Kit	36 Collared Slotted Fasteners	04-02159	---
RV10J-C1P-F	Vans RV10 - Complete Firewall Kit	Phillips	04-02156	---
RV10J-C1S-UF	Vans RV10 - Upper Firewall Kit	19 Collared Slotted Fasteners	04-02248	---
RV10J-C1P-UF	Vans RV10 - Upper Firewall Kit	Phillips	04-02155	---
RV10J-C1S-S	Vans RV10 - Side Kit	26 Collared Slotted Fasteners	04-02160	---
RV10J-C1P-S	Vans RV10 - Side Kit	Phillips	04-02161	---
LANCAIR-C1S	Lancair - Complete Kit	62 Collared Slotted Fasteners (Inc SK2800S)	04-00423	---
LANCAIR-C1P	Lancair - Complete Kit	Phillips (Inc SK28S3S around gear well)	04-00424	---
LANCAIR-C1S-U	Lancair - Upper Cowl Kit	45 Collared Slotted Fasteners	04-02249	---
LANCAIR-C1P-U	Lancair - Upper Cowl Kit	Phillips	04-02047	---
LANCAIR-C1S-F	Lancair - Firewall Kit	36 Collared Slotted Fasteners	04-00425	---
LANCAIR-C1P-F	Lancair - Firewall Kit	Phillips	04-02048	---
LANCAIR-C1S-UF	Lancair - Upper Firewall Kit	19 Collared Slotted Fasteners	04-02250	---
LANCAIR-C1P-UF	Lancair - Upper Firewall Kit	Phillips	04-02251	---
LANCAIR-C1S-S	Lancair - Side Kit	26 Collared Slotted Fasteners	04-02252	---
LANCAIR-C1P-S	Lancair - Side Kit	Phillips	04-02049	---
RV-OD1	Oil Door Winged Fasteners (Skytanium)	2 ea ZG2600-1W, SK213-2, Drill Template	04-02253	---
RV-OD2	Oil Door Phillips Fasteners (Stainless)	2 ea SK28S3-2S, SK213-2, Drill Template	04-02254	---
SK-RVFS1	Inter-Locking Flange (Patent Pending)	1 ea Flange	04-02255	---
SK-RVCI	Cleko Insert	1 ea Insert	04-02256	---
SK-4002-TS2	Installation Tool Set	SK-4P3 Pliers, T26 Tool, Unibit-1, Unibit-4	04-02257	---
4P3-T26	Stud Installation Pliers, Retainer Installation Tool		04-01990	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CLICK BOND FASTENERS

CLICK BOND FASTENERS

Click Bond Fasteners mount to surfaces with adhesive. They are assembled in a disposable, self-fixturing device of plastic that aligns and holds the fastener in position and under controlled pressure while the bonding material cures. After the installation is completed, the holding fixture is removed and the conventional attachment is made to the fastener. Bonded fasteners eliminate welding or drilling surfaces and result in reinforced substrate strength, leakproof and corrosion resistant attachments. Aircraft Spruce & Specialty Co. offers Click Bond Fasteners in convenient, pre-packaged kits as shown.

CABLE TIE MOUNT KIT

Each cable tie mount in this kit is pre-assembled in a temporary, easy-to-remove fixture that holds the cable tie mount in place and under pressure while the adhesive cures. No additional installation tools are needed. The kit includes four CB3019AA3N cable tie mounts with nylon ties (5" 40 lbs.), one adhesive packet, surface preparation materials, and installations.....P/N 04-06000 ..... **---**

FLOATING NUT-PLATE KIT

The Click Bond adhesive bonded floating nutplate has a metal base and is installed using a disposable, elastomeric fixture that temporarily holds the nutplate in place and under pressure while the adhesive cures. The fixture prevents fouling of the clearance hole. No additional tools are needed for making the nutplate attachment. This fastener meets or exceeds the standards set by MIL-N-25027 for push-out, torque-out, and cycle life. Bonded nutplates eliminate composite damaging rivets, reinforce the structure, and reduce installation time. The kit includes four CB2009A3S floating nutplates (10-32) with aluminum baseplate, one adhesive packet, surface preparation materials, and instructions .....P/N 04-06005 ..... **---/ea.**

CB 200 ACRYLIC ADHESIVE

A high strength, two part adhesive. 3.5 gram package. One package is usually sufficient to do five of any Click Bond fasteners.

P/N 04-06040 ..... **---**

CB92 ADHESIVE MIX KIT

The CB92 Acrylic adhesive & prep material kit includes adhesive package (3.5 grams) mixing plate, mixing stick, abrasive pad, solvent wipe package, and instructions.

P/N 04-02059 ..... **---**

CLICK BOND CB904 - DISPOSABLE ABRASIVE PAD

Abrasive pad used to prepare substrate for bonding fasteners. Abrade substrate where part is to be installed. Remove surface oxides, top coat, and primer to expose bare metal. Always solvent wipe to remove abrasion residue prior to bonding part to substrate.....P/N 04-04076 ..... **---**

CLICK BOND CB911 - SOLVENT WIPE

Pre-saturated wipe contains Click Bond recommended solvent blend optimized for surface preparation of metallic and composite substrates and Click Bond adhesive-bonded fasteners. CB911 solvent blend has perfect balance of aggressiveness, material compatibility, and flashoff time to deliver optimal surface cleanliness.....P/N 04-04077 ..... **---**

CLICK BOND CB106 - ADHESIVE DISPENSER MIXING TIP

Recommended for use in conjunction with Click Bond adhesive cartridges, the CB106 static mixing tip provides thorough mixing of adhesive components during dispensing, ensuring optimal adhesive consistency and bond strength. Designed to twist and lock onto the end of the Click Bond adhesive cartridge, Click Bond mixing tips provide not only proper interleaving of pre-ratioed components but additionally pre-phasing to ensure optimum mix uniformity.....P/N 04-04075 ..... **---**

STUD KITS

Click Bond Fasteners mount to surfaces with adhesive. They are assembled in a disposable, self-fixturing device of plastic that aligns and holds the fastener in position and under controlled pressure while the bonding material cures. After the installation is completed, the holding fixture is removed and the conventional attachment is made to the fastener. Bonded fasteners eliminate welding or drilling surfaces and result in reinforced substrate strength, leakproof and corrosion resistant attachments. We offer Click Bond Fasteners in convenient, pre-packaged kits as shown.

Metal Small Base Stud Kit.....P/N 04-06020 ..... **---**
Metal Large Base Stud Kit .....P/N 04-06025 ..... **---**
Fiberglass Base Stud Kit.....P/N 04-06030 ..... **---**

CLICK BOND ADHESIVE DISPENSERS SLIDES

OEM #	Description	Application	Part No.	Price
CB11	Adhesive Dispenser Slide, 1:1 Ratio	For use with CB100 Adhesive Dispenser used with CB250-50 & CB309-50 Adhesive Cartridges	04-04070	---
CB21	Adhesive Dispenser Slide, 2:1 Ratio	For use with CB100 Adhesive Dispenser used with CB301-50 & CB359-50 Adhesive Cartridges	04-04071	---
CB41	Adhesive Dispenser Slide, 4:1 Ratio	For use with CB100 Adhesive Dispenser used with CB394-43	04-04072	---
CB81	Adhesive Dispenser Slide, 8:1 Ratio	For use with CB100 Adhesive Dispenser used with CB200-40, CB420-50 & CB420-50E Adhesive Cartridges	04-04073	---

CLICK BOND CB100 - ADHESIVE DISPENSER

Manual adhesive dispenser designed for use with Click Bond two-component adhesive cartridges. The dispenser handle is paired with specific slides for proper dispensing of materials of various component ratios

P/N 04-04074 ..... **---**

CLICK BOND CB200 ADHESIVE

CB200 acrylic structural adhesive is a two part thixotropic paste adhesive capable of bonding a wide variety of metals, engineering thermoplastics, and composites. CB200 cures quickly at room temperature and exhibits excellent environmental and chemical resistance. CB200 adhesive replaces welding, riveting, and other mechanical fastening methods. CB200 is packaged in an 8:1 cartridge and is recommended for installation of Click Bond adhesive bonded fasteners.....P/N 04-03598 ..... **---**

HA

AN FITTINGS

The aircraft fittings shown on the following pages conform to current AN and MS specifications. We stock aluminum, brass and/or steel fittings. Fittings not regularly stocked can be special ordered. Order by Part Number. Example: AN840-8D.

AN804
TEE, FLARED TUBE WITH BULKHEAD ON RUN

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
12	12D	3/4	1-1/16-12	---	---

AN814
PLUG AND BLEEDER, SCREW THREAD

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
12	12D	3/4	1-1/16-12	---	---

AN818
NUT, COUPLING

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
12	12D	3/4	1-1/16-12	---	---

SS AN818-4J.....P/N AN818-4J .....---
SS AN818-6J.....P/N AN818-6J .....---

AN822 (MS20822)
ELBOW, FLARED TUBE AND PIPE THREAD, 90°

Size No.		Tube	Pipe	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	1/8	---	---
3	3D	3/16	1/8	---	---
4	4D	1/4	1/8	---	---
4-4	4-4D	1/4	1/4	---	---
-	5-4D	5/16	1/4	---	---
5	5D	5/16	1/8	---	---
6	6D	3/8	1/4	---	---
6-2	6-2D	3/8	1/8	---	---
6-6	6-6D	3/8	3/8	---	---
8	8D	1/2	3/8	---	---
10	10D	5/8	1/2	---	---
12	12D	3/4	3/4	---	---

AN806
FLARED TUBE PLUG

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---

AN815
UNION, FLARED TUBE

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
12	12D	3/4	1-1/16-12	---	---

SS AN815-4J.....P/N AN815-4J .....---
SS AN815-6J .....P/N AN815-6J.....---

AN819 (MS20819)
SLEEVE, COUPLING

Size No.		Tube	Price Each	
Steel	Alum.	O.D.	Steel	Alum.
2	2D	1/8	---	---
3	3D	3/16	---	---
4	4D	1/4	---	---
5	5D	5/16	---	---
6	6D	3/8	---	---
8	8D	1/2	---	---
10	10D	5/8	---	---
12	12D	3/4	---	---

AN823 (MS20823)
ELBOW, FLARED TUBE AND PIPE THREAD, 45°

Size No.		Tube	Pipe	Price Each	
Steel	Alum.	O.D.	Thread	Steel	Alum.
2	2D	1/8	1/8	---	---
3	3D	3/16	1/8	---	---
4	4D	1/4	1/8	---	---
5	5D	5/16	1/8	---	---
6	6D	3/8	1/4	---	---
8	8D	1/2	3/8	---	---
10	10D	5/8	1/2	---	---
12	12D	3/4	3/4	---	---

AN807
ADAPTER HOSE TO UNIVERSAL

Size No.		Hose	Thread	Price Each	
Brass	Alum.	I.D.	Size	Brass	Alum.
4	4D	1/4	7/16-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---

AN816
NIPPLE, FLARED TUBE AND PIPE THREAD

Size No.		Tube	Pipe	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	1/8	---	---
3	3D	3/16	1/8	---	---
4	4D	1/4	1/8	---	---
4-4	4-4D	1/4	1/4	---	---
5	5D	5/16	1/8	---	---
6	6D	3/8	1/4	---	---
6-2	6-2D	3/8	1/8	---	---
6-6	6-6D	3/8	3/8	---	---
7	7D	1/2	1/4	---	---
8	8D	1/2	3/8	---	---
10	10D	5/8	1/2	---	---
12	12D	3/4	3/4	---	---

SS AN816-4J.....P/N AN816-4J .....---

AN821
ELBOW, FLARED TUBE, 90°

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
--	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
--	12D	3/4	1-1/16-12	---	---
--	16D	1	1-5/16-12	---	---

New Surplus AN821-5D.....P/N 04-03303 ..... ---

AN824
TEE, FLARED TUBE

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
12	12D	3/4	1-1/16-12	---	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AN825 (MS20825)
TEE, FLARED TUBE WITH PIPE THREAD ON SIDE

Size No.		Tube	Pipe	Price Each	
Steel	Alum.	O.D.	Thread	Steel	Alum.
2	2D	1/8	1/8	---	---
3	3D	3/16	1/8	---	---
4	4D	1/4	1/8	---	---
5	5D	5/16	1/8	---	---
6	6D	3/8	1/4	---	---
8	8D	1/2	3/8	---	---
10	10D	5/8	1/2	---	---
12	12D	3/4	3/4	---	---
16	16D	1	5/16	---	---

New Surplus AN825-10D ... P/N 04-02226.....---

AN832
UNION, FLARED TUBE, BULKHEAD & UNIVERSAL

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
12	12D	3/4	1-1/16-12	---	---

SS AN832-3J.....P/N AN832-3J .....---
SS AN832-4J.....P/N AN832-4J .....---
SS AN832-6J.....P/N AN832-6J .....---

AN837
ELBOW, FLARED TUBE, BULKHEAD AND UNIVERSAL, 45°

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
12	12D	3/4	1-1/16-12	---	---

AN842
HOSE ELBOW, PIPE THREAD, 90°

Size No.		Hose	Pipe	Price Each	
Brass	Alum.	I.D.	Thread	Brass	Alum.
4	4D	1/4	1/8	---	---
6	6D	3/8	1/4	---	---
8	8D	1/2	3/8	---	---
10	10D	5/8	1/2	---	---
12	12D	3/4	3/4	---	---

AN894
FLARED TUBE REDUCER AND EXPANDERS

Fitting No.	Price
AN894-6-5D	---
AN894-D6-4	---

AN826 (MS20826)
TEE TUBE WITH PIPE THREAD ON RUN

Size No.		Tube	Pipe	Price Each	
Steel	Alum.	O.D.	Thread	Steel	Alum.
3	3D	3/16	1/8	---	---
4	4D	1/4	1/8	---	---
5	5D	5/16	1/8	---	---
6	6D	3/8	1/4	---	---
8	8D	1/2	3/8	---	---
10	10D	5/8	1/2	---	---
12	12D	3/4	3/4	---	---

AN833
ELBOW, FLARED TUBE BULKHEAD AND UNIVERSAL, 90°

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
12	12D	3/4	1-1/16-12	---	---

AN838
ELBOW, BULKHEAD & HOSE TO UNIVERSAL, 90°

Size No.		Hose	Thread	Price Each	
Brass	Alum.	I.D.	Size	Brass	Alum.
4	4D	1/4	7/16-20	---	---
6	6D	3/8	9/16-18	---	---

AN844
HOSE ELBOW, PIPE THREAD, 45°

Size No.		Hose	Pipe	Price Each	
Brass	Alum.	I.D.	Thread	Brass	Alum.
4	4D	1/4	1/8	---	---
6	6D	3/8	1/4	---	---
8	8D	1/2	3/8	---	---
10	10D	5/8	1/2	---	---
12	12D	3/4	3/4	---	---

AN910
COUPLING PIPE THREAD

Size No.		Thread	Price Each	
Brass	Alum.	Size	Brass	Alum.
1	1D	1/8	---	---
2	2D	1/4	---	---
3	3D	3/8	---	---
4	4D	1/2	---	---
6	6D	3/4	---	---

AN911 NIPPLE
PIPE THREAD

Size No.		Pipe	Price Each	
Brass	Alum.	Thread	Brass	Alum.
1	1D	1/8	---	---
2	2D	1/4	---	---
3	3D	3/8	---	---
4	4D	1/2	---	---
6	6D	3/4	---	---

AN827
CROSS, FLARED TUBE

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
12	12D	3/4	1-1/16-12	---	---

AN834
TEE, FLARED T BE, BULKHEAD & UNIVERSAL

Size No.		Tube	Thread	Price Each	
Steel	Alum.	O.D.	Size	Steel	Alum.
2	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
12	12D	3/4	1-1/16-12	---	---

New Surplus AN834-6.....P/N 04-02273.....---

AN840
HOSE NIPPLE, PIPE THREAD

Size No.		Hose	Pipe	Price Each	
Brass	Alum.	I.D.	Size	Brass	Alum.
4	4D	1/4	1/8	---	---
6	6D	3/8	1/4	---	---
8	8D	1/2	3/8	---	---
---	10D	5/8	1/2	---	---
12	12D	3/4	3/4	---	---

AN848
ELBOW, HOSE BULKHEAD, 90°

Size No.		Hose	Thread	Price Each	
Brass	Alum.	I.D.	Size	Brass	Alum.
---	4D	1/4	7/16-20	---	---
---	6D	3/8	9/16-18	---	---
---	8D	1/2	3/4-16	---	---

AN912
BUSHING PIPE THREAD REDUCER

Size No. Alum.	Pipe Size	Price Ea.	Size No Alum	Pipe Size	Price Ea.
1D	1/4-1/8	---	8D	3/4-3/8	---
2D	3/8-1/4	---	9D	3/4-1/4	---
3D	3/8-1/8	---	10D	1-3/4	---
4D	1/2-3/8	---	11D	1-1/2	- - -
5D	1/2-1/4	---	12D	1-3/8	---
6D	1/2-1/8	---	13D	11/4-3/4	- - -
7D	3/4-1/2	---			

New Surplus AN912-11D ..... P/N 04-02271.....---

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AN FITTINGS

AN913 (MS20913)
PLUG SQUARE HEAD, PIPE THREAD

Size No.			Pipe	Price Each		
Brass	Steel	Alum.	Thread	Brass	Steel	Alum.
1	1S	1D	1/8	---	---	---
2	2S	2D	1/4	---	---	---
3	3S	3D	3/8	---	---	---
4	4S	4D	1/2	---	---	---
6	6S	6D	3/4	---	---	---

AN914
ELBOW, INTERNAL AND EXTERNAL PIPE THREAD, 90°

Size No.		Pipe	Price Each	
Brass	Alum.	Thread	Brass	Alum.
1	1D	1/8	---	---
2	2D	1/4	---	---
3	3D	3/8	---	---
4	4D	1/2	---	---

AN915
ELBOW, INTERNAL AND EXTERNAL PIPE THREAD, 45°

Size No.		Pipe	Price	
Brass	Alum.	Thread	Brass	Alum.
1	1D	1/8	---	---
2	2D	1/4	---	---
3	3D	3/8	---	---
6	6D	3/4	---	---

New Surplus AN915-6D ..... P/N 04-02233.....---

AN916
ELBOW, INTERNAL PIPE THREAD, 90°

Size No.		Pipe	Price	
Brass	Alum.	Thread	Brass	Alum.
1	1D	1/8	---	---
2	2D	1/4	---	---
3	3D	3/8	---	---
4	4D	1/2	---	---
6	6D	3/4	---	---

New Surplus AN916-3 Brass... P/N 04-03012.....---

AN917
TEE, INTERNAL, PIPE THREAD

Size No.		Pipe	Price	
Brass	Alum.	Thread	Brass	Alum.
1	1D	1/8	---	---
2	2D	1/4	---	---
3	3D	3/8	---	---
4	4D	1/2	---	---
6	6D	3/4	---	---

AN919
REDUCER, EXTERNAL THREAD

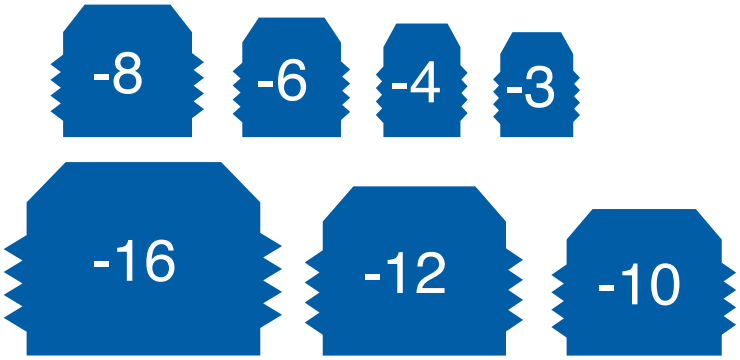
Size No.		Tube O.D.	Price	
Steel	Alum.		Steel	Alum.
0	0D	3/16-1/8	---	---
1	1D	1/4-1/8	---	---
2	2D	1/4-3/16	---	---
3	3D	5/16-1/4	---	---
4	4D	3/8-1/8	---	---
5	5D	3/8-3/16	---	---
6	6D	3/8-1/4	---	---
7	7D	3/8-5/16	---	---
8	8D	1/2-1/8	---	---
9	9D	1/2-3/16	---	---
10	10D	1/2-1/4	---	---
11	11D	1/2-5/16	---	---
12	12D	1/2-3/8	---	---
19	19D	3/4-1/2	---	---

AN924
NUT, FLARED TUBE, BULKHEAD AND UNIVERSAL FITTING

Size No.		Tube O.D.	Thread Size	Price	
Steel Black	Alum. Blue			Steel	Alum.
2	2D	1/8	5/16-24	---	---
3	3D	3/16	3/8-24	---	---
4	4D	1/4	7/16-20	---	---
5	5D	5/16	1/2-20	---	---
6	6D	3/8	9/16-18	---	---
8	8D	1/2	3/4-16	---	---
10	10D	5/8	7/8-14	---	---
12	12D	3/4	1-1/16-12	---	---

AN929
CAP, FLARED TUBE FITTING

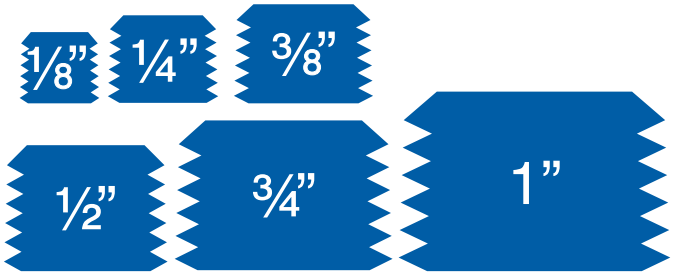
Size No.	Tube O.D.	Thread Size	Price
2	1/8	5/16-24	---
3	3/16	3/8-24	---
4	1/4	7/16-20	---
5	5/16	1/2-20	---
6	3/8	9/16-18	---
8	1/2	3/4-16	---
10	5/8	7/8-14	---
12	3/4	1-1/16-12	---
16	1	1-5/16-12	---



AN Size	Metal Tube O.D.	Thread Size
2	1/8	5/16-24 SAE
3	3/16	3/8-24 SAE
4	1/4	7/16-20 SAE
5	5/16	1/2-20 SAE
6	3/8	9/16-18 SAE
8	1/2	3/4-16 SAE
10	5/8	7/8-14 SAE
12	3/4	1-1/16-12 SAE
16	1”	1-5/16-12 SAE

NPT FITTING SIZES

Pipe Thread Size	Threads per inch	Theoretical I.D. of Fitting	Closest AN Fitting Size	Nominal Size	Actual Diameter
1/16”	27	1/16”			
1/8”	27	1/8”	4	1/8”	.405
1/4”	18	1/4”	6	1/4”	.540
3/8”	18	3/8”	8	3/8”	.675
1/2”	14	1/2”	10	1/2”	.840
3/4”	14	3/4”	12		
1”	11.5	1”	16		
1-1/4”	11.5	1-1/4”	20		
1-1/2”	11.5	1-1/2”	24		
2”	11.5	2”			



DIAGRAMS MAY NOT BE ACCURATE AND SHOULD NOT BE USED FOR EXACT SIZING. FOR REFERENCE ONLY

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PHENIX FITTINGS

ALUMINUM MANIFOLD FITTINGS

ORDERING INFORMATION

Basic part number on all fittings is 04-00XXX, complete the part number by filling in the last 3 digits after selecting the fitting you need according to the details below. Example: 04-00102.

First Code Number - Determines the style of the fitting.

- **-1:** One port in the end with two ports out, 90° cross drilled with one port per side. 3 ports total. Two Mounting Holes.
- **-2:** One port in the end with four ports out, 90° cross drilled with two ports per side. 5 ports total. Two Mounting Holes.
- **-3:** One port in the end with six ports out, 90° cross drilled with three ports per side. 7 ports total. Four Mounting Holes.
- **-4:** One port in the end with eight ports out, 90° cross drilled with four ports per side. 9 ports total. Four Mounting Holes.
- **-5:** One port in the end with four ports out, 90° drilling with four ports on one side only. 5 ports total. Two Mounting Holes.

Second Code Number - Determines the style of porting.

- **-0:** All the ports are the same.
- **-1:** Inlet port is one size larger than outlet ports.
- **-2:** Inlet port is two sizes larger than outlet ports.

Third Code Number - Determines the inlet port size.

- **-2:** 1/8-27 taper pipe thread (NPT)
- **-4:** 1/4-18 taper pipe thread (NPT)
- **-6:** 3/8-18 taper pipe thread (NPT)
- **-8:** 1/2-14 taper pipe thread (NPT)

In the example above - 04-00102, this would be a 1/8 NPT inlet with two outlets of the same size.

Ex.-04-00326, this would have a 3/8 NPT inlet w/six 1/8 NPT outlets.

Our aluminum manifold fittings are a bolt-on design with taper pipe threads. These fittings are designed to provide a convenient means of plumbing multiple hoses from and/or to one source with the fitting being bolted to a supporting structure. This design will eliminate Adel clamps at the juncture of the hoses and eliminate additional tee type fittings when more than two hoses are to be connected to one source. Applications include brake reservoir lines, static system, suction systems, fuel systems, air line pigs, smoke systems, and more. Not for use on oxygen systems or pressures over 150 psi.

Part No.	Price
04-00102	---
04-00104	---
04-00106	---
04-00108	---
04-00114	---
04-00116	---
04-00118	---
04-00126	---
04-00128	---
04-00202	---
04-00204	---
04-00206	---
04-00214	---

Part No.	Price
04-21600	---
04-21800	---
04-00226	---
04-00228	---
04-00302	---
04-00304	---
04-00306	---
04-00308	---
04-00314	---
04-00316	---
04-00318	---
04-00326	---
04-00328	---

Part No.	Price
04-00402	---
04-00404	---
04-00414	---
04-00416	---
04-00426	---
04-00428	---
04-00502	---
04-00504	---
04-00514	---
04-00516	---
04-00526	---
04-00528	---

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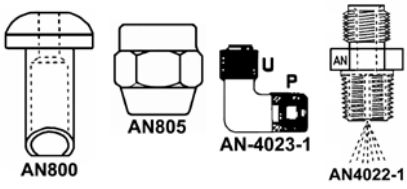
PRIMER FITTINGS



P=1/8 PIPE THREADS U=5/16-32 UNION THREADS

AN No.	Description	Thread	Price
AN780-2	Union Nipple	1/8x5/16-32	---
AN800-2	Union Cone	--	---
AN805-2	Union Nut	5/16-32	---
AN4022-1	Discharge Nipple	1/8x5/16-32	---
AN4023-1	Discharge Elbow New Surplus	1/8x5/16-32	---

New Surplus Primer Elbow Fitting.....P/N 04-02162 .....---

Light weight aluminum adapters by Phenix Industries are designed for leak-proof sealing with any manufacturers hose ends. Made in USA.

PHENIX FEMALE TO FLARE EXPANDERS AND REDUCERS

Phenix Part No.	Female / Male	Part No.	Price
C46-4	-4 / -6	04-02102	---
C68-4	-6 / -8	04-02101	---
C810-4	-8 / 10	04-02103	---
C1012-4	-10 / -12	04-02104	---
C1216-4	-12 / -16	04-02105	---

PHENIX FEMALE TO FLARE EXPANDERS AND REDUCERS - BLUE

Phenix Part No.	Female / Male	Part No.	Price
C431-4	-4 / -3	04-02094	---
C64-4	-6 / -4	04-02095	---
C86-4	-8 / -6	04-02096	---
C106-4	-10 / -6	04-02097	---
C108-4	-10 / -8	04-02098	---
C1210-4	-12 / -10	04-02099	---

PHENIX 90 DEGREE SWIVEL FEMALE TO MALE - BLUE

Phenix Part No.	Female / Male	Part No.	Price
C0647-4	-6 / -6	04-02113	---
C0847-4	-8 / -8	04-02114	---

PHENIX 45° SWIVEL FORGED ELBOW FEMALE TO MALE - BLUE

Phenix Part No.	Size	Part No.	Price
C0345-4	-3	04-04082	---
C0445-4	-4	04-04083	---
C0645-4	-6	04-04051	---
C0845-4	-8	04-04084	---
C01045-4	-10	04-04085	---
C01245-4	-12	04-04086	---

PHENIX STRAIGHT SWIVEL FEMALE TO MALE NPT - BLUE

Phenix Part No.	AN	NPT	Part No.	Price
C1451-4	-4	1/8"	04-02139	---
C1651-4	-6	1/4"	04-02140	---
C1652-4	-6	3/8"	04-02141	---
C1851-4	-8	3/8"	04-02142	---
C1852-4	-8	1/2"	04-02143	---
C11051-4	-10	1/2"	04-02144	---

PHENIX SWIVEL COUPLER STRAIGHT - BLUE

Phenix Part No.	Female / Male	Part No.	Price
C6-4	-6	04-02145	---
C8-4	-8	04-02146	---
C10-4	-10	04-02147	---
C12-4	-12	04-02148	---
C1210-4	-12 / -10	04-02099	---

PHENIX 45 DEGREE SWIVEL COUPLER - BLUE

Phenix Part No.	Female / Male	Part No.	Price
C645-4	-6 / -6	04-02135	---
C845-4	-8 / -8	04-02136	---
C1405-2	-10 / -10	04-03815	---
C1245-2	-12 / -10	04-03818	---

PHENIX 90° SWIVEL COUPLER - BLUE AND RED

Phenix Part No.	Size	Part No.	Price
C690-2	-6	04-03802	---
C1090-2	-10	04-03801	---
C1290-2	-12	04-03819	---

PHENIX COMPRESSION FITTINGS

Phenix compression swivel hose ends are constructed from lightweight 6061 aluminum and designed for smooth flow, easy assembly, and longer life. All elbow ends are built from one-piece billet tube construction, avoiding leakable braze joints. O-ring seals allow 360 degree rotation. 37 degree AN flare assures leak proof sealing surface, eliminating need for taping. Compatible with all AN adapter fittings. Made in USA.

PHENIX STRAIGHT PUSH-LOK - RED/BLUE

Phenix Part No.	Size	Part No.	Price
J2400-2	AN-4	04-02120	---
J2600-2	AN-6	04-02121	---
J3800-2	AN-8	04-03804	---
J31000-2	AN-10	04-03805	---
J31200-2	AN-12	04-03806	---

PHENIX 90° PUSH-LOK - RED/BLUE

Phenix Part No.	Size	Part No.	Price
J3490-2	AN-4	04-03812	---
J3690-2	AN-6	04-03799	---
J2890-2	AN-8	04-02132	---
J21290-2	AN-12	04-02134	---

PHENIX COMPRESSION SWIVEL HOSE END STRAIGHT

Size	Color	Part No.	Price
AN-4	Blue/red	04-03602	---
AN-6	Blue/red	04-03603	---
AN-8	Blue/red	04-03604	---
AN-10	Blue/red	04-03605	---
AN-12	Blue/red	04-03606	---
AN-4	Black	04-03629	---
AN-6	Black	04-03630	---
AN-8	Black	04-03631	---
AN-10	Black	04-03632	---
AN-12	Black	04-03633	---

PHENIX COMPRESSION SWIVEL HOSE END - 150°

Color	Size	Part No.	Price
Blue/Red	AN-6	04-03621	---
Blue/Red	AN-8	04-03622	---
Blue/Red	AN-10	04-03623	---
Blue/Red	AN-12	04-03624	---
Black	AN-6	04-03648	---
Black	AN-8	04-03649	---
Black	AN-10	04-03650	---
Black	AN-12	04-03651	---

PHENIX PUSH-ON SWIVEL HOSE END - 45°

Size	Color	Part No.	Price
AN-8	Blue/red	04-02127	---
AN-12	Blue/red	04-03820	---

PHENIX COMPRESSION SWIVEL HOSE END - 45°

Color	Size	Part No.	Price
Blue/Red	AN-4	04-03607	---
Blue/Red	AN-6	04-03608	---
Blue/Red	AN-8	04-03609	---
Blue/Red	AN-10	04-03610	---
Blue/Red	AN-12	04-03611	---
Black	AN-4	04-03634	---
Black	AN-6	04-03635	---
Black	AN-8	04-03636	---
Black	AN-10	04-03637	---
Black	AN-12	04-03638	---

PHENIX COMPRESSION SWIVEL HOSE END - 90°

Color	Size	Part No.	Price
Blue/Red	AN-4	04-03612	---
Blue/Red	AN-6	04-03613	---
Blue/Red	AN-8	04-03614	---
Blue/Red	AN-10	04-03615	---
Blue/Red	AN-12	04-03616	---
Black	AN-4	04-03639	---
Black	AN-6	04-03640	---
Black	AN-8	04-03641	---
Black	AN-10	04-03642	---
Black	AN-12	04-03643	---

PHENIX COMPRESSION SWIVEL HOSE END - 120°

Color	Size	Part No.	Price
Blue/Red	AN-6	04-03617	---
Blue/Red	AN-8	04-03618	---
Blue/Red	AN-10	04-03619	---
Blue/Red	AN-12	04-03620	---
Black	AN-6	04-03644	---
Black	AN-8	04-03645	---
Black	AN-10	04-03646	---
Black	AN-12	04-03647	---

PHENIX COMPRESSION SWIVEL HOSE END - 180°

Color	Size	Part No.	Price
Blue/Red	AN-6	04-03625	---
Blue/Red	AN-8	04-03626	---
Blue/Red	AN-10	04-03627	---
Blue/Red	AN-12	04-03628	---
Black	AN-6	04-03652	---
Black	AN-8	04-03653	---
Black	AN-10	04-03654	---
Black	AN-12	04-03655	---

SEE OUR WEBSITE FOR MORE PHENIX FITTINGS

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PHENIX BLACK BRAIDED HOSE

A lightweight alternative to standard double braided stainless hose. This hose is constructed of a high grade CPE (Chlorinated Polyethylene) inner core surrounded by lightweight stainless center braid and a tightly woven black nylon outer braid. This combination creates superior strength and is lightweight. This hose is not recommended for high vacuum applications with using an inner spring support. Quantities are sold by the foot.

Model	Color	Part No.	Price
AN-4	Black	04-03661	---
AN-6	Black	04-03662	---
AN-8	Black	04-03663	---
AN-10	Black	04-03664	---

PHENIX DOUBLE BRAIDED STAINLESS STEEL HOSE

Phenix Hose products have been tested through independent ASTM laboratories to meet all SAE-30R7 standards. These stainless braided hose products were designed for easier assembly by the end user, plus limited wire frays and spreads which occur after cutting. Hoses are engineered to be dimensionally consistent and easier to assemble with re-usable fittings. The enhanced curing process of the hose uniformly applies the glue and adhesion of glue between the stainless braid and the CPE inner core. This dramatically reduces the frays and spreads associated with cut stainless braided hose products. Operating temperatures are from -40 degrees to +350 degrees F and deliver hydrocarbon and alcohol based fuels, motor oils, and coolant. Quantities are sold by the foot. For AN adapter fittings.
Made in USA

Model	Color	Part No.	Price
AN-4	Stainless Steel	04-03656	---
AN-6	Stainless Steel	04-03657	---
AN-8	Stainless Steel	04-03658	---
AN-10	Stainless Steel	04-03659	---
AN-12	Stainless Steel	04-03660	---

PHENIX PUSH ON HOSES

Designed for reduced weight and increased flexibility, Phenix Push-On Hose features a Class A high oil resistant nitrile inner tube with a reinforcing two spiral aramid fiber and a nitrile/PVC cover resistant to oil and petroleum based products. Our Push-On hose is compatible with a wide range of oils and fuels, however is NOT recommended for use with unleaded gasoline. DO NOT USE with brake fluids or power steering fluids. Operates at 250 PSI and temperature range -30 degrees to +160 degrees F. Use with Push-Lok swivel hose ends.

Key Features:

- Operates at 250 PSI
- Temperature Range: -30 Deg to +160 Deg f
- Compatible with Push-Lok Swivel Hose Ends

Model	Color	Part No.	Price
K204-3	Black	04-03786	---
K206-3	Black	04-03787	---
K208-3	Black	04-03788	---
K210-3	Black	04-03789	---
K212-3	Black	04-03790	---

DEL 37° FITTING SEALS

DEL fitting seals are designed to eliminate leakage due to scratches on the sealing surface, improper torquing, or poor finishes on tube ends, in high or low pressure applications. For use with AN, MS, and JIC 37° flared fittings, DEL fitting seals also reduce tube flare cracking by reducing torque needed, eliminating nose damage to the fitting, and allow reuse of hardware. Approved by NASA, SAE, Air Force, Army, Navy, and major aerospace contractors.

Aluminum			
Part Number	**Tube Size OD**	**Fitting Dash Size**	**Price Each**
04-05002	1/8	2	---
04-05003	3/16	3	---
04-05004	1/4	4	---
04-05006	3/8	6	---
04-05008	1/2	8	---
04-05010	5/8	10	---
04-05012	3/4	12	---
04-05016	1	16	---
Copper			
08-13471	1/4”	4	---
08-13472	3/8”	6	---

PARKER STAT-O-SEAL NAS1523

The NAS 1523 Stat-O-Seal is designed with a pre-calculated interference factor built into the teardrop shaped elastomeric seal designed for applications requiring NAS 1523 conformance. The cross-section free height of the rubber is greater than the metal retainer, providing the proper compression without squeezing the seal beyond its elastic limit.

NAS 1523 Stat-O-Seal Features:
Parker NAS 1523 Stat-O-Seals are one-piece, molded-in-place seals with the rubber sealing element mechanically and/or chemically bonded to the metal retainer. Parker’s “Splined and Coined” mechanical bonding feature is used on many 600, NAS1523 and 610 series sizes. This feature ensures a positive attachment of the rubber to the retainer, eliminating missing or loose seal elements associated with bonded seals. Stat-O-Seals are designed to seal beneath the head of the fastener as shown for both internal and external pressure and vacuum systems.

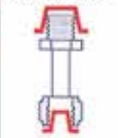
NAS 1523 Stat-O-Seals offer users long and reliable service, a high degree of reusability and easy assembly.

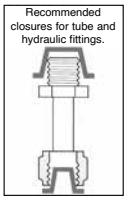
Description	Fastener Size	I.D.	O.D.	Part Number	Price
NAS1523-4B	1/4"	.240	.500	05-14983	---
NAS1523-8B	1/2"	.490	.875	05-12626	---

SEE OUR WEBSITE FOR MORE PHENIX FITTINGS

CAPLUGS

T SERIES CAPLUGS (NON-THREADED)





Tapered Caplugs can be used as either caps or plugs. Because they are tapered in design and made from highly pliable (or flexible) Polyethylene, they can be applied to fit snugly and are readily removable, whether used for capping or plugging. Especially recommended for use on MIL Std. and SAE-type tube and hydraulic fittings and for threaded external and internal NPT fittings.

Part No.	Dash No.	Tubing O.D.	Thread	Caplugs As Plugs	Caplugs As Caps	Price Each
04-00045	-2	1/8	5/16-24	1	2	---
04-00046	-3	3/16	3/8-24	2	3-X	---
04-00047	-4	1/4	7/16-20	3	4-X	---
04-00048	-5	5/16	1/2-20	4	5	---
04-00049	-6	3/8	9/16-18	5	6-X	---
04-00050	-8	1/2	3/4-16	8	9-X	---
04-00051	-10	5/8	7/8-14	10	11-X	---
04-00052	-12	3/4	1 1/16-12	12-X	13-X	---
04-00053	-16	1	1 5/16-12	14-X	15-X	---

HA

SC SERIES CAPLUGS (NON-THREADED)

Series SC sleeve caps are designed to fit outside diameters of tubing sizes listed with a snug friction grip. Available in 57 different O.D.'s and lengths. Ideal for capping and protecting both threaded and non-threaded tubing or rod ends. The also make excellent masks, for painting, plating or grit-blasting operations.

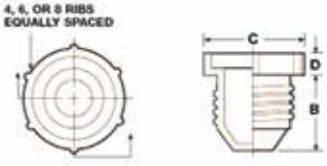
Part No.	Caplug No.	A To fit tube O.D.		B Inside Length		Price Ea.
		Inches	mm	Inches	mm	
04-00054	SC-1/8	1/8	3.18	.59	14.99	---
04-00055	SC-3/16-5	3/16	4.76	.35	8.89	---
04-00056	SC-3/16-16	3/16	4.76	1.00	25.40	---
04-00057	SC-1/4-4	1/4	6.35	.22	5.59	---
04-00058	SC-1/4-14	1/4	6.35	.88	22.35	---
04-00059	SC-5/16	5/16	7.94	.88	22.35	---
04-00060	SC-3/8	3/8	9.53	.88	22.35	---
04-00061	SC-7/16-14	7/16	11.11	.88	22.35	---
04-00062	SC-1/2-8	1/2	12.70	.50	12.70	---
04-00063	SC-1/2-14	1/2	12.70	.88	22.35	---
04-00064	SC-9/16-9	9/16	14.29	.56	14.22	---
04-00065	SC-9/16-14	9/16	14.29	.88	22.35	---
04-00066	SC-5/8	5/8	15.88	.88	22.35	---
04-00067	SC-3/4	3/4	19.05	.88	22.35	---
04-00068	SC-7/8	7/8	22.23	.88	22.35	---
04-00069	SC-1	1	25.40	1.00	25.40	---

CD SERIES CAPLUGS (THREADED)

Knurled for ease of application, Series CD caps seal flared JIC fittings exceptionally well against dirt and moisture, as well as for masking during dipping, painting and plating.

Part No.	Caplug No.	To Cap Normal Tubing Size	To fit Thread	Dim A		No. of Knurls	Price Each
				In	mm		
04-00032	CD-3	3/16"	3/8-24	.47	11.94	4	---
04-00033	CD-4	1/4"	7/16-20	.47	11.94	4	---
04-00034	CD-5	5/16"	1/2-20	.47	11.94	6	---
04-00035	CD-6	3/8"	9/16-18	.53	13.46	6	---
04-00036	CD-6A	3/8"	5/8-18	.53	13.46	6	---
04-00037	CD-8	1/2"	3/4-16	.57	14.48	6	---
04-00038	CD-10	5/8"	7/8-14	.68	17.27	6	---
04-00039	CD-11	-	1-14	.78	19.81	8	---
04-00040	CD-12	3/4"	1 1/16-12	.75	19.05	8	---

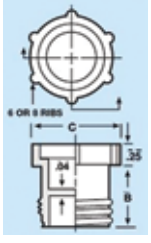
PD SERIES CAPLUGS (THREADED)



Series PD Plugs, designed for use on flared JIC fittings, air knurled for ease of application. They will seal low pressure requirements with light finger tightening. PD plugs can be used to seal 37° flare fittings without gaskets.

Part No.	Caplug No.	To Plug Nominal Tubing Size	To fit Thread	Dimensions B in	B mm	C in	C mm	D in	D mm	Price Each
04-03007	PD-20	1/8	5/16-24	.44	11.18	.44	11.18	.18	4.57	---
04-00023	PD-30	3/16	3/8-24	.46	11.68	.50	12.70	.18	4.57	---
04-00024	PD-40	1/4	7/16-20	.53	13.46	.62	15.75	.19	4.83	---
04-00025	PD-50	5/16	1/2-20	.53	13.46	.68	17.27	.25	6.35	---
04-00026	PD-60	3/8	9/16-18	.50	12.70	.81	20.57	.25	6.35	---
04-00027	PD-65	3/8	5/8-18	.59	14.99	.81	20.57	.25	6.35	---
04-00028	PD-80	1/2	3/4-16	.75	19.05	.94	23.88	.25	6.35	---
04-00029	PD-100	5/8	7/8-14	.87	22.10	1.06	26.93	.25	6.35	---
04-03526	PD-120	3/4	1 1/16-12	.89	22.61	1.25	31.75	.25	6.35	---
04-00030	PD-121	3/4	1-1/16-14	1.12	28.45	1.31	33.28	.25	6.35	---
04-04063	PD-HF-32 LDPE	2	2-1/2-12	1.31	33.27	3.09	78.49	.38	9.65	---
04-00031	PD-160	1	1-5/16-12	.93	23.62	1.50	38.10	.25	6.35	---

PDE SERIES CAP PLUGS (THREADED)



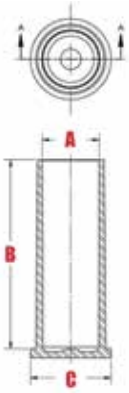
PDE Series threaded plugs are designed to fit tube and nut assemblies interchangeably. Knurled to aid with finger tightening installation and removal.

Part No.	Caplug No.	To Fit Thread	Dimensions B in	B mm	C in	C mm	Price Each
04-04061	PDE-4	7/16-20	0.40	10.16	0.56	14.22	---
04-04062	PDE-6	9/16-18	0.48	12.192	0.68	17.27	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CAPLUGS

RCL SERIES CAPLUGS (UNTHREADED)

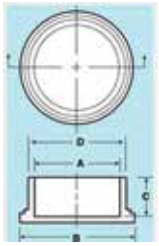


Series RCL caps are ideal for protecting threaded or smooth cylindrical surfaces. Originally designed for use on hydraulic double threaded bulkhead fittings, they are especially suitable where greater longitudinal protection is required.

Part No.	Caplug No. (formerly) (series B-203)	A	B		C		Price Each
		To Cap Thread Size In.	Inside Length				
			In	mm	in	mm	
04-00079	RCL-2	5/16	1.24	31.50	.46	11.68	---
04-00080	RCL-3	3/8	1.24	31.50	.52	13.21	---
04-00009	RCL-4	7/16	1.33	33.78	.58	14.73	---
04-00011	RCL-5	1/2	1.33	33.78	.64	16.26	---
04-00012	RCL-6	9/16	1.41	35.82	.70	17.78	---
04-00013	RCL-8	3/4	1.56	39.63	.88	22.35	---
04-00014	RCL-9	M-20 (.787)	1.56	39.63	.91	23.11	---
04-00015	RCL-10	7/8	1.70	43.18	1.01	25.66	---
04-00016	RCL-12	11/16	1.89	48.01	1.19	30.23	---

HA

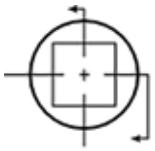
EC SERIES CAPLUGS (UNTHREADED)

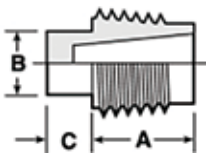


Static dissipative EC Series Caplugs provide positive ESD and physical protection for all common sizes of threaded electrical and electronic connectors. Also suitable for protecting non-threaded bayonet-type connectors.

Part No.	Caplug No.	A-Caps Nominal Thread Size In.	Dimensions				Price Each
			B		C		
			In	mm	in	mm	
04-00070	EC-4	1/4	.48	12.19	.50	12.70	---
04-00071	EC-5	5/16	.55	13.97	.56	14.22	---
04-00072	EC-6	3/8	.62	15.75	.50	12.70	---
04-00073	EC-8	1/2	.74	18.79	.50	12.70	---
04-00074	EC-9	9/16	.78	19.81	.44	11.18	---
04-00075	EC-10	5/8	.84	21.34	.50	12.70	---
04-00076	EC-12	3/4	.97	24.63	.50	12.70	---
04-00077	EC-14	7/8	1.12	28.44	.50	12.70	---
04-00078	EC-16	1	1.22	30.98	.50	12.70	---

P SERIES CAPLUGS (THREADED)

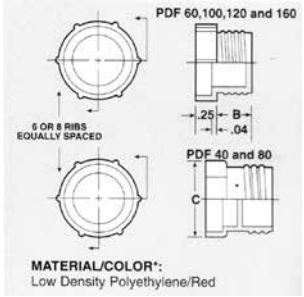




Series P pipe pluge are square head. They are molded in high density polyethylene and are ideal for keeping moisture, dirt and other contaminants from NPT-threaded ports.

Part No.	Caplug No.	To Fit	Dimensions						Price Each
			A		B		C		
			in	mm	in	mm	in	mm	
04-00041	P-18	1/8" NPT	.44	11.18	.28	7.11	-	-	---
04-00042	P-28	1/4" NPT	.50	12.70	.37	9.40	-	-	---
04-00043	P-38	3/8" NPT	.56	14.22	.44	11.18	-	-	---
04-00044	P-48	1/2" NPT	.59	14.99	.56	14.22	-	-	---

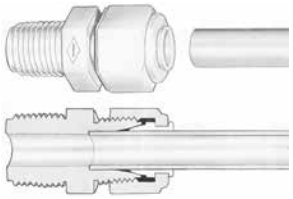
PDF SERIES CAPLUGS (THREADED)



Series PDF plugs are designed for easy mechanical or hand installation on flat-faced O-ring fittings.

Part No.	Caplug No.	To Plug Nominal Tubing Size	To Fit Thread Size	Dimensions				Price Each
				B		C		
				in	mm	in	mm	
04-00018	PDF-60	3/8"	11/16-16	.44	11.18	.87	22.10	---
04-00019	PDF-80	1/2"	13/16-16	.50	12.70	.94	23.88	---
04-00020	PDF-100	5/8"	1-14	.59	14.99	1.16	29.47	---
04-00021	PDF-120	3/4"	13/16-12	.63	16.00	1.33	33.78	---
04-00022	PDF-160	1"	17/16-12	.75	19.05	1.63	41.40	---

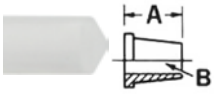
NYLO-SEAL FITTINGS



Nylo-Seal tube fittings are exceptionally strong. The bodies, made of nylon, are stronger than machined fittings of similar composition. They are furnished complete with nut/sleeve assemblies, made of acetal copolymer. Since the sleeve snaps into and is retained by the nut there is no fumbling for a loose sleeve. Just insert tube into the fitting and tighten the nut 2 to 2-1/2 full turns.

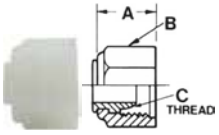
Note: The most frequently used combination of tube and pipe sizes are 1/4" Tube x 1/8" Pipe and 3/8" Tube x1/4" Pipe.

259-P CAP, 259-N INSERT (NYLON)



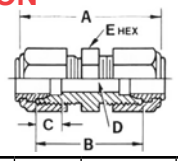
Tube O.D.	A	D	Part No.	Price
1/4	3/8	1/8	259-N04	---
3/8	3/8	1/8	259-N06	---
1/4	7/16	13/64	259-P04	---
3/8	7/16	13/64	259-P06	---

261-N NUT AND SLEEVE ASSEMBLY



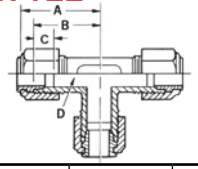
Tube O.D.	Thread	A	C	Part No.	Price
1/4	7/16-20	15/32	9/16	261-N04	---
3/8	5/8-20	37/64	3/4	261-N06	---

262-N UNION



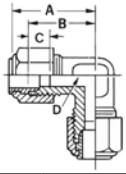
Tube O.D.	A	B	C	D	E	Part No.	Price
1/4	1-25/64	63/64	5/8	7/32	15/32	262-N04	---
3/8	1-21/32	1-1/4	13/16	23/64	19/32	262-N06	---

264-N UNION TEE



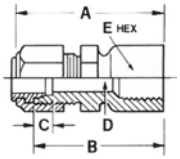
Tube O.D.	A	B	D	E	Part No.	Price
1/4	1-9/64	47/64	7/32	15/32	264-N04	---
3/8	1-11/64	31/31	11/32	19/32	264-N06	---

265-N ELBOW UNION



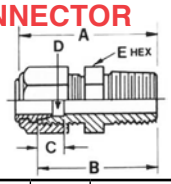
Tube O.D.	A	B	D	E	Part No.	Price
1/4	1-1/64	13/16	7/32	3/8	265-N04	---
3/8	1-5/32	15/16	11/32	7/16	265-N06	---

266-N FEMALE CONNECTOR



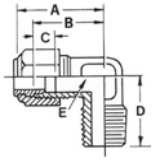
Tube O.D.	Pipe Thread	A	B	C	D	E	Part No.	Price
1/4	1/8	1-9/64	15/16	9/16	7/32	9/16	266-N04X02	---
1/4	1/4	1-5/16	1-7/64	11/16	7/32	47/64	266-N04X04	---
3/8	1/4	1-27/64	1-7/32	11/16	11/32	3/4	266-N06X04	---
3/8	3/8	1-27/64	1-7/32	13/16	11/32	3/4	266-N06X06	---

268-N MALE CONNECTOR



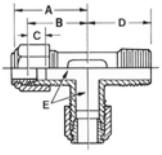
Tube O.D.	Pipe Thread	A	B	C	D	E	Part No.	Price
1/4	1/8	1-13/64	1	5/8	15/64	15/32	268-N04X02	---
1/4	1/4	1-25/64	1-3/16	5/8	15/64	11/16	268-N04X04	---
3/8	1/4	1-17/32	1-21/64	13/16	5/16	19/32	268-N06X04	---
3/8	3/8	1-19/32	1-25/64	13/16	11/32	19/32	268-N06X06	---

269-N MALE ELBOW



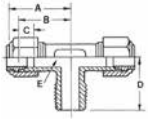
Tube O.D.	Pipe Thread	A	B	D	E	F	Part No.	Price
1/4	1/8	1-1/64	13/16	7/32	3/8	27/32	269-N04x02	---
1/4	1/4	1-1/64	13/16	13/32	3/8	1-1/32	269-N04x04	---
3/8	1/4	1-9/64	15/16	5/16	7/16	1-1/32	269-N06x04	---
3/8	3/8	1-9/64	15/16	11/32	7/16	1-3/32	269-N06x06	---

271-N MALE RUN TEE



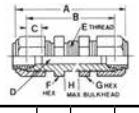
Tube O.D.	Pipe Thread	A	B	D	E	F	Part No.	Price
1/4	1/8	59/64	21/32	7/32	15/32	3/4	271-N04X02	---
1/4	1/4	59/64	13/32	7/32	15/32	29/32	271-N04X04	---
3/8	1/4	1-5/32	61/64	5/16	19/32	1-1/16	271-N06X04	---
3/8	3/8	1-3/16	61/64	23/64	19/32	1-7/64	271-N06X06	---

272-N MALE BRANCH TEE



Tube O.D.	Pipe Thread	A	B	D	E	F	Part No.	Price
1/4	1/8	15/16	47/64	7/32	15/32	3/4	272-N04X02	---
1/4	1/4	15/16	47/64	7/32	15/32	13/16	272-N04X04	---
3/8	1/4	1-11/64	31/32	5/16	19/32	1-1/16	272-N06X04	---
3/8	3/8	1-11/64	31/32	23/64	19/32	1-7/64	272-N06X06	---

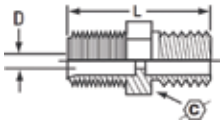
282-N BULKHEAD UNION



Tube O.D.	Pipe Thread	A	B	C	D	E	F	G	Part No.	Price
1/4	7/16-20	1-57/64	1-31/64	5/8	7/32	15/32	5/8	5/16	282-N04	---
3/8	5/8-20	2-1/4	1-53/64	13/16	11/32	19/32	7/8	3/8	282-N06	---

***Use 259-N inserts with all Poly-Flo tubing connections. Not needed with Nylo-Seal tubing.**

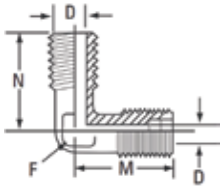
MALE NPT NYLON COMPRESSION CONNECTOR



Specifications:
- Connection Type A x B: Tube x Male NPT
- Nylon
- FDA, NSF
- Type: Compression Connector
- 220 PSI

Tube O.D.	Male Pipe Thread	OEM Part Number	L	D	C	Part Number	Price
1/4	1/8	1568x4G	0.99	0.26	5/8	12-05471	---
1/4	1/4	1568x4x4G	1.17	0.28	5/8	12-05472	---
3/8	1/4	1568x6G	1.30	0.38	13/16	12-05473	---
3/8	3/8	1568x6x6G	1.34	0.38	13/16	12-05474	---

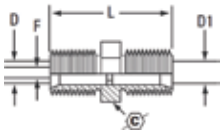
MALE NPT NYLON COMPRESSION ELBOW



Specifications:
- Connection Type A x B: Tube x Male NPT
- Nylon
- SAE
- Gripper Style Nut
- Compression Elbow
- 220 PSI

Tube O.D.	Male Pipe Thread	OEM Part Number	M	N	D	D1	Across Flats (F)	Part Number	Price
1/4	1/8	1569x4G	0.81	0.81	0.22	0.25	3/8	12-05475	---
1/4	1/4	1569x4x4G	0.81	1.02	0.22	0.28	3/8	12-05476	---
3/8	1/4	1569x6G	0.94	1.03	0.30	0.31	37/64	12-05477	---
3/8	3/8	1569x6x6G	0.94	1.09	0.34	0.38	9/16	12-05478	---

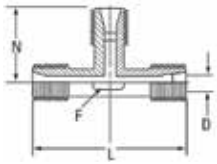
NYLON GRIPPER STYLE NUT COMPRESSION UNION CONNECTOR



Specifications:
- For cold and hot water applications
- Connection Type A x B: Tube x Tube
- Nylon • FDA, NSF • Gripper Style Nut
- -40°F - 200°F
- Compression Union • 220 PSI

Tube O.D.	OEM Part Number	L	F	C	Part Number	Price
1/4	1562x4G	0.98	0.23	5/8	12-05460	---
3/8	1562x6	1.23	0.30	13/16	12-05464	---

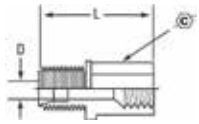
NYLON UNION TEE COMPRESSION CONNECTOR



Specifications:
• For Weatherhead plastic tubing • Connection Type A x B x C: Tube x Tube x Tube • Nylon • Gripper Style Nut • -40°F - 200°F • Type: Union Tee • Working Pressure: 50 PSI

Tube O.D.	OEM Part Number	L	D	N	Across Flats(F)	Part Number	Price
1/4	1564x4G	1.44	0.22	0.72	23/64	12-05461	---
3/8	1564x6G	1.91	0.30	0.97	17/32	12-05465	---

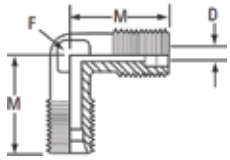
FEMALE NPT NYLON COMPRESSION CONNECTOR



Specifications:
• Connection Type A x B: Tube x emale NPT • Nylon • FDA, NSF • Gripper Style Nut • Compression Connector • 220 PSI

Tube O.D.	Female Pipe Thread	OEM Part Number	L	D	C	Part Number	Price
1/4	1/8	1566x4G	0.92	0.23	9/16	12-05462	---
3/8	1/4	1566x6G	1.20	0.36	11/16	12-05469	---

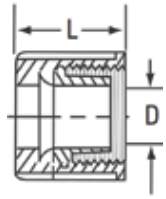
UNION ELBOW NYLON COMPRESSION CONNECTOR



Specifications: • Angle: 90° • Connection Type A x B: Tube x Tube • Nylon • SAE • Gripper Style Nut • Compression Union Elbow • 220 PSI

Tube O.D.	OEM Part No.	M	D	Across Flats(F)	Part No.	Price
1/4	1565X4G	0.81	0.22	3/8	12-05466	---
3/8	1565X6G	0.94	0.34	9/16	12-05467	---

NYLON GRIPPER STYLE NUT COMPRESSION UNION CONNECTOR



Specifications: • Connection Type A x B: Tube x Tube • Nylon • FDA, NSF • Gripper Style Nut • -40°F - 200°F • Compression Union • 220 PSI

Tube O.D.	OEM Part Number	C	L	D	Part No.	Price
1/4	1561X4G	5/8	0.69	0.26	12-05459	---
3/8	1561X6G	13/16	0.73	0.38	12-05463	---

HA

HOSE FITTINGS – PIPE FITTINGS

HOSE & TUBING FITTINGS

Adapter Tube to Pipe | Elbow Tube to Pipe | Tee, Tube to Pipe (Pipe on Side) | Tee, Tube on Three Sides | Connector Tube to Tube

Hose and tubing Insert Fittings are available in high density black polyethylene or white Nylon. Use polyethylene fittings with Tygon, nylon or soft rubber tubing to assemble low pressure instrument lines such as airspeed pitot and static lines. Use Nylon fittings in gravity-feed fuel lines and engine breather lines.

Fitting Type	Size	Polyethylene		Nylon	
		Part No.	Price Each	Part No.	Price Each
Adapter Tube To Pipe	3/16Tx1/8P	0700-150	---	0701-150	---
	1/4Tx1/8P	0700-153	---	0701-153	---
	5/16Tx1/8P	0700-156	---	0701T-15	---
	3/8Tx1/8P	0700-158	---	0701-158	---
	1/4Tx1/4P	0700-110	---	0701-110	---
	3/8Tx1/4P	0700-162	---	0701-162	---
Elbow Tube To Pipe	1/4Tx1/8P	0710-153	---	0711-153	---
	3/8Tx1/8P	0710-158	---	0711-158	---
	1/4Tx1/4P	0710-110	---	0711-110	---
	3/8Tx1/4P	0710-162	---	0711-162	---
Tube To Tube	1/4Tx1/4T	0710-015	---	0711-015	---
	3/8Tx3/8T	0710-020	---	0711-020	---
Reducing Connector	1/4Px1/8P	0725-153	---	0726-153	---
	3/8Px1/8P	0725-161	---	0726-161	---
Tee Tube To Pipe	1/4Tx1/4Tx1/8P	0715-153	---	0716-153	---
	3/8Tx3/8Tx1/4P	0715-162	---	0716-162	---
	1/4Tx1/4Tx1/4P	0715-110	---	0716-110	---
Tee All Tube	3/16Tx3/16Tx3/16T	0715-011	---	0716-011	---
	1/4Tx1/4Tx1/4T	0715-015	---	0716-015	---
	3/8Tx3/8Tx3/8T	0715-020	---	0716-020	---
Connector Tube To Tube	1/4Tx1/4T	0705-015	---	0706-015	---
	3/8Tx3/8T	0705-020	---	0706-020	---

Fitting Type	Size	Part No.	Price
TEE Tube to pipe HDPE Natural	3/8x3/8x1/4	0715-162	---

TEE CONNECTOR

For pressure switches with 1/8" male pipe threads. For 1/4" O.D oil pressure lines P/N 10-04846 ..... ---

HERBIE CLIP HOSE CLAMPS

The Herbie Clip hose clamp is the original double toothed (double row of teeth) ratchet clamp. This makes the Herbie clip twice as strong (up to 200psi depending on hose work and spigot) as similar hose clamps with a single row of teeth. The Herbie Clip hose clamp combines its high strength with other key features such as: non-corrosive and resistant to many chemicals, simple to install can be fitted before or after the hose is in place, minimum leak path, lightweight, easy to use (no sharp edges to cut the operators), fully compliant with ROHS, UL listed (nylon 6.6.)

Clip Size	Min Dia. (in.)	Max Dia. (in.)	Part No.	Price
A	.22	.26	05-02698	---
AA	.26	.31	05-02699	---
B	.31	.36	05-02701	---
C	.40	.47	05-02702	---
CC	.44	.51	05-02695	---
D	.47	.54	05-02703	---
E	.52	.59	05-02704	---
F	.59	.67	05-02705	---
G	.67	.75	05-02706	---
H	.71	.81	05-02696	---
J	.80	.91	05-02707	---
K	.87	.98	05-02708	---

HERBIE CLIP HOSE CLAMP TOOLS

INSTALLATION TOOL

Recommended for medium volume use. Fits sizes A to K.
P/N 05-02709 ..... ---

REMOVAL TOOL

It is easy to install and remove using a choice of manual.
P/N 05-02710 ..... ---

WEATHERHEAD BRASS PIPE FITTINGS

These brass elbows and tees provide flexibility in the routing of lines which terminate in male pipe threads.

45° Street Elbow | Street Elbow | Street Tee | Male Branch Tee | Tube Insert

45° STREET ELBOW

Part Number	Pipe Thread	Price Each	Part Number	Pipe Thread	Price Each	Part Number	Pipe Thread	Price Each
3350x2	1/8	---	3350x4	1/4	---	3350x6	3/8	---

90° STREET ELBOW

Part Number	Pipe Thread	Price Each	Part Number	Pipe Thread	Price Each	Part Number	Pipe Thread	Price Each
3400x2	1/8	---	3400x4	1/4	---	3400x6	3/8	---

MALE BRANCH TEE

Part Number	Pipe Thread	Price Each	Part Number	Pipe Thread	Price Each	Part Number	Pipe Thread	Price Each
3600x2	1/8	---	3600x4	1/4	---	3600x6	3/8	---

STREET TEE

Part Number	Pipe Thread	Price Each	Part Number	Pipe Thread	Price Each	Part Number	Pipe Thread	Price Each
3750x2	1/8	---	3750x4	1/4	---	3750x6	3/8	---

WEATHERHEAD BRASS FITTINGS

Part No.	Description	Size	Price Each
2030-4	Tube Insert*	1/8ODx3/32ID	---
3220x4x2	Bushing	1/8FPx1/4MP	---
6100x2	Nut	1/8T	---
6200x2	Male Connector	1/8Txl/8P	---
66x2	Female Connector	1/8Txl/8P	---

*** Used for Long-EZ brake fittings.**

WEATHERHEAD BARB-TITE REUSABLE HOSE ENDS

MALE PIPE

MALEPIPE RIGID - 90° ELBOW

Designed for use with hoses with maximum working pressure up to 250 PSI. Easy to assemble and disassemble.

Part No.	Description	Hose I.D.	Pipe Size	Cut-off Factor	Price Each
10006B-104	---	3/8"	1/4"	1-1/2	---
10008B-108	Straight Pipe	1/2"	1/2"	1.19	---
10006B-C02	90° Pipe	3/8"	1/8"	3/8	---
10006B-C04	---	3/8"	1/4"	3/8	---

BRASS TUBE FITTINGS

Description	Part No.	Price
Brass Tube Fitting 3/8" Pipe x 3/8"	04-00833	---
Brass Tube Fitting 1/4" Pipe x 3/8"	04-00834	---

ALL TUBE COMPRESSION TEE FITTING

Includes nuts and compression ferrules for use on 3/16.
P/N 15-06175 ..... ---

BRASS COMPRESSION NUT 3/16"

P/N 15-04806 ..... ---

STRAIGHT TUBE TO MALE NPT ADAPTER

Straight Tube To Male NPT Adapter. Includes compression ferrule for use with 3/16 nylon brake tubing..... P/N 15-05526 ..... ---

90 DEGREE COMPRESSION TO MALE NPT ELBOW

90 Degree Compression To Male NPT Elbow. Includes compression ferrule for use with 3/16 nylon brake tubing P/N 15-05525 ..... ---

TANK FITTING NPT

Hose Barb X Male Pipe. 1/4"x1/4".... P/N 15-06132 ..... ---

FUEL LINE AND PRIMER LINE T FITTING

1/4 x 1/4 x 1/8. Made of delrin ..... P/N 10-01596 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BRASS POLY-FLO FITTINGS

Poly-Flo Flareless tube fittings consist of a brass body, nut and sleeves. Use with PolyFlo, PVC or Nylaflow pressure tubing. The Poly-Flo fittings have the same configuration as Nylo-Seal fittings of the same basic part number.

261UB - NUT WITH SLEEVE			
Tube O.D.	Thread Size	Part Number	Price Each
1/8	5/16-24	261UB-02	---
3/16	3/8-24	261UB-03	---
1/4	3/8-24	261UB-04	---

262P - UNION			
Tube O.D.	Thread Size	Part Number	Price Each
1/8	--	262P-02	---
3/16	--	262P-03	---
1/4	--	262P-04	---

264P - UNION TEE			
Tube O.D.	Thread Size	Part Number	Price Each
3/16	--	264P-03	---
1/4	--	264P-04	---

266P - FEMALE CONNECTOR			
Tube O.D.	Pipe Thread	Part Number	Price Each
1/8	1/8	266P-02x02	---
3/16	1/8	266P-03x02	---

268P - MALE CONNECTOR			
Tube O.D.	Pipe Thread	Part Number	Price Each
1/8	1/8	268P-02x02	---
3/16	1/8	268P-03x02	---
1/4	1/8	268P-04x02	---

269P - MALE ELBOW			
Tube O.D.	Pipe Thread	Part Number	Price Each
3/16	1/8	269P-03x02	---
1/4	1/8	269P-04x02	---

270P - FEMALE ELBOW			
Tube O.D.	Pipe Thread	Part Number	Price Each
3/16	1/8	270P-03x02	---

272P - MALE BRANCH TEE			
Tube O.D.	Pipe Thread	Part Number	Price Each
3/16	1/8	272P-03X02	---
1/4	1/8	272P-04X02	---

SAE FITTINGS

Brass SAE fittings for NSR tubing.

05-12243 05-12244 05-12245

SAE Nut And Sleeve Assemblies For NSR Tubing				
Description	Tube O.D.	Thread Size	Part No.	Price
61SM-02	1/8"	5/16-24	05-12243	---
61SM-03	3/16"	3/8-24	05-12244	---
61SM-04	1/4"	7/16-24	05-12245	---

05-12246 05-12247 05-12248

SAE Union Fittings For NSR Tubing				
Description	Tube O.D.	Thread Size	Part No.	Price
62SM-02	1/8"	--	05-12246	---
62SM-03	3/16"	--	05-12247	---
62SM-04	1/4"	--	05-12248	---

05-12249 05-12250 05-12251

SAE Female Connectors For NSR Tubing				
Description	Tube O.D.	Thread Size	Part No.	Price
66SM-02 X 02	1/8"	1/8" NPT	05-12249	---
66SM-03 X 02	3/16"	1/8" NPT	05-12250	---
66SM-04 X 02	1/4"	1/8" NPT	05-12251	---

05-12252 05-12253 05-12254

SAE Female Connectors For NSK Tubing				
Description	Tube O.D.	Thread Size	Part No.	Price
64SM-02	1/8"	--	05-12252	---
64SM-03	3/16"	--	05-12253	---
64SM-04	1/4"	--	05-12254	---

05-12255 05-12256 05-12257

SAE Male Connectors For NSR Tubing				
Description	Tube O.D.	Thread Size	Part No.	Price
68SM-02 X 02	1/8"	1/8" NPT	05-12255	---
68SM-03 X 02	3/16"	1/8" NPT	05-12256	---
68SM-04 X 02	1/4"	1/8" NPT	05-12257	---

05-12258 05-12259 05-12260

SAE Male Elbows For NSR Tubing				
Description	Tube O.D.	Thread Size	Part No.	Price
69SM-02 X 02	1/8"	1/8" NPT	05-12258	---
69SM-03 X 02	3/16"	1/8" NPT	05-12259	---
69SM-04 X 02	1/4"	1/8" NPT	05-12260	---

MS21919 DG & WDG CLAMPS

Loop-type cushioned aluminum alloy clamp. Cushion (non-fuel resistant) is bonded to inner surface and edges of clamp. WDG clamps are cushion wedge type. Cushion assures tight fit and eliminates vibration, thus preventing line abrasion.

Tube Dia.	Dash No.	Price Each	Dash No.	Price Each	Tube Dia.	Dash No.	Price Each	Dash No.	Price Each
1/8	DG2	---	WDG2	---	1-5/16	DG21	---	WDG21	---
3/16	DG3	---	WDG3	---	1-3/8	DG22	---	WDG22	---
1/4	DG4	---	WDG4	---	1-7/16	DG23	---	WDG23	---
5/16	DG5	---	WDG5	---	1-1/2	DG24	---	WDG24	---
3/8	DG6	---	WDG6	---	1-9/16	DG25	---	WDG25	---
7/16	DG7	---	WDG7	---	1-5/8	DG26	---	WDG26	---
1/2	DG8	---	WDG8	---	1-3/4	DG28	---	WDG28	---
9/16	DG9	---	WDG9	---	1-7/8	DG30	---		
5/8	DG10	---	WDG10	---	1-15/16	DG31	---		
11/16	DG11	---	WDG11	---	2	DG32	---		
3/4	DG12	---	WDG12	---	2-1/16	DG33	---		
13/16	DG13	---	WDG13	---	2-1/8	DG34	---		
7/8	DG14	---	WDG14	---	2-1/4	DG36	---		
15/16	DG15	---	WDG15	---	2-3/8	DG38	---		
1	DG16	---	WDG16	---	2-1/2	DG40	---		
1-1/16	DG17	---	WDG17	---	2-5/8	DG42	---		
1-1/8	DG18	---	WDG18	---	2-3/4	DG44	---		
1-3/16	DG19	---	WDG19	---	2-7/8	DG46	---		
1-1/4	DG20	---	WDG20	---	3	DG48	---	WDG48	---
					3-1/8	DG50	---		

MS21919-WH CLAMPS

Band Material: Low Carbon Steel
Cushion Material: Silicone - For elevated temperature usage in phosphate ester based fluid and other synthetic fluid contaminated areas. Unaffected by ozone. Not resistant to petroleum based fluids. Color is white.

Part No.	Tube Dia.	Price
MS21919-WH2	1/8”	---
MS21919-WH3	3/16”	---
MS21919-WH4	1/4”	---
MS21919-WH5	5/16”	---
MS21919-WH6	3/8”	---
MS21919-WH7	7/16”	---
MS21919-WH8	1/2”	---
MS21919-WH9	9/16”	---
MS21919-WH10	5/8”	---
MS21919-WH11	11/16”	---
MS21919-WH12	3/4”	---
MS21919-WH13	13/16”	---
MS21919-WH14	7/8”	---
MS21919-WH15	15/16”	---
MS21919-WH16	1”	---
MS21919-WH18	1-1/8”	---
MS21919-WH20	1-1/4”	---

MS21919 WCH CLAMPS

Band Material: Corrosion Resistant Steel
Cushion Material: Silicone - For elevated temperature usage in phosphate ester based fluid and other synthetic fluid contaminated areas. Unaffected by ozone. Not resistant to petroleum based fluids. Color is white.

Part Number	Tube Dia.	Price
MS21919-WCH2	1/8”	---
MS21919-WCH3	3/16”	---
MS21919-WCH4	1/4”	---
MS21919-WCH5	5/16”	---
MS21919-WCH6	3/8”	---
MS21919-WCH7	7/16”	---
MS21919-WCH8	1/2”	---
MS21919-WCH9	9/16”	---
MS21919-WCH10	5/8”	---
MS21919-WCH11	11/16”	---
MS21919-WCH12	3/4”	---
MS21919-WCH13	13/16”	---
MS21919-WCH14	7/8”	---
MS21919-WCH15	15/16”	---
MS21919-WCH17	1 1/16”	---
MS21919-WCH18	1 1/8”	---
MS21919-WCH20	1 1/4”	---
MS21919-WCH22	1 3/8”	---

MS21919-WCJ CLAMPS

Band Material: Corrosion Resistant Steel
Cushion Material: Fluorosilicone - For elevated temperature usage in petroleum based fluid contaminated areas. Unaffected by ozone. Not resistant to phosphate ester based fluids. Color is solid blue.

Part No.	Tube Dia.	Price
MS21919-WCJ2	1/8”	---
MS21919-WCJ3	3/16”	---
MS21919-WCJ4	1/4”	---
MS21919-WCJ5	5/16”	---
MS21919-WCJ6	3/8”	---
MS21919-WCJ7	7/16”	---
MS21919-WCJ8	1/2”	---
MS21919-WCJ9	9/16”	---
MS21919-WCJ10	5/8”	---
MS21919-WCJ12	3/4”	---
MS21919-WCJ14	7/8”	---
MS21919-WCJ16	1”	---
MS21919-WCJ20	1-1/4”	---

OETIKER SS MECHANICAL INTERLOCK CLAMPS

Oetiker’s core skills are reflected in three tried-and-tested product groups. A wide range of clamps and rings for connections and mountings of all types. In-house-produced pincers for optimum installation of our assortment of clamps. And practical Quick Connectors for fast plug connections without tools. • Mechanical interlock: for pre-coated material Clamp ear: fast and simple installation, visible deformation provides evidence of proper closure • Dimple: increases clamping force, spring-effect compensates for changes in diameter due to thermal • Specially formed strip edges: reduced risk of damage to parts being clamped • Material: 155 Stainless Steel, Material no. 1.4301/UNS S30400

Description	Part No.	Price
Oetiker 256 Stainless Steel MI-Clamp 25.6mm (1”) open position / 22.8mm pinched position	15-05730	---
Oetiker 226 Stainless Steel MI-Clamp 22.6mm (7/8”) open position / 19.8mm pinched position	15-05731	---
Oetiker 105 Stainless Steel MI-Clamp 10.5mm open position / 8.9mm pinched position	15-08416	---
Oetiker 133 Stainless Steel MI-Clamp 13.3mm open position / 11.4mm pinched position	15-08417	---
Oetiker 145 Stainless Steel MI-Clamp 14.5mm open position / 12.6mm pinched position	15-08418	---
Oetiker 170 Stainless Steel MI-Clamp 17.0mmopen position / 15.1mm pinched position	15-08419	---
Oetiker 198 Stainless Steel MI-Clamp 19.8mm (3/4”) open position / 17.0mm pinched position	15-08420	---

OETIKER STEPLESS SCREW CLAMPS

Oetiker Stepless Screw Clamps feature a unique tongue-in-groove design to provide a perfect 360° seal. Their narrow band width of 9 mm is designed to fit grooved objects. They are ideal where specialty clamping needs have to be met and the application calls for a smooth inner surface such as on flexible duct sleeves. The tongue-in-groove design provides that “stepless” complete seal. Manufactured using 300 AISI series stainless steel.

P/N	Clamping O.D. Range Inches	Price Each	P/N	Clamping O.D. Range Inches	Price Each
028-9	13/16” - 1-1/8”	---	090-9	3-5/16” - 3-1/2”	---
031-9	15/16” - 1-1/4”	---	095-9	3-1/2” - 3-3/4”	---
032-9	1-1/16” - 1-1/4”	---	100-9	3-11/16” - 3-15/16”	---
036-9	1-1/4” - 1-7/16”	---	105-9	3-15/16” - 4-1/8”	---
040-9	1-3/8” - 1-9/16”	---	110-9	4-1/8” - 4-5/16”	---
045-9	1-9/16” - 1-3/4”	---	115-9	4-5/16” - 4-1/2”	---
050-9	1-3/4” - 2”	---	120-9	4-1/2” - 4-11/16”	---
065-9	2-5/16” - 2-9/16”	---	135-9	5-1/16” - 5-5/16”	---
070-9	2-9/16” - 2-3/4”	---	140-9	5-1/2” - 5-11/16”	---
075-9	2-3/4” - 3”	---	145-9	5-11/16” - 5-7/8”	---
080-9	2-15/16” - 3-1/8”	---	150-9	5-7/8” - 6-1/16”	---
085-9	3-1/8” - 3-5/16”	---	160-9	6-1/16” - 6-1/4”	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

200 HOSE CLAMPS

Aero-Seal stainless steel clamps are for industrial & aircraft applications. This tangential worm-screw type clamp is for use on fuel, oil, air & coolant lines. The worm drive provides uniform clamping pressure without distorting hose. Tighten slotted head with screwdriver.

QS200 Dash No.	Dia. Range (In.)		Price Each	QS200 Dash No.	Dia. Range (In)		Price Each
	Min.	Max.			Min.	Max.	
-06H	7/16	25/32	---	-44H	2-5/16	3-1/4	---
-08H	1/2	29/32	---	-48H	2-9/16	3-1/2	---
-10H	9/16	1-1/16	---	-52H	2-13/16	3-3/4	---
-12H	11/16	1-1/4	---	-56H	3-1/16	4	---
-16H	13/16	1-1/2	---	-60H	3-5/16	4-1/4	---
-20H	13/16	1-3/4	---	-64H	3-9/16	4-1/2	---
-24H	1-1/16	2	---	-72H	4-1/8	5	---
-28H	1-5/16	2-1/4	---	-80H	4-5/8	5-1/2	---
-32H	1-9/16	2-1/2	---	-88H	5-1/8	6	---
-36H	1-13/16	2-3/4	---	-96H	5-5/8	6-1/2	---
-40H	2-1/16	3	---	---	---	---	---

200 WING HOSE CLAMPS

Perforated Stainless Steel worm-drive clamp. Heavy-duty four-piece Quadra-Lock construction enables far more tightening torque to be delivered to the band perforations. Use for aircraft and heavy-duty industrial applications. Conical Arched Perforated Slots: More steel between perforations for added strength and smoother worm-drive engagement. Made in the USA

QS200 Dash No.	Dia. Range (In.)		Price Each	QS200 Dash No.	Dia. Range (In)		Price Each
	Min.	Max.			Min.	Max.	
-06W	7/16	25/32	---	-24W	1-1/16	2	---
-08W	1/2	29/32	---	-28W	1-9/16	2-1/4	---
-10W	9/16	1-1/16	---	-32W	1-9/16	2-1/2	---
-12W	11/16	1-1/4	---	-36W	1-13/16	2-3/4	---
-16W	13/16	1-1/2	---	-40W	2-1/16	3	---

BREEZE AEROSPACE CLAMPS AN737TW SERIES

Breeze offers a several products to meet various Aerospace and Military specifications including the NAS1922, NAS 1924, MS35842, and AN737TW clamps that meet Federal Supply Class 4730. Made in the USA

Specifications: • 410 Stainless Steel Thumb Wing Screw • 9/16" Band in 300-Series SS • Meets Federal Supply Class 4730

Features: • Stainless Steel • Meets Federal Supply Class 4730 • Diameter Range 7/16" – 10 5/16"

Part No.	Min	Max	Price
AN737TW30	11/16"	15/16"	---
AN737TW44	61/64"	1 3/8"	---

BREEZE AERO-SEAL STAINLESS CLAMP KITS

Perforated stainless steel worm-drive clamp. Heavy-duty four-piece Quadra-Lock construction enables far more tightening torque to be delivered to the band perforations. Use for aircraft and heavy-duty industrial applications. Conical Arched Perforated Slots: More steel between perforations for added strength and smoother worm-drive engagement. Made in the USA

Aero-Seal Specs: • 9/16" (14.2mm) band • 5/16" (7.9mm) slotted hex screw • Per SAE standard J1508 Type "F"

Pack A : Contains 2 each QS200 -52H, -64H, -72H and -80H
P/N 05-00942 ..... ---

Pack B : Contains 2 each QS200 -8H, -12H, -24H, -32H, -40H, & -64H.
P/N 05-01340 ..... ---

BREEZE LINER CLAMPS

An integral extension of the band as an inner liner protects soft-surface hose (silicone and others) from damage caused by extrusion or shearing through the band slots. Liner clamps afford maximum protection to soft hoses while providing a true concentric seal.
Standard 1/2" (12.7mm) band
5/16" (7.9mm) slotted hex head screw
Per SAE standard J1508 Type "F"

SAE Size	Description	Min	Max	Part Number	Price
6	Breeze Clamp 9406H	7/16"	25/32"	05-14930	---
8	Breeze Clamp 9408H	1/2"	29/32"	05-04708	---
10	Breeze Clamp 9410H	9/16"	1-1/16"	05-14931	---
12	Breeze Clamp 9412H	11/16	1-1/4	05-04709	---
16	Breeze Clamp 9416H	13/16	1-1/2	05-04711	---
20	Breeze Clamp 9420H	13/16"	1-3/4"	05-14932	---
24	Breeze Clamp 9424H	1-1/16"	2"	05-14933	---
28	Breeze Clamp 9428H	1-5/16"	2-1/4"	05-14934	---
32	Breeze Clamp 9432H	1-9/16"	2-1/2"	05-14935	---
36	Breeze Clamp 9436H	1-13/16"	2-3/4"	05-14936	---
40	Breeze Clamp 9440H	2-1/16"	3"	05-14937	---
44	Breeze Clamp 9444H	2-5/16"	3-1/4"	05-14938	---
48	Breeze Clamp 9448H	2-9/16"	3-1/2"	05-14939	---
52	Breeze Clamp 9452H	2-13/16"	3-3/4"	05-14940	---
52	Breeze Clamp 9452	2-13/16"	3-3/4"	05-15419	---
56	Breeze Clamp 9456H	3-1/16"	4"	05-14941	---
60	Breeze Clamp 9460H	3-5/16"	4-1/4"	05-14942	---
64	Breeze Clamp 9464H	3-9/16"	4-1/2"	05-14943	---
72	Breeze Clamp 9472H	1-7/8"	5"	05-14944	---
80	Breeze Clamp 9480H	2-1/2"	5-1/2"	05-14945	---

BREEZE AERO-SEAL® 300 SERIES CLAMPS

The original perforated stainless steel worm-gear clamp. Heavy duty four-piece Quadra-Lock construction enables far more tightening torque to be delivered to the band perforations. Use for aircraft and heavy-duty industrial applications.
• 9/16" (14.2 mm) band • 5/16" (7.9 mm) slotted hex screw • Per SAE standard J1508 Type "F"

SAE Size	Description	Min	Max	Part Number	Price
6	Breeze Clamp 300-06H	7/16"	25/32"	05-14905	---
8	Breeze Clamp 300-08H	1/2"	29/32"	05-14906	---
10	Breeze Clamp 300-10H	9/16"	1-1/16"	05-14907	---
12	Breeze Clamp 300-12H	11/16"	1-1/4"	05-14908	---
16	Breeze Clamp 300-16H	13/16"	1-1/2"	05-14909	---
20	Breeze Clamp 300-20H	13/16"	1-3/4"	05-14910	---
24	Breeze Clamp 300-24H	1-1/16"	2"	05-14911	---
28	Breeze Clamp 300-28H	1-5/16"	2-1/4"	05-14912	---
32	Breeze Clamp 300-32H	1-9/16"	2-1/2"	05-14913	---
36	Breeze Clamp 300-36H	1-13/16"	2-3/4"	05-14914	---
40	Breeze Clamp 300-40H	2-1/16"	3"	05-14915	---
44	Breeze Clamp 300-44H	2-5/16"	3-1/4"	05-14916	---
48	Breeze Clamp 300-48H	2-9/16"	3-1/2"	05-14917	---
52	Breeze Clamp 300-52H	2-13/16"	3-3/4"	05-14918	---
56	Breeze Clamp 300-56H	3-1/16"	4"	05-14919	---
60	Breeze Clamp 300-60H	3-5/16"	4-1/4"	05-14920	---
64	Breeze Clamp 300-64H	3-9/16"	4-1/2"	05-14921	---
72	Breeze Clamp 300-72H	1-7/8"	5"	05-14922	---
80	Breeze Clamp 300-80H	2-1/2"	5-1/2"	05-14923	---
88	Breeze Clamp 300-88H	3-1/8"	6"	05-14924	---
96	Breeze Clamp 300-96H	3-5/8"	6-1/2"	05-14925	---
104	Breeze Clamp 300-104H	4-1/8"	7"	05-14926	---
128	Breeze Clamp 300-128H	5-5/8"	8-1/2"	05-14927	---
152	Breeze Clamp 300-152H	7-1/8"	10"	05-14928	---
188	Breeze Clamp 300-188H	9-3/8"	12-1/4"	05-14929	---

DOUBLE EAR CLAMPS

• Robust, durable one-piece design offers positive, tamper resistant seal • For air and fluid media lines • One-piece design offers quick and easy installation • Smooth edges prevent damage to hose.

1/4".....P/N 15-04628 ..... ---
5/16".....P/N 15-04870 ..... ---
3/8".....P/N 15-04816 ..... ---

EAR CLAMP PINCERS WITH SIDE JAWS TOOL

Side Jaw Pincer, Forged Steel, used to close ear clamps.
P/N 12-03358 ..... ---

STANDARD EAR CLAMP TOOL

Straight Jaw Pincer, Forged Steel, Normal Use of installation or removal of 5mm, 7mm, 9mm ear clamps .....P/N 12-03297 ..... ---

BREEZE MINIATURE CLAMPS

The best clamp for small diameter hose and tubing. Stainless steel band and housing with plated carbon steel screw. Applies an even circumferential pressure with less torque.

Description	Part No.	Price
6504 Mini Breeze Clamp .250" Thru .625"	6504	---
6506 Mini Breeze Clamp .438" Thru .781"	6506	---

SNAPPER CLAMPS

A quick ratchet closure provides specific take-up, eliminating excessive tightening which may mutilate the hose.

3/8" for 1/4" fuel line ..P/N 05-00940 ..... ---
1", for radiator hose ...P/N 05-00941 ..... ---

LOOM CLAMPS VINYL COATED

Vinyl Hose Clamps. Vinyl coated galvanized steel. Temp. Range (F)-30 to +180

Clamp I.D.	Part No.	Price	Clamp I.D.	Part No.	Price
1/4	15-04635	---	5/8	15-04877	---
3/16	15-04804	---	1/2	15-06851	---
3/8	15-04821	---			

EXTRA GRIP STEEL CONDUIT CLAMPS

These Extra Grip Conduit Clamps have an added feature other clamps just don't. To help fight the susceptibility of the conduit slipping due to oil buildup in the clamp, this clamp features a groove for increased grip on coiled wire conduit.

Size	Material	Quantity	Part Number	Price
3/16"	Steel	Single	05-13142	---
1/4"	Steel	Single	05-13143	---
3/16"	Aluminum	Pack of 4	05-16634-4	---
1/4"	Aluminum	Pack of 4	05-16649-4	---

AN742 PLAIN CLAMPS

Plain loop-type line support clamps, made of aluminum alloy meeting specification QQ-A-362, condition T. Heat-treated to a minimum tensile strength of 50,000 PSI.

Aluminum					
Dash No.	For Tube O. D. (In.)	Price Each	Dash No.	For Tube O. D. (In.)	Price Each
-D3	3/16	---	-D8	1/2	---
-D4	1/4	---	-D10	5/8	---
-D5	5/16	---	-D12	3/4	---
-D6	3/8	---	-D15	15/16	---
-D7	7/16	---	-D16	1	---

Steel					
Dash No.	For Tube O. D. (In.)	Price Each	Dash No.	For Tube O. D. (In.)	Price Each
-3	3/16	---	-8	1/2	---
-4	1/4	---	-10	5/8	---
-5	5/16	---	-12	3/4	---
-6	3/8	---	-15	15/16	---
-7	7/16	---	-16	1	---

LINE CLAMPS

These line clamps are lightweight but tough enough for the most rugged applications. Feature single piece .030" thick aluminum construction. No more messy bundles. Each clamp is shaped to hold braided line, tubing, or wiring securely, without pinching. Secured w/ standard tie wraps, these claps keep movement and wear to a minimum. Can be adjusted to mount on any tubing from 3/4".

Size	Part No.	Price	Size	Part No.	Price
1/4"	05-00004	---	5/8"	05-00007	---
3/8"	05-00005	---	3/4"	05-00008	---
1/2"	05-00006	---	1"	05-00009	---
30 piece assortment (includes 5 of each clamp)				P/N 05-02205.....---	

TYGON LP-1200 FUEL LINE TUBING

Color: Opaque Clear

This high-performance fuel tubing is intended for use with small engines. Tygon® LP-1200 Low Permeation Fuel Tubing is specially designed to meet new EPA and CARB evaporative emission standards of 15g/m2/day. The patent-pending design and robust multi-layer construction offers superior fitting retention and resistance to swelling, hardening and cracking caused by hydrocarbon-based fluids.

Features: • Transparent - Easy to diagnose fuel flow or leak problems • High purity fluoropolymer inner liner - Reduces the risk of fuel system fouling from extractable solids found in typical rubber products • Superior fuel resistance and compatible with ethanol-enhanced fuels - Worry-free operation • Excellent fitting retention - 100% seal for optimum safety • Superior flexibility - Easy assembly, routing and optimized fuel pick-up • Excellent elasticity - Prevents "necking" from over-stretching during installation • UV resistant: Meets ANSI B175.1 Annex D Standard UV testing • EPA and CARB approved

I.D. (in.)	O.D. (in.)	Wall Thick-ness. (in.)	Max. Working Pressure* (PSI)	Part No.	Price Per Foot
1/8	1/4	1/16	60	05-15261	---
1/4	3/8	1/16	30	05-15262	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

NYLO-SEAL TUBING - POLY-FLO TUBING

NYLO-SEAL NYLON TUBING

Made of Nylon-II and is far superior to other types of Nylon tubing. It does not depend on moisture for flexibility and does not become brittle. It has excellent resistance to flexural fatigue and can be used where there is vibration or tube movement. Self-extinguishing under A.S.T.M. Test D635-44. N Tubing is rated to 1000 lbs. and is excellent for instrument lines and other low pressure applications. Use NSR tubing (2500 lb. rating) for hydraulic brake lines after verifying it is appropriate tubing for your application.

N TUBING

Black Part No.	Natural Part No.	OD Inches	Wall Thickness	Burst Pressure	Min Bend Radius	Weight	Price per Ft.
N/A	05-01009	1/8	0.023	960	3/8	0.004	---
N/A	05-01010	3/16	0.025	960	1/2	0.006	---
N/A	05-01011	1/4	0.035	960	1-1/4	0.015	---
N/A	05-01012	3/8	0.05	960	2	0.032	---

NSR TUBING

Black Part No.	Natural Part No.	OD Inches	Wall Thickness	Burst Pressure	Min Bend Radius	Weight	Price per Ft.
05-01228	05-12487	1/8	0.026	2120	5/16	0.004	---
05-01230	05-12489	3/16	0.039	2120	7/16	0.008	---
05-01229	05-12488	1/4	.050	2120	9/16	0.015	---
05-01231	05-01012	3/8	0.075	2120	1	0.032	---

NYLAFLOW NYLON TUBING

Nylon Polypenco. pressure tubing is a super tough, low friction, high flexibility tubing that can be used for cable protectors or in short pieces, as small bushings and washers. Suitable for use in oil, air, vacuum, fuel and low pressure hydraulic lines. It resists abrasion and wears better than aluminum or steel tubing. Has an extremely smooth inner surface with a very low coefficient of friction. Used for brake lines, and also as a conduit for the rudder cables in the Rutan VariEze and Long-EZ. Rated 1000 psi. Use Poly-Flo fittings. Suggested Temp Range: -65 to +150 Fahrenheit Sold by the foot.

Type	OD	ID	PSI	Part No.	Price
Standard Wall	1/8	.096	1000	05-00105	---
Standard Wall	3/16	.138	1000	05-00110	---
Standard Wall	1/4	.190	1000	05-00115	---
High Bursting Pressure	1/4	.150	2500	05-04349	---
High Bursting Pressure	3/16	.111 (appx.)	2500	05-04355	---

NEOPRENE HOSE

Neoprene tubing is used in instrument hookups and for battery drains. Use AN hose fittings such as AN840 with Breeze Mini Clamps, nylon or polyethylene hose fittings such as 0710-153. Not for use as fuel or oil lines.

I.D.	Wall	Part No.	Price/Ft
3/16”	1/16”	05-00200	---
1/4”	1/16”	05-00300	---
3/8”	1/16”	05-00400	---

TYGON TUBING

Tygon tubing is flexible, tough, abrasion-resistant and non-aging. Ideal or hookup of airspeed pitot and static lines (not recommended for pressurized applications). Use AN hose fittings such as AN840 with Breeze Mini Clamps, nylon or polyethylene hose fittings such as 0710-153.

3/8” O.D. x 1/4” I.D.....P/N 05-00944 ..... **--- Ft**
1/2” O.D. x 3/8” I.D.....P/N 05-00945 ..... **--- Ft**

BING ALCOHOL RESISTANT FUEL LINE

This fuel line is blue in color and does not rot or deteriorate from the inside, clogging the carburetor or fuel system. It withstands 50 PSI and tensile strength is 8000 PSI. It is resistant to temperatures of -65° to 220°F without deterioration, features exceptional resistance to gasoline, oil, oxygen, and ozone, and has high elastic memory allowing use of Delrin or nylon barbed fittings in low pressure applications without the need for external clamps.

Description	ID	OD	Part No.	Price
Bing Alcohol Resistant Fuel Line	1/4	3/8	05-00500	---
Bing Alcohol Resistant Fuel Line	1/8	1/4	05-00560	---

VINYL TUBING

This clear Vinyl tubing is strong and light weight. Use flexible vinyl tubing to transport liquids, gases, and some solids. Chemically resistant to alkalies, alcohol, aliphate, hydrocarbons, oils, and some acids.

Part No.	OD	ID	Price
0500-071	3/8	1/4	---
0500-165	7/8	5/8	---
0500-180	1	3/4	---

BLACK MAX NYLON BRAKE LINE

This is the standard brake line used with Black Max Kits. It is nylon tubing with 1/8” OD x .078” ID and 1000PSI. Sold by the Foot. .....P/N 06-01006 ..... **---**

POLY-FLO POLYETHYLENE TUBING

Poly-Flo tubing is a flexible, economical thermoplastic tubing fabricated from high molecular weight polyethylene for improved strength. The base resin has the greatest resistance to environmental stress cracking of all the regular polyethylenes. It meets A.S.T.M. D-1248-60T, Type 1, Class A, Grade 4 and Federal Specification LP-590, Type 2, Grade 7. Used for instrument or pneumatic lines. Use Nylo-Seal fittings (259-N inserts are required), nylon or polyethylene hose fittings such as 0710-153. Color - natural.

Part No.	Tube OD	Wall	Bend Radius	PSI at 75 F	PSI at 150 F	Price
44-P	1/4	0.040	1.250	190	75	---
66-P	3/8	0.062	2.00	205	80	---
88-P	1/2	0.062	2.500	150	60	---

PRESSURE RATINGS

Operating Temperature	Poly-Flo (Polyethylene)		Nylo-Seal NSR** (Nylon 11)	
	Burst Pressure* PSI	Max. Work Pressure* PSI	Burst Pressure* PSI	Max. Work Pressure* PSI
Room Temp.	250-600	75-160	2500	625
140°F.	125-300	37-80	1800	425
230°F.	UNUSABLE		1400	350
280°F.	UNUSABLE		UNUSABLE	

***Depends on tube size and wall thickness. Working pressure based on a safety factor of 4.**
****Satisfactory for continuous operation up to 180°F. Becomes embrittled above this point.**

SUPER HEAVY PULSE LINE

Super heavy wall clear polyurethane pulse line has an extra thick 3/32” wall that will not dampen crankcase pulse even on longer runs. Clear one piece urethane construction is not affected by fuel. Will not harden, crack, or become brittle with age. Can also be used as clear fuel line. Sold by the foot. Outside Diameter: 7/16". Inside Diameter: 1/4". Wall Thickness: 3/32" ..... P/N 15-06094 ..... **---**

CLEAR BLUE FUEL LINE

Polyether-based Polyurethane Tubing offers excellent resistance to chemicals, kinking, abrasion, hydrolysis, oxidation, and ozone exposure. Our Polyether-based Polyurethane tubing excels in maintaining exceptional flexibility, high-impact strength, and above average performance in cold temperature.

O.D.	Description	Part Number	Price
1/4”	Clear Blue Polyurethane Fuel Line	15-04632	---
5/16”	Clear Blue Polyurethane Fuel Line	15-04874	---
3/8”	Clear Blue Polyurethane Fuel Line	15-04818	---

POLYURETHANE TUBING

Flexible polyurethane tubing has greater abrasion and tear resistance than any other type of plastic tubing. Won’t age or oxidize. Excellent low temperature flexibility - avoids brittleness. Tensile strength 5900 PSI. Use AN hose fittings such as AN840 with Breeze Mini Clamps, nylon or polyethylene hose fittings such as 0710-153. Sold by the foot.

Mfg Part No.	OD	ID	Our Part No.	Price
0585-033	3/16	1/8	05-11169	---
0585-071	3/8	1/4	0585-071	---
0585-107	1/2	3/8	0585-107	---
0585-165	7/8	5/8	0585-165	---
0585-180	1	3/4	05-04246	---

PARKER SUPER-FLEX 397 SERIES FUEL LINE HOSE

Parker’s fuel line hose includes a thermoplastic barrier that helps protect atmosphere from harmful hydrocarbons that escape through the carcass of ordinary fuel hose. This hose surpasses all of CARB’s stringent permeation requirements and is similar to SAE30R7 specifications. The Super-Flex FL hose also features an abrasion and weather resistant cover to help protect from external application abuse. **Approved for biodiesel fuels that meet ASTM D 6751 requirements per UL guidelines for Biodiesel compatibility.**
4:1 Design factor

Tube:	NBR with a thermoplastic barrier
Cover:	Black Hypalon
Reinforcement:	Braided Polyester
Temperature Range:	-30°F to +257°F (-34°C to +125°C)

Part No.	ID (in.)	Reinf. Braids	OD (in.)	OD (mm)	Approx. wt. per 100 ft.	Min. Bend Rad.	Max Rec. WP	Price Per Ft.
05-03597	1/4	1	0.500	12.7	9.7	1.5”	100	---
05-07223	5/16	1	0.0562	14.3	11.3	2.5”	100	---
05-03598	3/8	1	0.625	15.9	1.30	2”	100	---

AP

MIL-DTL 6000D OIL AND COOLANT HOSE

Inside and out, MIL-DTL 6000D is designed to handle the effects of oil, alcohol, coolant, and water. The tube is oil resistant with a black cover reinforced with high strength mildew resistant yarns. It withstands extreme temperature conditions from -40°F to +250°F. Meets or exceeds U.S. military specs. Lightweight, flexible and easy-to-handle, making it the perfect hose for hard-to-get-to spots in tight engine compartments. Not recommended for fuel lines.

Part No.	Hose Dimensions		Burst Pressure (PSI)	Wt./ Ft. (Lb.)	Price Per Ft.
	I.D. (In.)	O.D. (In.)			
6000-4	1/4	5/8	1,000	.14	---
6000-5	5/16	11/16	1,000	.16	---
6000-6	3/8	3/4	1,000	.18	---
6000-8	1/2	7/8	1,000	.22	---
6000-10	5/8	1	1,000	.26	---
6000-12	3/4	1-1/8	1,000	.27	---
6000-14	7/8	1-1/4	1,000	.32	---
6000-16	1	1-3/8	1,000	.38	---
6000-20	1-1/4	1-3/4	1000	---	---
6000-24	1-1/2	2	1000	---	---
6000-28	1-3/4	2-1/8	1000	---	---
6000-32	2	2-3/4	1000	---	---

Sold in one foot increments. Max Length:10FT
MIL-DTL-6000C was superseded by this MIL-DTL-6000D
Note: This hose is not recommended for use as fuel lines.

EATON 306 HOSE (MIL-H-5593)

A low-pressure hose for instrument air & vacuum lines. Consists of an inner tube of seamless synthetic rubber, reinforced with a single layer of cotton braid and a synthetic rubber cover. Used with slip-over hose fittings such as the AN840 series, or with Eaton 471 hose fittings when connecting to AN type fittings. Conforms to Specification MIL-H-5593. Specify hose I.D. when ordering.

Part No.	Hose Dimensions		Burst Pressure (PSI)	Wt./ Ft. (Lb.)	Price Per Ft.
	I.D. (In.)	O.D. (In.)			
306-2	.125	.344	1,000	.056	---
306-3	.188	.406	1,000	.056	---
306-4	.250	.469	1,000	.072	---
306-6	.375	.594	1,000	.096	---
306-8	.500	.750	750	.144	---
306-10	.625	.875	700	.168	---

EATON 471 HOSE FITTING
USED WITH EATON 306 HOSE

471-2D

Eaton 471 hose fittings consist of an AN818 nut, an externally threaded 37° nipple and an internally threaded hose socket. All components are anodized aluminum. Fittings conform to MS27404.

Part No.	Tube Size (In.)*	AN818 Nut Thread Size	Price Ea.
471-2D	1/8"	5/6-24	---
471-4D	1/4	7/16-20	---
471-6D	3/8	9/16-18	---
471-8D	1/2	3/4-16	---

***Corresponds to tube O.D. of AN-type flared tube fittings. Not an Eaton dimension.**

EATON ASSEMBLY MANDRELS FOR AIRCRAFT HOSE ASSEMBLIES

For use with Eaton 491 fittings. These tools are recommended to avoid damage to the sealing surface and to properly support the inner tube.

Note: These are Eaton Factory Mandrels, which are highly recommended for best results.

Hose Size	#491 Fitting P/N	Mandrel P/N	Price	Hose Size	#491 Fitting P/N	Mandrel P/N	Price
3/16"	491-3	S-1051-3*	---	1/2"	491-8	S-1051-8	---
1/4"	491-4	S-1051-4*	---	5/8"	491-10	S-1051-10	---
5/16"	491-5	S-1051-5*	---	3/4"	491-12	S-1051-12	---
3/8"	491-6	S-1051-6*	---				

***With Removable mandrel. Eaton Qty. Discount: 15% for 20 ft.; 20% for 50 ft.; 25% for 100 ft. or more (Per Item)**

SILICONE HOSE

Sold by the foot (not for fuel or oil)

ID	OD	Wt/Ft/Lbs	Part No.	Price
1/4"	0.45"	.064	05-00659	---
3/8"	0.67"	.144	05-00660	---
1/2"	0.80"	.175	05-06925	---
5/8"	0.95"	.220	05-00661	---
3/4"	1.07"	.276	05-00671	---

EATON 303 HOSE

This standard hose is used in med-pressure a/c hydraulic fuel, oil and coolant systems. An inner tube of seamless synthetic rubber is reinforced with a synthetic-impregnated single-wire braid over a single cotton braid and an outer cover of synthetic-impregnated oil-resistant cotton braid. Operating temperature -65° to 250°F. Conforms to MILH-8794 (supersedes MIL-H-5511A). Used with Eaton 491 hose fittings.

Hose P/N*	For Tubing Size	Hose I.D.	Max. Oper. Pressure** (PSI)	Wt. per Ft. (Lb.)	Price Per Ft.
303-3	3/16	1/8	3,000	.120	---
303-4	1/4	3/16	3,000	.132	---
303-5	5/16	1/4	3,000	.156	---
303-6	3/8	5/16	2,000	.228	---
303-8	1/2	13/32	2,000	.264	---
303-10	5/8	1/2	1,750	.372	---
303-12	3/4	5/8	1,500	.456	---

*** Corresponds to dash no. of Eaton 491 hose fittings.**
**** Safety factor of 4.**

EATON 491 HOSE FITTINGS
USED WITH EATON 303 HOSE

Eaton 491 hose fittings consist of an AN818 style nut, an externally threaded 37° nipple and an internally threaded hose socket. Fittings of sizes 3 through 6 have nuts and nipples of cadmium plated steel. Nuts and nipples for size 8 and larger are of anodized aluminum. Fittings conform to MS24587.

Part No.	Tube Size (In.)*	AN818 Nut Thread Size**	Price Each
491-3	3/16	3/8-24	---
491-4	1/4	7/16-20	---
491-5	5/16	1/2-20	---
491-6	3/8	9/16-18	---
491-8D	1/2	3/4-16	---
491-10D	5/8	1-1/16-12	---
491-12D	3/4	1-1/16-12	---

*** Corresponds to dash no. of Eaton 816 hose fittings.**
**** Safety factor of 4.**

EATON 666 HOSE

Eaton 666 medium pressure Teflon hose is widely used in aircraft applications handling fuel, oils, and other fluids. It is unaffected by all fuels, oils, alcohols, coolants, or solvents commonly use in aircraft. Construction of Eaton 666 hose is of spiral extruded Teflon resin for the inner tube with a reinforcement and outer cover of Type 300 Series stainless steel wire braid. The result is a lightweight hose able to withstand prolonged flexing and vibration under all service conditions. Eaton 666 hose is also use in hydraulic and pneumatic applications at pressures up to 1500 psi.

Hose Part No.	Hose I.D. (inches)	Hose O.D. (inches)	Max. Oper. Pressure	Wt. Per Ft. (lbs.)	Price Per Ft.
666-4	.188	.312	1500	.08	---
666-5	.250	.375	1500	.09	---
666-6	.313	.466	1500	.11	---
666-8	.406	.562	1500	.14	---
666-10	.500	.656	1500	.19	---
666-12	.625	.789	1000	.24	---

REUSABLE 37° FITTINGS FOR #666 HOSE

Use with Hose Size	Part No.	Price ea.
666-4	05-01320	---
666-5	05-01321	---
666-6	05-01322	---

Use with Hose Size	Part No.	Price ea.
666-8	05-01323	---
666-10	05-01324	---
666-12	05-01325	---

STRAIGHT CRIMP FLARELESS FITTINGS FOR #666 HOSE

Part Number	Eaton Hose Size	Price ea.
AE21502-E	666-4	---
AE21502-F	666-5	---
AE21502-G	666-6	---

Part Number	Eaton Hose Size	Price ea.
AE21502-H	666-8	---
AE21502-J	666-10	---
AE21502-K	666-12	---

Crimping tool and sleeve required for assembly.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

EATON 816 & 8891 HOSE FITTINGS

USED WITH EATON 601 HOSE

Eaton 816 straight hose fittings and 8891 90° hose fittings consist of a pre-assembled nut/nipple assembly and an internally threaded hose socket. The size 4 fitting has a cadmium plated steel nut and nipple. Sizes 6, 8 and 10 nuts and nipples, and all sizes of sockets, are anodized aluminum. Note: Eaton 816 fittings are not the same as AN816 fittings. Include the word "Eaton" with Part number when ordering.

Part No.	Tube Size	Thread	Price
816-4	1/4	7/16-20	---
816-6D	3/8	9/16-18	---
816-8D	1/2	3/4-16	---
816-10D	5/8	7/8-14	---
816-12D	3/4	1-1/16	---
816-16D	1	1-5/16-12	---
816-20D	1-1/4	1-5/8-12	---
816-32D	2	2-1/2	---

Part No.	Tube Size	Thread	Price
8891-4	1/4	7/16-20	---
8891-6D	3/8	9/16-18	---
8891-8D	1/2	3/4-16	---
8891-10D	5/8	7/8-14	---
8891-12D	3/4	1-1/16	---
8891-16D	1	1-5/16-12	---
8891-20D	1-1/4	1-5/8-12	---

***Corresponds to tube O.D. of AN-type flared tube fittings. Not an Eaton dimension. ** Same thread size as AN818 nut of same dash no.**
Less 10%, 6 - 11 Eaton fittings; Less 15%, 12 - 24 Eaton fittings; Less 20%, 25 or more Eaton Fittings May be assorted sizes and types.

EATON FIRE SLEEVE

Eaton Firesleeve was specially developed to meet the fire resistance requirements of FAATSO - C53a OR TSO - C75. May be used for all fuel, oil, hydraulic, fire extinguisher & propeller feathering lines. "Fire-proof" hose lines as defined by FAA must withstand a direct flame for fifteen minutes under specified flow conditions without failure. "Fire-resistant" lines must withstand a 5-minute exposure under these conditions. "Fire-proof" hose lines are obtained when the proper size Eaton Firesleeve is selected from the chart below and properly assembled. 900591B Clamps - used to secure firesleeve material on each end over the basic hose assembly. See chart for correct size.

900591B-1C ..... Clamp I.D.= 1" .....P/N 05-02653 ..... ---
900591B-2C ..... Clamp I.D.= 1.5" .....P/N 05-02652 ..... ---
900591B-3C ..... Clamp I.D.= 2" .....P/N 05-02654 ..... ---

Part No.	Use with Hose #		900591B Clamp Dash #	Price Per Ft.	Part No.	Use with Hose #/		900591B Clamp Dash #	Price Per Ft.
	303	601				303	601		
AE102-8	-3	-4	-1C	---	AE102-16	-10	-10	-3C	---
AE102-9	-4	-5	-2C	---	AE102-18	-12	-	-3C	---
AE102-10	-5	-	-2C	---	AE102-20	-	-12	-3C	---
AE102-12	-6	-6	-2C	---	AE102-22	-16	-16	-3C	---
AE102-14	-8	-8	-2C	---	AE102-24	-	-	-3C	---

Quantity Discounts Same As Eaton Hose
Firesleeve Clamp Installation Tool - Band Width: 1/4 in - 3/8 in
P/N 05-00447 ..... ---

EATON AE466

Integral silicone firesleeves on Teflon 666 hose assemblies.

This hose/sleeve combination meets the test requirements of TSO-C53A Type D and TSO-C75 Type IIIA and IIIB. The Silicone sleeve is applied directly onto the metal braid an fittings to form a smooth, tight bond. Hose flexibility is not impaired. Non-age sensitive for extra-long service life. Eliminates the use of band clamps. Temperature range -65°F to +450°F. Specify hose size and length of assembly in inches and eighths of an inch from sealing surface to sealing surface. Available in blue, brown, orange, or purple. Purple is lightweight.

Call 877-4-SPRUCE (777823), or email
info@aircraftspruce.com for pricing and availability.

Size	Aeroquip Part No.
-3	AE3663161BXXXX
-4	AE3663161EXXXX
-5	AE3663161FXXXX
-6	AE3663161GXXXX

Size	Aeroquip Part No.
-8	AE3663161HXXXX
-10	AE3663161JXXXX
-12	AE3663161KXXXX

EATON 8846 HOSE FITTINGS

Eaton 8846 45° Fitting. Swivel Flared UNJF Threads - Little Gem Reusable Fittings are noted for their outstanding performance as a result of a unique lipseal design concept. During assembly the nipple spur cuts a lip in the tube stock of the hose forming the fluid seal.

Part No.	Tube Size	Thread	Price
8846-6D	3/8	9/16-18	---
8846-8D	1/2	3/4-16	---
8846-10D	5/8	7/8-14	---
8846-12D	3/4	1-1/16-12	---
8846-16D	1	1-5/16-12	---
8846-20D	1-1/4	1-5/8-12	---

EATON 601/AE701 HOSE

An inner tube of seamless, specially formulated synthetic rubber reinforced with a stainless steel partial inner braid and full-coverage stainless steel outer braid. Operating temperature -65 to 300F. Eaton 601 hose is widely used for aircraft fuel and oil lines where flexibility and light weight are prime considerations. Because of its lighter weight and lower operating pressure than type 303 hose, it is not recommended for hydraulic lines. Use with Eaton 816 hose fittings. Eaton 601/AE701 is a direct replacement for old 601 hose. AE701 hose has no shelf life and is the upgraded version of 601 hose.

Hose Part Part No.*	For Tubing Size	Hose I.D.	Max. Oper. Pressure** (PSI)	Wt. per Ft. (Lb.)	Price Per Ft.
601-4	1/4	7/32	1500	.114	---
601-6	3/8	11/32	1500	.155	---
601-8	1/2	7/16	1200	.170	---
601-10	5/8	11/16	1200	.207	---

*** Corresponds to dash no. of Eaton 816 hose fittings. ** Safety factor of 4.**

CUSTOM EATON 666 TEFLON HOSE ASSEMBLIES

Eaton Teflon hose is constructed with a conductive, seamless smooth bore inner tube covered with a stainless steel braid. Unattracted by fuel, oil, coolants and solvents used in aircraft systems. Service and shelf life of Eaton Teflon hose is unlimited for all practical purposes. They can be used in fuel, hydraulic and pneumatic applications at working pressures to 1500psi. Minimum burst pressures are 8000 psi sizes -3 to -8. Temperature range is -65° to +450° F. Hose assemblies prices are straight to straight. Call for 45° and 90° elbow pricing.Measurements are taken as follows:

Fittings	Measurement
Straight to Straight	End to end (overall length)
Straight to 45°	End of straight fitting to top of b-nut on 45° fitting
Straight to 90°	End of straight fitting to center of 90° fitting
45° to 45°	Top of b-nut on 45° fitting to Top of b-nut on 45° fitting
45° to 90°	Top of b-nut on 45° fitting to center of 90° fitting
90° to 90°	Center of 90° fitting to Center of 90° fitting

Call 877-4-SPRUCE (777823), or email at info@aircraftspruce.com for pricing and availability.

Size	Eaton Part No.
-3	AE3660000BXXXX
-4	AE3660000EXXXX
-5	AE3660000FXXXX
-6	AE3660000GXXXX

Size	Eaton Part No.
-8	AE3660000HXXXX
-10	AE3660000JXXXX
-12	AE3660000KXXXX

CUSTOM CONDUCTIVE TEFLON HOSE ASSEMBLIES

Stainless braid conductive Teflon hoses are among the highest quality aircraft hoses that exist. Not "Certified" but are similar in construction to high end certified aircraft hoses. Used extensively on Experimental Aircraft. To use these on a certified aircraft, please discuss with your mechanic and see AC 23-27. Rated continuous working pressure is between 2,000 and 3,000 PSI depending on dia. Rated Bursting pressure is between 8,000 and 12,000 PSI. ALL hoses are pressure tested prior to shipment. Stainless Steel Fittings are used on all hoses. Typical uses for Aircraft with 300hp and less. (Please make sure that hose diameter is suitable for your application) 3 (Primer and Brake lines) 4 (Brake Lines, Oil and Fuel Pressure lines, and certain fuel lines) 6 (Fuel Lines) 8 (Oil Lines).

See these hose assemblies at www.aircraftspruce.com for price and availability.

BLACK SILICONE FIRE SLEEVE

This black silicone fire sleeve has a temperature range of -65°F to +2000°F. The 5/8" I.D. Fits all E185, E225 & 0-300 engine breather tubes. The 3/4" I.D. fits O-470 I IO470 breather tubes. Sold by the foot.

1/4"..... P/N 05-06832 ..... ---
5/8"..... P/N 05-00672 ..... ---
3/4"..... P/N 05-04549 ..... ---

BLUE FIRE SLEEVE

1/2 ID size for wires or other sizes for wire insulation or firesleeve for aircraft hose assembly. Colors: Blue

Size	Part No.	Price
1/2"	05-04712	---
5/8"	05-04713	---
3/4"	05-04714	---

AP

STRATOFLEX HOSE & FITTINGS

STRATOFLEX 111 HOSE

Part No	Tube O.D.	Hose ID.	Max Press	Wt Per lb./In.	Price Per Ft.
111-4	.250	.188	3000	.0120	---
111-5	.312	.250	3000	.0130	---
111-6	.375	.312	2000	.0190	---
111-8	.500	.406	2000	.0220	---
111-10	.625	.500	1750	.0310	---
111-12	.750	.625	1500	.0380	---
111-16	1.00	.875	800	.0368	---

STRATOFLEX 300 STRAIGHT FLARED FITTINGS FOR 111 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
300-3S	.188	3/8-24	---
300-4S	.200	7/16-20	---
300-5S	.312	1/2-20	---
300-6S	.375	9/16-18	---
300-8D	.500	3/4-16	---
300-10D	.625	7/8-14	---
300-12D	.750	1-1/16-12	---
300-16D	1.00	1-5/16-12	---

STRATOFLEX 124 HOSE

Description	Part No.	Price
124-3 Hose	124-3	---
124-4 Hose	124-4	---
124-6 Hose	124-6	---
124-8 Hose	124-8	---
124-10 Hose	124-10	---

STRATOFLEX 156 MEDIUM PRESSURE HOSE

Part No	Tube O.D.	Hose ID.	Max Press	Mini Blend	Price/Ft.
156-3	.188	.156	1500	1.75	---
156-4	.250	.219	1500	2.00	---
156-5	.312	.281	1500	2.25	---
156-6	.375	.344	1500	2.50	---
156-8	.500	.438	1250	3.50	---
156-10	.625	.562	1250	4.00	---
156-12	.750	.688	1250	4.50	---
156-16	1.000	.875	1000	5.50	---

STRATOFLEX 678 45° ELBOW FLARED FITTINGS FOR 156 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
678-3S	.188	3/8-24	---
678-4S	.250	7/16-20	---
678-6D	.375	9/16-18	---
678-8D	.500	3/4-16	---
678-10D	.625	7/8-14	---
678-12D	.750	1-1/16-12	---

STRATOFLEX 193 HOSE

Specifications: Hose meets or exceeds the requirements of MIL-H-5593. Construction: Tube - Seamless Buna - N. Reinforcement - One braid of high tensile fiber cord. Cover - Synthetic rubber. Identification: LP-MIL-H-5593-size, date of manufacture, manufacturer's code (CAGE) marked on one side of the hose. Stratoflex 193-size marked on other side of hose. Yellow markings are repeated every 12 inches. Application: Low pressure air and vacuum instrument systems. Vacuum service 20"Hg sizes -2 thru -6; 10"Hg sizes -8and -10. Temperature range: -65 to +165°F / (-54 to +74°C).

Part No	Tube O.D.	Hose ID.	Max Press	Weight per In. (l.b.)	Price Per Ft.
193-2	.35	.125	300	.0038	---
193-3	.41	.188	250	.0050	---
193-4	.48	.250	200	.0058	---
193-6	.60	.375	150	.0079	---
193-8	.75	.500	150	.0015	---
193-10	.87	.625	150	.0138	---

STRATOFLEX 646/640 45° ELBOW FLARED FITTINGS FOR 111 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
646-4S	.250	7/16-20	---
646-6S	.375	9/16-18	---
646-8D	.500	3/4-16	---
646-10D	.625	7/8-14	---
640-12D	.750	1-1/16-12	---
640-16D	1.00	1-5/16-12	---

STRATOFLEX 649/643 90° ELBOW FLARED FITTINGS FOR 111 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
649-4S	.250	7/16-20	---
649-6S	.375	9/16-18	---
649-8D	.500	3/4-16	---
649-10D	.625	7/8-14	---
649-12D	.750	1-1/16-12	---

STRATOFLEX 676 STRAIGHT FLARED FITTINGS FOR 156 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
676-3S	.188	3/8-24	---
676-4S	.250	7/16-20	---
676-5S	.312	1/2-20	---
676-6D	.375	9/16-18	---
676-8D	.500	3/4-16	---
676-10D	.625	7/8-14	---
676-12D	.750	1-1/16-12	---
676-16D	1.000	1-5/16-12	---

STRATOFLEX 680 90° ELBOW FLARED FITTINGS FOR 156 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
680-3S	.188	3/8-24	---
680-4S	.250	7/16-20	---
680-5S	.312	1/2-20	---
680-6D	.375	9/16-18	---
680-8D	.500	3/4-16	---
680-10D	.625	7/8-14	---
680-12D	.750	1 1/16-12	---
680-16D	1.000	1 5/16-12	---

STRATOFLEX 311 STRAIGHT FLARED FITTING FOR 193 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
311-2D	.125	5/16-24	---
311-3D	.188	3/8-24	---
311-4D	.250	7/16-20	---
311-6D	.375	9/16-18	---
311-8D	.500	3/4-16	---
311-10D	.625	7/8-14	---

STRATOFLEX 2650 FIRE SLEEVE

Part No.	Use With Hose No.				*10781-4 Clamp	Price Per Ft.
	124	193	111	156		
2650-6	-4	-	-	-	-	-
2650-8	-6	-3	-	-4	22CR	---
2650-9	-	-4	-	-5	22CR	---
2650-10	-8	-	-4	-6	22CR	---
2650-11	-	-6	-	-	-	-
2650-12	-10	-	-5,-6	-8	22CR	---
2650-13	-	-8	-8	-	-	-
2650-14	-12	-	-	-	22CR	---
2650-16	-	-10	-10	-10	32CR	---
2650-18	-	-	-	-12	32CR	---
2650-20	-16	-	-12	-	32CR	---
2650-22	-	-	-16	-16	32CR	---

STRATOFLEX FIRE SLEEVE END DIP

Stratoflex 5027 Room temperature curing cement for Stratoflex Firesleeve. To use, dip each end of firesleeve in accordance with P-104-29 and applicable drawing. Always use current specifications.

P/N 5027 ..... ---

CUSTOM HOSE ASSEMBLIES!

Use our simple online hose order form to select your hose options and easily order online!

Aircraft Spruce & Specialty Co. SINCE 1965

1-877-477-7823

www.aircraftspruce.com

TWO EATON HOSE SHOPS TO SERVE YOU!

CHANDLER, ARIZONA

Varga Enterprises operated the Eaton hose shop at Chandler Airport for over 50 years until it was acquired in 2015 by Aero Performance, a sister company of Aircraft Spruce. The Chandler facility is an Eaton approved hose shop and an FAA approved repair station, with an experienced team of hose assembly fabricators shipping hundreds of high quality hose assemblies to customers worldwide each week. For best prices and fastest delivery of your hose assembly requirements call 877-4SPRUCE or order online at WWW.AIRCRAFTSPRUCE.COM.

OMAHA, NEBRASKA

Omaha Airplane Supply was a leading Eaton hose shop for over 50 years before being acquired in 2021 by Aero Performance, a sister company of Aircraft Spruce. The Omaha facility is a supplier of a wide variety of Eaton hose assemblies to a number of aircraft OEM's and also furnishes custom hose assemblies aircraft repair shops and aircraft owners worldwide. For best prices and fastest delivery of your hose assembly requirements call 877-4SPRUCE or order online at WWW.AIRCRAFTSPRUCE.COM.

AIRCRAFT FLEXIBLE DUCTING (SOLD IN PRE-CUT LENGTHS)

Dash No.	Inside Diameter	CAT TYPE		SCAT TYPE		CEET TYPE		SCEET TYPE	
		Part No.	Price/Foot	Part No.	Price/Foot	Part No.	Price/Foot	Part No.	Price/Foot
-2A	5/8”	05-29801	---	05-29901	---	05-30501	---	05-30601	---
-3	3/4”	05-29802	---	05-29902	---	05-30502	---	05-30602	---
-3A	7/8”	05-29803	---	05-29903	---	05-30503	---	05-30603	---
-4	1”	05-29804	---	05-29904	---	05-30504	---	05-30604	---
-5	1-1/4”	05-29805	---	05-29905	---	05-30505	---	05-30605	---
-6	1-1/2”	05-29806	---	05-29906	---	05-30506	---	05-30606	---
-7	1-3/4”	05-29807	---	05-29907	---	05-30507	---	05-30607	---
-8	2”	05-29808	---	05-29908	---	05-30508	---	05-30608	---
-9	2-1/4”	05-29809	---	05-29909	---	05-30509	---	05-30609	---
-10	2-1/2”	05-29810	---	05-29910	---	05-30510	---	05-30610	---
-11	2-3/4”	05-29811	---	05-29911	---	05-30511	---	05-30611	---
-12	3”	05-29812	---	05-29912	---	05-30512	---	05-30612	---
-13	3-1/4”	05-29813	---	05-29913	---	05-30513	---	05-30613	---
-14	3-1/2”	05-29814	---	05-29914	---	05-30514	---	05-30614	---
-15	3-3/4”	05-29815	---	05-29915	---	05-30515	---	05-30615	---
-16	4”	05-29816	---	05-29916	---	05-30516	---	05-30616	---
-18	4-1/2”	05-29818	---	05-29918	---	05-30518	---	05-30618	---
20	5”	05-29820	---	05-29920	---	05-30520	---	05-30620	---
24	6”	05-29824	---	05-29924	---	05-30524	---	05-30624	---

Available in 3’, 5’, 8’ and 13’ pre-cut lengths. Use basic p/n and add -3, -5, -8, or -13 to complete the part number.

Example: A 3 ft. length of Cat-8 is p/n 05-29808-3.

THERMOID AERODUCT DUCTING (SOLD IN FULL LENGTH)

“CAT” - “CAT” type flexible hot or cold air ducting is extremely lightweight and highly flexible. Short lengths can be joined together to form a continuous length. Made of a single ply black neoprene-impregnated fiberglass with a spiral copper coated steel wire inside and wrapped with fiberglass cord on the outside. Suitable for conveying fumes and air a temperatures from -65° to over 350°F. Not recommended for handling liquids or highly abrasive materials, or for negative pressure applications.

“SCAT” - “SCAT” type ducting has the same type construction as “CAT” except with red silicone rubber impregnation. For use in conducting extremely cold or hot air with temperatures from -65° to over 550°F. Not recommended for negative pressure applications.

“CEET” - “CEET” type ducting has two plies of neoprene-impregnated fiberglass, similar to CAT except wire between plies. For use in hot or cold air applications and for conveying fumes at temperatures ranging from -65° to over 350°F. Not recommended for handling liquids or highly abrasive materials, or for negative pressure applications.

“SCEET” - “SCEET” type ducting has two plies of silicone rubber-impregnated fiberglass, similar to SCAT except wire between plies. Ideal for use in conducting extremely cold or hot air at temperatures from -80° to over 550°F, and for conveying fumes. Not reccomended for handling liquids or highly abrasive materials, or for negative pressure applications.

Dash No.	Inside Diameter	CAT		SCAT		CEET		SCEET	
		Part Number	Price Per 10 Foot	Part Number	Price Per 11 Foot	Part Number	Price Per 10 Foot	Part Number	Price Per 11 Foot
-2A	5/8 *	05-11867	--- *	05-11864	--- *	05-11888	--- *	05-11871	--- *
-3	3/4	05-11878	---	05-11869	---	05-11879	---	05-11874	---
-4	1	05-11862	---	05-11851	---	05-11875	---	05-11855	---
-5	1-1/4	05-11863	---	05-11856	---	05-12455	---	05-11861	---
-6	1-1/2	05-12437	---	05-11852	---	05-12443	---	05-11857	---
-7	1-3/4	05-12447	---	05-12439	---	05-12441	---	---	---
-8	2	05-12433	---	05-11848	---	05-12436	---	05-11853	---
-9	2-1/4	05-12449	---	05-11859	---	05-12445	---	05-11876	---
-10	2-1/2	05-12434	---	05-11850	---	05-12446	---	05-11858	---
-11	2-3/4	05-12450	---	05-11865	---	05-12452	---	05-11877	---
-12	3	05-12438	---	05-11849	---	05-12435	---	05-11854	---
-13	3-1/4	05-12459	---	05-11868	---	05-12453	---	05-11881	---
-14	3-1/2	05-12458	---	05-11872	---	05-12456	---	05-11880	---
-15	3-3/4	05-12463	---	05-11887	---	05-12462	---	05-11889	---
-16	4	05-12442	---	05-11860	---	05-12440	---	05-11866	---
-18	4-1/2	05-12457	---	05-11882	---	05-12451	---	05-11886	---
-20	5	05-12448	---	05-11873	---	05-12461	---	05-11883	---
-24	6	05-12454	---	05-11885	---	05-12460	---	05-11884	---

*** 5/8 DIAMETER PIECES ONLY COME IN 5 FOOT LENGTHS.**

ALUMINUM FLANGES FOR DUCTING

Made in the USA

Simplify installation of cabin, carb. heat, cabin vent lines. Aluminum flange may be welded or riveted in place. Slip ducting over outlet and secure with clamp.

Ducting Size	Part No.	Price
1”	10350-4	---
1-1/4”	10350-5	---
1-1/2”	10350-6	---

Ducting Size	Part No.	Price
1-3/4”	10350-7	---
2	10350-8	---
2-1/4”	10350-9	---

Ducting Size	Part No.	Price
2-1/2”	10350-10	---
2-3/4”	10350-11	---
3”	10350-12	---

2 INCH ALUMINUM SCAT TUBE INLET

This 2” Scat Tube Inlet is fabricated from 6061 Aluminum with per-drilled 3/32 rivet holes, ready to rivet to baffling.

P/N 05-12782.....---

E-A-R-COMPOSITE DAMPING FOAM

ADC-224 is a mid-temperature skin damping composite of 0.25" thick damping foam fixed with 0.005" thick aluminum foil and backed with pressure sensitive adhesive. Used in aircraft for weight efficient damping and to reduce radiated noise. Meets FAR 25.853 (A) for fire resistance.
Furnished in 27" x 48" sheets.
P/N 09-00181 .....**--- / sheet**

3M™ SOUND & VIBRATION DAMPING PANELS

Designed for damping resonant vibrations of thin sheet metal, these panels are pressure sensitive, specially compounded polyurethane damping foam with an aluminum foil backing. The adhesive on the foam is protected by a peel-off paper covering. It is an excellent insulator for conducted heat and is an excellent heat reflector. Fire-resistant and self-extinguishing per FAA test procedure. Excellent moisture resistance. Resistant to most solvents. Easily applied with only hand pressure for a permanent bond even on rough, irregular surfaces. Used extensively in commercial aircraft and highly recommended for metal home builts. Apply to firewall, fuselage — anywhere a vibration problem exists. Wt.4 oz./sq. ft., 1/4" thick. Meets FAR 25.853
3M Sound Damp Panel 6" x 48".....P/N 09-30206 .....**--- ea.**
3M Sound Damp Panel 12" x 48".....P/N 09-30212 .....**--- ea.**
3M Sound Damp Panel 18" x 48".....P/N 09-30218 .....**--- ea.**

TEFLON CHAFE TAPE

The T-300 is a Milky/Clear Teflon Chafe Tape that has an adhesive backing on one side. It is sold in a 1" x10' Package and is used between Aluminum Skins as a chafe tape .....P/N 05-11196 ..... **---**

TEFLON ANTI-CHAFE TAPE

ISD Chafe Tape is a durable Teflon material with a pressure sensitive adhesive which resists solvents, and oils. Designed specifically to prevent aluminum chafing between airframes and engine cowls. It helps prevent black streaking on aircraft exterior due to cowl chafing. Not FAA/PMA approved. Operable temperature range: -100°F to +500°F. Width: 1". Roll length: 6 yds. Tkns: .012" .....P/N 09-31805 .....**---/roll**

TEFLON COATED FIBERGLASS ANTI-CHAFE TAPE

These 1' wide rolls of Teflon on fiberglass anti-chafe tape are excellent for use on engine cowlings to keep cowl components from chafing. The tape is available in 5 mil thick and 10 mil thick and comes with a silicone adhesive on the tape. Just peel back liner and install. Rolls are 1" wide x 36 yds long.
5 Mil Anti-Chafe tape .....P/N 05-01024 .....**---/roll**
10 Mil Anti-Chafe tape .....P/N 05-01025 .....**---/roll**

UNI-WRAP SILICONE TAPE
RUBBER SELF-BONDING TAPE

UniWrap silicone rubber sealing tape bonds to itself permanently to protect, repair, join, or insulate virtually any type of part on which ordinary tape can be used. But the big difference between UniWrap and ordinary tape is that it fuses to itself permanently to form a homogenous mass and provides unprecedented protection and insulating characteristics. UniWrap uses no adhesives so it is non-tacky. It has a 12 month shelf life and after fusing is unaffected by moisture, cold, heat, ozone shock, or vibration. Meets MIL-I-46852 Type II as well as strict aerospace industry performance requirements. Available in red or black. Furnished in 10 yard rolls, UniWrap is 1" wide and 0.020" thick UniWrap.
Red .....P/N 09-30450 ..... **---**
Black.....P/N 09-05692 ..... **---**

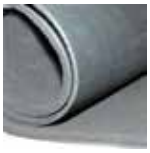
NOXUDOL SOUNDPROOFING LIQUID

A paint-on soundproofing material that is applied to metal surfaces to reduce vibration and reverberant noise. Use to fill cracks and spaces where noise can enter. Buff color and can be painted. Paint engine mounts to increase fire resistance! Odorless and non-toxic when dry. Waterbased product. Non-Flammable. Shelf life: 1-year. Not FAA approved.
Gallon .....P/N 09-00772 ..... **---**

SUPER SOUNDPROOFING TAPE

This is a 1/8" thick by 2" wide self adhesive tape that can be placed on metal panels and wrapped around ducts to reduce vibration and reverberant noise transfer. Not FAA approved. 30 ft. rolls.
1" wide.....P/N 09-00381 ..... **---/ea.**
2" wide.....P/N 09-42745 ..... **---/ea.**
4" wide.....P/N 09-00433 .....**---/roll**

SUPER SOUNDPROOFING FLOOR MAT



This heavy duty, wear resistant vinyl mat with foam backing can be placed on aircraft floors to reduce noise & vibration. 48" width
Without foam backing .....P/N 09-42751 .....**---/lin.ft.**

HOW TO SOUNDPROOF LIGHT AIRCRAFT

Sound measurement indicates that sometimes the noise levels are so high in some aircraft that damage to hearing over time can result. This "How-To" manual discusses the advanced techniques to sound proofing the light aircraft and drastically reducing such noise. Information presented is applicable to all types of planes from "puddle-jumpers" to jets.
P/N 09-42755 ..... **FREE**

SUPER SOUNDPROOFING SHEET WITHOUT ADHESIVE

This material is excellent for reducing noise levels in all types of certificated and homebuilt aircraft. It is a closed cell vinyl insulating material which will not absorb water or oil. Has fire retardant qualities and meets FAR 25.853a Appendix F, Pt1. It is smooth on one side for easy attachment to the inside cabin skins, sides, top and front firewall. Excellent for helicopters as well. Furnished in bulk 48" wide sheet, it is easily cut by scissors and attached with contact cement. Available in black only.
Note: this material is priced and sold per foot.
The Flammability Report (Burn Certs) are available on request.

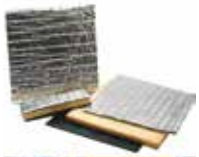
Thickness	Wt. / Lineal ft.	Part Number	Price
1/4"	.60 lbs.	09-42720	---
3/8"	.80 lbs.	09-42723	---
1/2"	1.0 lbs.	09-42725	---
3/4"	1.4 lbs.	09-42727	---
1-1/2"	3.0 lbs.	09-72731	---
2"	4.0 lbs.	09-42760	---

SUPER SOUND PROOF WITH ADHESIVE

Super Soundproofing Foam Mat for noise control: A closed cell vinyl-nitride noise control FOAM suitable for application to cars, boats, planes, home and office, anywhere a noise control mat is needed. Won't absorb moisture or odor, long lasting and durable. An excellent thermal insulator! (FAA Approved for aircraft, too!) Just apply with vinyl or contact cement to reduce and absorb sound. There may be small variances in the width of this product.
****Note: this material is priced and sold per foot unless otherwise noted.****
1/8" w/adhesive **36"X48" Sheet** .....P/N 09-06381 ..... **---**
1/4" w/adhesive **36"X48" Sheet** .....P/N 09-06377 ..... **---**
3/8" w/adhesive .....P/N 09-00443 ..... **---**
1/2" w/adhesive .....P/N 09-00444 ..... **---**
3/4" w/adhesive .....P/N 09-01245 ..... **---**
1" w/adhesive .....P/N 09-01246 ..... **---**
2" w/adhesive .....P/N 09-01247 ..... **---**

AP

SEE THE ENGINE PARTS SECTION OF THE CATALOG FOR MORE INSULATION PRODUCTS!



SOUNDEX PREMIUM AIRCRAFT SOUNDPROOF AND MATERIALS PACKAGES

SoundEx™ is a premium aircraft soundproofing / insulation that incorporates excellent vibration damping and noise absorption properties. SoundExTM is a superior product compared to other products on the market because of its thermal qualities, adds less weight to aircraft (6.11 oz. per sq. ft. for 1" thickness and 5.8 oz. per sq. ft. for 3/4" thickness), and affordability. Stop the yelling and make flying fatigue a thing of the past. Improve your quality of flight with SoundExTM.

Decibel Reduction Data - Decibel reductions will vary depending upon how well your aircraft is currently insulated. Our latest data indicate that you should expect noise level reduction from 4-7 dB(a) and 10-15 dB(c). From singles and light twins to corporate jets, SoundEx™ is the noise reduction option of choice. Pilots and passengers can fly and communicate in comfort.

Flammability Requirements - All materials are manufactured to meet requirements for FAR 23:856 / FAR 25:856 Part II. Aircraft specific testing may be required for return to service.

No.	Aircraft Model	Basic Materials (sidewall above floor/roof)		Deluxe Materials (basic + floor/belly)		SX-250 Footage (black mat for under carpet)
BEECHCRAFT						
SX-01	Bonanza 35-E35	05-04256	---	05-04256-1	---	N/A
SX-02	Bonanza F35-M35	05-10770	---	05-10770-1	---	N/A
SX-03	Bonanza N35-P35, C33-E33, and F33C (and older with long 3rd window added)	05-04312	---	05-04312-1	---	N/A
SX-04	Bonanza/Baron S35-V35/F33/A55-B55 (and older with large baggage and long 3rd window added)	05-04313	---	05-04313-1	---	N/A
SX-05	Bonanza/Baron F33-G33 and B55-E55 (with extended baggage)	05-04314	---	05-04314-1	---	N/A
SX-06	Bonanza/Baron 36-A36 and B58 (through 1978	05-04315	---	05-04315-1	---	N/A
SX-07	Bonanza/Baron A36-B36 and B58 (1978 and newer) (with extended baggage)	05-04316	---	05-04316-1	---	N/A
SX-08	Bonanza 33/35/36 Windsh/d set (without factory speedslope) Includes upper material forward of instrument panel	05-04317	---	N/A	N/A	N/A
SX-09	Bonanza 33/35/36 Windsh/d set (with factory speedslope) Includes upper material forward of instrument panel	05-04318	---	N/A	N/A	N/A
SX-10	Duke	05-04319	---	N/A	N/A	**9 ft.**
CHEYENNE						
SX-42	Cheyenne I & II	05-07161	---			
KING AIR 90						
SX-44	King Air 90	05-07158	---	N/A	N/A	-
KING AIR 300 COMING SOON						
*Ensure you order the correct Bonanza Materials by checking the following modifications: • Bonanza 35-E35 with tiny 3rd window modification, order Materials for F35-M35. • Bonanza 35-M35 (or A33-B33) with large third window and hat shelf modification, order Materials for N35-P35. • Bonanza 35-P35 (or A33-E33) with large third window and expanded baggage modification, order Materials for S35-V35B.						
PIPER						
SX-11	Comanche PA24/PA30 (through 1963) (*Floor not drilled for access)	05-04320	---	05-04320-1	---	N/A
SX-12	Comanche PA24/PA30 (1964 and 1965)	05-04321	---	05-04321-1	---	N/A
SX-13	Comanche PA24/PA30 (1966 and newer)	05-04322	---	05-04322-1	---	N/A
SX-14	Early Arrow, Cherokee, Warrior PA28-160, 180, 235	05-04323	---	N/A	N/A	**9 ft.**

No.	Aircraft Model	Basic Materials (sidewall above floor/roof)		Deluxe Materials (basic + floor/belly)		SX-250 Footage (black mat for under carpet)
PIPER CONT.						
SX-15	Arrow, Cherokee, Warrior PA28-160, 180, 235	05-04324	---	N/A	N/A	**9 ft.**
SX-16	Cherokee Six, Seneca, Lance, Saratoga PA32, PA34	05-04325	---	N/A	N/A	**11 ft.**
SX-18	Navajo	05-04327	---	N/A	N/A	**12 ft.**
SX-34	Aztec	05-04329	---	N/A	N/A	**13 ft.**
TOMAHAWK						
SX-29	Tomahawk	05-07159	---	N/A	N/A	-
CESSNA						
SX-35	150	05-04330	---	N/A	N/A	**6 ft.**
SX-36	152	05-04331	---	N/A	N/A	**6 ft.**
SX-24	170	05-04332	---	N/A	N/A	**8 ft.**
SX-20	172	05-04333	---	N/A	N/A	**8 ft.**
SX-32	177, 177 RG	05-04334	---	N/A	N/A	**9 ft.**
SX-37	180/185	05-04335	---	N/A	N/A	**8 ft.**
SX-21	182 (except earliest without rear window)	05-04336	---	N/A	N/A	**8 ft.**
206	Coming Soon!					
SX-22	210 (except earliest without rear window)	05-04337	---	N/A	N/A	**8 ft.**
SX-23	310 (without rear window)	05-04338	---	N/A	N/A	**10 ft.**
SX-24	310	05-04339	---	N/A	N/A	**10 ft.**
SX-26	337, 337P	05-04340	---	N/A	N/A	**8 ft.**
SX-25	340	05-04341	---	N/A	N/A	**12 ft.**
SX-33	414A	05-04342	---	N/A	N/A	**13 ft.**
COMMANDER						
SX-43	112/114	05-06834	---	N/A	N/A	**8 ft.**
MOONEY						
SX-27	M20 to M20E	05-04344	---	N/A	N/A	**6 ft.**
SX-28	M20F to M20K	05-04345	---	N/A	N/A	**7 ft.**
M20L to M20S Coming Soon!						
NAVION						
SX-31	A, B	05-04346	---	N/A	N/A	N/A
VAN'S RV (EXPERIMENTAL)						
SX-30	RV-8 (Firewall, Sidewalls, Belly)	N/A	N/A	05-04349-1	---	N/A
SX-40	RV-10 Firewall Sidewalls, Belly	N/A	N/A	05-04350-1	---	N/A
BULK MATERIAL						
SX-1000	1-1/8" x 36" x 48" SoundEx Sheet			05-04353	---	**per sheet**
SX-750	7/8" x 36" x 48" SoundEx Sheet			05-04354	---	**per sheet**
SX-600	3/4" x 36" x 48" Black Mat			05-04357	---	**per sheet**
SX-500	1/2" x 48" Black Mat			05-04358	---	**per roll ft.**
SX-250	1/4" x 48" Black Mat			05-04359	---	**per roll ft.**
SX-125	1/8" x 36" x 48" Black Mat			05-04360	---	**per sheet**
SXT-200	2" Aluminum Foil Tape			05-04364	---	**per roll ft**
SX-1357	SoundEx Glue			05-04365	---	**per 6oz. tub**

THE INSULATOR
AIRCRAFT INSULATOR MATERIAL

The Insulator is one of the finest sound proofing and thermal insulation materials available, and will last the life of the aircraft. The dual sided Insulator panels are ideal for installation on interior skin, floor, engine covers, doors, headliners, and bulkheads. The Insulator uses multi - layered fiber plys bonded to reinforced high performance foil to provide optimum barrier to acoustics, radiant heat, thermal heat, and moisture. Insulator is available in 4'x 6' panels or by the lineal foot (4' wide). Install Insulator with Sticky Stuff spray adhesive (shown below) and Insul-Tape. Not FAA approved.

INSULATOR PANELS

Insulator – one ply 4' x 6' sheet. Single sided only.
3/8" thick.....P/N 09-27400 ..... **--- ea**

INSULATOR BY THE FOOT

Single side foil, single layer #6014; 4 ft. wide. Max Temp: 200°F
P/N 09-06014 .....**--- /ft.**
Double side foil, single layer #6016; 4 ft wide. Max Temp: 200°F
P/N 09-06016 .....**--- /ft.**

INSULATION TAPE

Insulation Tape. This item is a commercial version of the government specification Mil-P-15280. It is an adhesive backed tape with a smooth upper surface.

Size	Part No.	Price
1/8"X1"x30ROLL	05-11197	---
1/8"X2"x30ROLL	05-11198	---
1/8"X1/4"x10ROLL	05-11199	---
1/8"X1/2"x30ROLL	05-11200	---

BLANKET IN-A-BOX

Insulating your aircraft made easy! Blanket is ready to install as is or can be modified to fit special areas. Each box contains all the materials to insulate your aircraft including an Orcotek strip blanket, tape, cutting knife, instructions and built-in work surface with measuring grid.
Furnished as follows:
1" blanket-in-a-box contains 1 roll (1"x20"x100') Orcotek strip blanket, 2 rolls of Orcotape OT-16A (2"), utility knife, dispenser box-work platform. ...
P/N 09-45005.....**---/box**
2" blanket-in-a-box contains 1 roll (2"x20"x50') Orcotek strip blanket 1 roll of Orcotape OT-16A (3"), utility knife, dispenser box/work platform.
P/N 09-45010 **---/box**

3M™ 361 GLASS CLOTH TAPE

Constructed with a woven fiberglass backing, 3M™ Glass Cloth Tape 361 features a pressure sensitive silicone adhesive for applications requiring high-temperature resistance, high adhesion and clean removal. It is often used for high temperature applications such as sealing ducts and as a back-up strip for submerged arc welding.
Colors: White. 60 yd. roll..... P/N 09-05773 ..... ---

CONTEGO FIRE BARRIER LATEX PRIMER
-THE FIRE STOPS HERE-

Contego protects most building materials from the ravages of fire. Contego intumescent fire barrier products are all non-toxic, non-dermatic, and safe for pets. When exposed to fire, Contego fire retardant coatings expand to form a tough char barrier fire cannot penetrate. Deprived of fuel, the fire quickly dies. Contego not only helps prevent fires, it minimizes deadly smoke production, one of the leading causes of fatalities in residential and commercial fires. Intumescent fire barriers are nothing new, but Contego Passive Fire Barrier Latex represents a quantum leap forward in terms of quality, versatility, affordability and fire safety-all in one truly impressive fire proofing product.
Size: Quart .....P/N 05-02615 ..... ---

INSULATION REPAIR & FABRICATION TAPE

Orcotape OT-16A is a lightweight, pressure sensitive, reinforced, metallized polyvinyl fluoride tape which is designed to be used in the fabrication, repair & installation of thermal/acoustic blankets. It is the companion tape to be used with the Orcotek strip blanket to seal the edges. Furnished in 60yd rolls.
2" width..... P/N 09-04565..... **---/ea.**
3" width..... P/N 09-04566..... **---/ea.**

ORCOTEK STRIP BLANKET

Aircraft insulation by the foot. This durable, state-of-the-art, light weight blanket meets the thermal and acoustic requirements of the major aircraft manufacturers and is now available for your airplane. The blanket consists of fiberglass enclosed in moisture barrier. It can be used as is or cut in special shapes. Use Orcotape OT-16A 2" or 3" tape to seal the open edge(s) of the blanket. Strip blanket available in 1" thick x 20" wide or 2" thick x 20" wide. Complete 50ft rolls available.
2" thick x 20" wide ..... P/N 09-45020..... **---/linear ft.**

FIBERGLASS INSULATION BLANKET

Ultra-light FAA compliant Thermal/Acoustic Insulation by the foot. The blanket consists of a covering film qualified to Boeing Material Spec. (BMS) BMS8-377 Ty I & II, Cl 1 and fiberglass qualified to BMS8-48 Ty III, Cl 2, Gr A. These materials meet the FAR25.856(a) flammability regulations as required per the BMS and are available in 1 " or 2" thickness. The generic blanket can be cut to shape and edges sealed with BMS5-157 Ty 1, Cl 1 2 or 3, Gr A, Form 1 Tape. Complete 50ft. rolls available.
1" x 20" .....P/N 09-04520 ..... ---
2" x 20" .....P/N 09-04521 ..... ---

3M™ INTERAM CERAMIC BLANKET 49 INCHES BY 25 FEET

3M Interam Mat I-10A, 49 inches by 25 feet (one roll): Ceramic fiber based material that expands into low-density insulation blankets when exposed to high temperatures or flames. Outer foil layer is aluminum.
P/N 03-00136 ..... ---

VALCO CINCINNATI MULTI-PURPOSE SEALANT

Valco Cincinnati multi-purpose sealant is a paste-like, one component material that cures to a tough, rubbery solid upon exposure to moisture in the air. This sealant can be applied overhead or on sidewall joints and surfaces without sagging, slumping or running off. It adheres to clean metal, glass, most types of wood, silicone resin, vulcanized silicone rubber, ceramic, natural and synthetic fiber, and painted and many plastic surfaces.
Effective to -46°C (-50°F). Fully cured Valco multi-purpose sealant can be used for extended periods at temperatures up to 204°C (400°F), and for shorter periods as high as 218°C (425°F)
3 oz. tube .....P/N 09-00277 ..... ---
11.17 oz. tube .....P/N 09-00278 ..... ---

DOWSIL™ 832 MULTI-SURFACE ADHESIVE SEALANT BLACK

DOWSIL™ 832 Multi-Surface Adhesive Sealant Black is a one component, non-slumping silicone paste that is used for protecting, sealing, and bonding a variety of materials such as concrete, glass, plastics, metals, and rubber. It is recommending for marine equipment, assembly equipment, roof penetrations, concrete floor seams, and windows. It offers unprimed adhesion, low odor, neutral cure, flexibility, and is non-corrosive. 100 percent silicone RTV rubber. Forms flexible, long-lasting seal.
P/N 09-06157 ..... ---

VHT FLAMEPROOF COATINGS

Originally designed for NASA's reentry spacecraft, VHT FlameProof is a scientifically formulated compound designed to withstand temps. up to 1500°F (816°C) VHT It survives where other paints can't, shields & protects, maintains the finish, prevents rust & corrosion, and resists oils & solvents. For aircraft applications the typical use is on high temperature steel components such as exhaust & turbocharging systems. Excellent for use as a heat resistant & anti-corrosion coating on exhaust manifolds and turbine casings. Both Flat Aluminum and Flat Black are non-facing colors.
Flat Aluminum 16 oz. aerosol spray.....P/N 08-00713 ..... ---
Flat Black 16 oz. aerosol spray.....P/N 08-00714 ..... ---

AP

BAFFLING MATERIAL

AP

FIBERFRAX

A new material made from washed ceramic fibers with binders added to form a lightweight, flexible asbestos-free insulation. Withstands temperatures to 2300° F. Excellent for aircraft firewalls. Available in 24" wide rolls in 1/16" and 1/8" thicknesses.

1/16" Thick .....P/N 05-02678 ..... **--- Lin ft.**
1/8" Thick .....P/N 05-02679 ..... **--- Lin ft.**

FIBERFRAX HI TEMP COATING

Used as a hi temp coating over Fiberfrax, or other porous materials. Can also be used as an adhesive to bond Fiberfrax or other porous material together. Coverage: 15 sq. ft. per pint & 120 sq. ft per gallon.

Pint .....P/N 05-00800 ..... ---
Gallon .....P/N 05-00900 ..... ---
5 Gallon Pail.....P/N 05-00910 ..... ---

NEOPRENE BAR

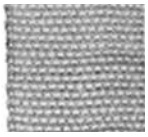
Neoprene bar of proper Shore hardness for fabrication of shock absorber donuts. Used in Osprey II nose gear. Available in 2 sizes:

1/2" Th x 2" W .....P/N 05-02000 ..... **---/ft.**

RUBBER SHEET PACKING

Will not deteriorate in petroleum products. Recommended for oil and solvent service. Wt. 6 oz. per sq. ft. 1 Size: 1/16" thick x 36" wide roll. Sold in 36" 1 width only. Price is per Lin. Ft ...P/N 05-01000 ..... ---

HEAT-PROOF TAPE



Heat-proof and fire resistant. Made of woven fiberglass. Non-metallic, commercial grade. Withstands up to 1000°F. 2" wide x 1/16" thick. Wt. 4-1/2 lbs. per 100 ft. roll .....P/N 09-31500 ..... **---/ft.**

FIREWALL 2000 CERAMIC BLANKET

This blanket has been known to be flexible enough to cover compound curves. The heat side of the blanket is covered with stainless steel, the other side is aluminum It is easy to rivet or can be glued into position. Sold by the running foot. Temp. range up to 1000F. 24 inch wide. Note: There is a stainless steel sheet glued on to one side for extra protection. Tech Data Sheet does not include any info on this extra steel sheet.

P/N 05-00948 ..... ---

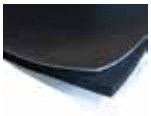
3M™ FIRE BARRIER 2000

A premium nonslump sealant bonds to most common construction material to form a flexible seal. Superior Adhesion. Remains elastomeric and is weather resistant. This product is great for through penetrations and may also be used for fire rated construction joints.....P/N 05-00949 ..... ---

FIREWALL 2000 KIT

Contains 24"x48" sheet of Firewall 2000 and one tube of firewall caulk .....P/N 05-00950 ..... ---

FIREWALL BLANKET



Firewall blanket is black in color. Note: This material is used for cosmetic purposes on the inside portion of a firewall to cover up an unsightly firewall. It is not fireproof and is not an actual firewall material. The maximum sheet size is 36" x 48"

36" x 48" sheet.....P/N 09-00276 ..... ---
24" x 48" sheet.....P/N 09-00276-2 ..... ---
12" x 48" sheet.....P/N 09-00276-1 ..... ---

KOOLMAT HEAT BARRIER

A .070 thick fiberglass textile cured to a 1/8" silicone substrate. The latter providing a good wear resistant surface. Can be used on steel, aluminum, fiberglass, wood and plastic surfaces. It is good to temperatures up to 1000° F and reduces cockpit heat up to 75%. Contains no asbestos. Can be used to insulate cowl and firewall forward area. (Not used on exhaust) Color: gray on top side (silicone) and white woven cloth (fiberglass). Wt: .72 lbs. per sq. ft. Sold in 30" width by the lineal foot.

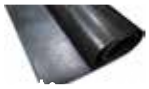
Gray.....P/N 09-24730..... **---/lin ft.**

ENGINE BAFFLE TEXTURED FINISH

FAA approved replacement Engine Baffle. This material is easily identifiable by its textured finish. 32oz fiberglass reinforcement mat. Boasts a -60 to 550°F range.

Color	Size	Part No.	Price	Size	Part No.	Price
Black	1/8" x 3" x 9'	05-04656	---	1/8" x 36" x 40"	05-04657	---
Red	1/8" x 3" x 9'	05-04658	---	1/8" x 36" x 40"	05-04659	---
Blue	1/8" x 3" x 9	05-04660	---	1/8" x 36" x 40"	05-04661	---

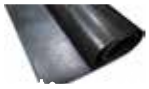
NEOPRENE COATED PYROGLASS CLOTH



This neoprene coated cloth is designed for applications where its superb heat and flame resistance provide an extra margin of protection for people and equipment. Self-extinguishing, it is used as aircraft firewall barriers, protective sleeves and tadpole tape covers, flat seals, gaskets, mounts and door seals. It is ozone and weather resistant, and can be used against caustics, gasoline, oil, water and steam. It does not support combustion and will operate in continuous temperatures from -40°F to +200°F. Thickness .070". Sold in 60" Width only.

P/N 05-00600 .....**--- ft.**

PRE-CUT PYROGLASS CLOTH BAFFLE STRIP



Cut from Pyroglass cloth above.

3"x 84 .....P/N 05-00700 ..... ---

COWL SAVER BAFFLE SEAL MATERIAL

05-03405

Cowl Saver™ Baffle Seal Material has 10 times Less Friction! - One side is silicone and the other is the revolutionary friction free surface unique to the patent pending Cowl Saver™. Cowl Saver™ dramatically reduces the friction between your cowl and baffle seals.

Low Friction Saves You Money! - Reduces transfer of damaging engine vibration to the engine cowl Minimizes cowl chaffing and erosion from baffle seals. Extends baffle seal life. Reduces expensive cowl and cowl fastener repairs. Reduces fatigue and cracking in aluminum baffles and cowl skins.

The cowling even goes on easier! - Unbeatable Performance. Ideal balance of flexibility and stiffness to insure a proper seal. Fiberglass reinforced. Meets industry standard AMS3320G specification. McFarlane quality you can count on! Not FAA-PMA approved.

Part Number	Thickness	Size	Color	Spruce	Price
CS085X36X36G	.085"	36" x 36"	Gray	05-03403	---
CS085X18X36G	.085"	18" x 36"	Gray	05-03404	---

ACCESSORIES

6036 BAFFLE SEAL RETAINER STRIP - A baffle seal retainer strip used as a retainer for riveting baffle seals to baffles. 7/16 inch x 12 inch strips - Cut to desired length during installation.....P/N 05-03399 ..... ---

RIVET KIT 2 - A baffle seal rivet kit containing soft Mil-Spec rivets that will not deform the baffles. Several sizes are included for various baffle thickness and hole sizes.....P/N 05-03401 ..... ---

BAFFLE-KIT- 2 - This new baffle kit with more material. This kit is best for larger aircraft or curved baffle seals that cannot be cut from three inch strips. The new kit includes (1) 18x36 inch piece of Cowl Saver™ material, (2) Baffle Seal Rivet Kits and (10) Baffle Seal Retaining Strips. .....P/N 05-04108 ..... ---

INSPECTA-SHIELD
FIRE RETARDANT PENETRANT

Inspecta-Shield is a durable, non-toxic, fire retardant chemical penetrant which when cured and dried, is odorless and colorless. Will retard flame in materials such as fabrics, poly foam, paper, and wood. Will generally last for the life of the product to which it has been applied. Inspecta-Shield is environmentally compatible and will protect surfaces up to 2,200°. These surfaces will retain their color and resist sun rot up to 50% longer. A Class A rated flame retardant that meets F.A.R. 25.853 (a & b). 1qt. spray bottle will treat an area of 150 sq. ft. Can be applied with most garden and household sprayers. **Note:** Inspecta-Shield is corrosive to aluminum and other metals. If it comes in contact with metals be sure to wipe off metal and clean thoroughly.

Quart..... P/N 09-05760 ..... ---
Gallon .....P/N 09-00274 ..... ---

SEE THE ENGINE PARTS SECTION OF THE CATALOG FOR MORE INSULATION PRODUCTS!

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BAFFLE SEALS – CHAFE SEALS

SILICONE BAFFLE SEALS

Excellent for replacement of baffle seals. It exceeds asbestos type seals in durability and flexibility over its entire operating heat range of -80 F to +425 F..
Available in red, blue & black.

IRON OXIDE RED: Meets Mil Spec ZZR765B. ISR3 meets Mil Spec AMS3320 (P/N 05-00770, 05-00771-3, 05-00771) AMS3303 for all others.
3/32" thick x 3" wide x 9' long ..... P/N 05-00775 ..... ---
3/32" thick x 36" wide ..... P/N 05-00781 ..... ---/ft
3/32" thick x 3" wide ..... P/N 05-00781-3 ..... ---/ft
1/8" thick x 2" wide x 9' long ..... P/N 05-00795 ..... ---
1/8" thick x 3" wide x 9' long ..... P/N 05-00755 ..... ---
1/8" thick x 4" wide x 9' long ..... P/N 05-00760 ..... ---
1/8" thick x 36"wide ..... P/N 05-00772 ..... ---/ft
1/8" thick x 2" wide ..... P/N 05-00772-2 ..... ---/ft
1/8" thick x 3" wide ..... P/N 05-00772-3 ..... ---/ft
1/8" thick x 4" wide ..... P/N 05-00772-4 ..... ---/ft
1/8" thick x 3"W x 9' w/ fiberglass insert ..... P/N 05-00770 ..... ---
1/8" thick x 36"W w/ fiberglass insert ..... P/N 05-00771 ..... ---/ft
1/8" thick x 3" wide w/ fiberglass insert ..... P/N 05-00771-3 ..... ---/ft

LIPSTICK RED: Meets Mil Spec ZZR765B. ISR3 meets Mil Spec AMS3303.
3/32" thick x 36" wide ..... P/N 05-00786 ..... ---/ft
3/32" thick x 3" wide ..... P/N 05-00786-3 ..... ---/ft

DARK BLUE: Meets Mil Spec ZZR765B. ISR3 meets Mil Spec AMS3303.
3/32" think x 3" wide x 9' long ..... P/N 05-03055 ..... ---
3/32" thick x 3" wide ..... P/N 05-01831-3 ..... ---/ft
3/32" thick x 36" wide ..... P/N 05-01831 ..... ---/ft

BLUE: Meets Mil Spec ZZR765B. ISR3 meets Mil Spec AMS3303.
3/32" thick x 3" wide x 9' long ..... P/N 05-00790 ..... ---
3/32" thick x 36" wide ..... P/N 05-00806 ..... ---/ft
3/32" thick x 3" wide ..... P/N 05-00806-3 ..... ---/ft
1/8" thick x 3"W x 9' w/ fiberglass insert ..... P/N 05-00792 ..... ---
1/8" thick x 36"W w/ fiberglass insert ..... P/N 05-00791 ..... ---/ft
1/8" thick x 3" wide w/ fiberglass insert ..... P/N 05-00791-3 ..... ---/ft

BLACK: Meets Mil Spec ZZR765B. ISR3 meets Mil Spec AMS3303 (P/N 05-00810, 05-00811, 05-00811-3) AMS3320 for all others.
3/32" thick x 3" wide x 9' long ..... P/N 05-00810 ..... ---
3/32" thick x 36" wide ..... P/N 05-00811 ..... ---/ft
3/32" thick x 3" wide ..... P/N 05-00811-3 ..... ---/ft
1/8" thick x 3"W x 9' w/ fiberglass insert ..... P/N 05-00826 ..... ---
1/8" thick x 36"W w/ fiberglass insert ..... P/N 05-00825 ..... ---/ft
1/8" thick x 3" wide w/ fiberglass insert ..... P/N 05-00825-3 ..... ---/ft

ASSORTED SILICONE 50 FEET: This is a 50 foot assortment of silicone lengths, thicknesses and colors ..... P/N 05-04565 ..... ---

AIRCRAFT BAFFLE SEAL KITS

These pre-cut baffle seal kits are cut to original specifications. Please specify aircraft make, model, serial number, and color of seal. Kits are furnished with rivets, washers, drill bits, & silicone. **P/N 00-00103**

CALL FOR PRICE AND P/N OF KIT FOR YOUR AIRCRAFT or VISIT www.aircraftspruce.com FOR BAFFLE KIT INFORMATION.

COWL SEAL HARDWARE & TOOLS

GB4-4A: Baffle Seal Pop Rivet, Button Head. 1/8" Dia. x 3/16" Grip Requires a metal baffle strip or back-up washer to secure.
Pkg. of 100 ..... P/N 05-56100 ..... ---

GB-A4: Back-up Washers
Pkg of 150 ..... P/N 05-56130 ..... ---

GB-SF- 3/16: Baffle Seal Fastener (Post Type) for joining sides or overlapping of baffle material. Includes one male and one female piece. 1/8" NPT.
Each ..... P/N 05-56140 ..... ---

GBL4-4A: Baffle Seal Pop Rivet, Large Flange, Silver. 1/8" Dia. x .187" - .250" grip range
Qty. 100 ..... P/N 05-00134 ..... ---

GBL4-4AB: Black Pop Rivet, large flange for black baffle seal 1/8" x 3/16" grip. GBL4-4AB.
Qty 100 ..... P/N 05-00483 ..... ---

SILICONE REVOLVING PUNCH TOOL: Makes various size holes in baffle material.
Each ..... P/N 72 ..... ---

BLACK COWL SEAL

1/16" x 3" x 9' Cowl & Engine Baffle Seal First quality woven fiberglass cloth heavily impregnated with neoprene for unsurpassed durability. -40° to 300°. Black. TA-8071. MIL-R-6855.
1/16" x 3" x 9' Roll... P/N 06-02461 ..... ---

COWLING CHAFE CLOTH

Off-white, 100% non-asbestos woven tape. Unaffected by most chemicals and temperatures.
1" x 15 ft. Roll..... P/N 09-31800 ..... ---

A-56-12 COWL CHAFE SEAL 3/4"

Phenolic-cure Nigen Cotton Webbing used on engine cowls to protect where overlapping the airframe. Not affected by cold, heat or most solvent chemicals. 1/16" thick.
P/N 05-11171 ..... ---

AEROSTAR ENGINE COWL ANTI-CHAFING LINER

Marsh Brothers Aerostar Engine Cowl Anti-Chafing Liner kit (Chafe Protection) provides protection of the interior surface of the engine cowl where the engine airframe seals contact with the upper engine cowling assembly.
By providing a tough abrasion resistant surface made from Marsh Brothers proprietary material AeroLas-White, wear on the aluminum upper engine cowl is eliminated.
Unlike most other chafe protection material available our anti-chafing liners do not have an adhesive backing. Instead, they are bonded in place using 3M DP420 two-part epoxy (not included in the kit). This results in a significantly stronger bond ..... P/N 05-27284 ..... ---

FIBERGLASS CLOTH BAFFLE MATERIAL

The same material used by several OEM aircraft manufacturers. Neoprene coated fiberglass cloth is heat & flame resistant, self-extinguishing, ozone & weather resistant, & will not support combustion. Temperature range -40F to +200F. AMS3783.

Black 3" x 9" Roll ..... P/N 05-12642 ..... ---
Black 36" x 36" Sheet ..... P/N 05-12643 ..... ---

SILICONE CEMENT WITH CATALYST

This silicone cement is the same cement that is included with some of the chafe seals and is excellent for attachment of any silicone seal.
Note: GBSC-2 or GBSC-4 silicone cement to apply silicone seals requires silicone cement only for application.Storage & Shelf Life: • Best if refrigerated under 70° • 18 months shelf life when stored properly • Easier to fill
2.5 oz. ..... P/N 05-13310 ..... ---

BAFFLE FASTENER KIT

Screw Fastener (Post Type) for joining sides or overlapping of baffle material. Includes one male and one female piece. GB-SF-3/16 8-32 Threads.
P/N 05-01829 ..... ---

INDIVIDUAL FASTENERS

Male 8-32 Thread ..... P/N 05-01235 ..... ---
Female 8-32 Thread ..... P/N 05-01236 ..... ---

AP

DOWSIL SEALANTS

Sealants are used to block the penetration of liquids, gases, dust, and other contaminants by creating an adhesive barrier. Ellsworth Adhesives supplies anaerobic, silicone, polyurethane, and UV curing sealants. Products are available with a wide range of properties including base chemistry, cure mechanisms, bond strength, elongation, viscosity, weatherability, and dispensing options. Sealants are widely used for transportation, defense, consumer products, battery, general industry, lighting, medical, and power applications. Refer to the Technical Data Sheet for activator and primer recommendations for specific products.

DOWSIL™ 786 SEALANT M

White ..... P/N 09-06156 ..... ---
Clear ..... P/N 09-06155 ..... ---

DOWSIL™ 738 ELECTRICAL SEALANT

White 90 ml ..... P/N 09-06153 ..... ---
White 300 ml ..... P/N 09-06154 ..... ---

DOWSIL™ 736 HEAT RESISTANT SEALANT

DOWSIL™ 736 Heat Resistant Sealant non-slumping sealant designed for sealing and bonding applications exposed to temperatures as high as 315°C (600°F) ..... P/N 09-06151 ..... ---

DOWSIL™ 737 NEUTRAL CURE SEALANT

Black 10 oz ..... P/N 09-06144 ..... ---
White 10 oz ..... P/N 09-06146 ..... ---

DOWSIL™ 734 FLOWABLE ADHESIVE SEALANT

White 3 oz ..... P/N 09-06149 ..... ---
White 10 oz ..... P/N 09-06150 ..... ---
Clear 3 oz ..... P/N 09-06147 ..... ---
Clear 10 oz ..... P/N 09-06148 ..... ---

DOWSIL™ 733 GLASS & METAL SEALANT

Black 10.1 oz ..... P/N 09-06139 ..... ---
Clear 10.1 oz ..... P/N 09-06140 ..... ---
White 10.1 oz ..... P/N 09-06141 ..... ---

DOWSIL™ 732 MULTI-PURPOSE SEALANT PAIL

Black 10.1 oz ..... P/N 09-06136 ..... ---
Clear 10.1 oz ..... P/N 09-06138 ..... ---
White 10.1 oz ..... P/N 09-06137 ..... ---

DOW CORNING® 730 FS SOLVENT RESISTANT SEALANT

Dow Corning®730 FS Solvent Resistant Sealant is a ready-to-use, solventless, nonslumping fluorosilicone rubber paste that reacts with moisture in the air to form a tough, rubbery solid. It is a fluid-resistant material that is ideally suited for use in many applications where resistance to fumes, splash, and sometimes even total immersion in fuels, oils and solvents is needed. Dow Corning 730 FS Solvent Resistant Sealant features good resistance to weathering, vibration, moisture, ozone, and temperature extremes. It retains its flexibility over a wide temperature.
3 oz. tube ..... P/N 09-00383 ..... ---

DOW SILASTIC RTV

General-purpose single-component silicone rubber. Adheres to metals, glass, paint, ceramics, most plastics, and wood. Cures to a firm silicone rubber in 24 hours at room temperature. Seals windshield glass, windows, repair worn rubber parts.

#732 RTV (Clear), 3 Oz. Tube ..... P/N 09-04406 ..... ---
#732 RTV (Clear), 4.7 Oz. Tube ..... P/N 09-27800 ..... ---
#732 RTV (Clear) 10.10 Oz. ..... P/N 09-05636 ..... ---
#732 RTV (White), 3 Oz. Tube ..... P/N 09-04407 ..... ---
#732 RTV (White), 4.7 Oz. Tube ..... P/N 09-27810 ..... ---
#732 RTV (White), 10.10 Oz. Tube ..... P/N 09-04366 ..... ---
#732 RTV (Black), 4.7 Oz. Tube ..... P/N 09-27815 ..... ---
#732 RTV (Black), 3 Oz. Tube ..... P/N 09-04367 ..... ---
#732 RTV (Black) 10.10 Oz. ..... P/N 09-05611 ..... ---
#736 Red Silicone, 3 Oz. Tube ..... P/N 09-27900 ..... ---
#736 Neutral Cure Sealant (Clear) ..... P/N 09-05339 ..... ---

DOW CORNING RTV-3145 ADHESIVE/SEALANT

Sealing openings in modules and housings; adding mechanical stability to individual components; assembly of components on PWBs; sealing in and around wires and electrical leads; yoke assembly.

Clear ..... P/N 09-02041 ..... ---
Gray ..... P/N 09-02042 ..... ---

DOW CORNING 706 RED SILICONE CARTRIDGE 305ML

•Cures to 100% silicone rubber•Resistant to sunlight and weather extremes•Fast cure, high strength•Performs in high temperature applications, up to 500°F (260°C) continuously, and 550°F (288°C) intermittently•Remains flexible; will not become brittle, crack, shrink or chalk•Supplied in removable, reusable, resealable nozzle that saves time and sealant800 ml ..... P/N 09-06415 ..... ---

PLIOBOND

Pliobond #20 is a viscous, quick setting highly versatile adhesive. Bonds metal; wood, plastics, fabrics; ceramics, glass, vulcanized rubber, paper, leather and concrete. Thin with MEK.

1/2 Pt. Brush Top Can ..... P/N 09-28000 ..... ---
Pint Can ..... P/N 09-28100 ..... ---
Quart Can ..... P/N 09-28200 ..... ---

PLIOBOND 25 LV

Pliobond #25 LV is a viscous, quick setting highly versatile adhesive. Bonds metal; wood, plastics, fabrics; ceramics, glass, vulcanized rubber, paper, leather and concrete. Thin with MEK.

1/2 Pint ..... P/N 09-03812 ..... ---
Pint ..... P/N 09-03813 ..... ---
Quart ..... P/N 09-03814 ..... ---

PLIOBOND 30

PLIOBOND 30 is a general purpose thermosetting adhesive, it provides tough, chip resistant bonds that remain flexible over a wide temperature range; excellent resistance to mechanical shock, oxidation, fungi, mold and bacteria. 1/2 Pint Top Can. ..... P/N 09-04669 ..... ---

PLIOBOND 35

For seaming, splicing and bonding of gaskets, rubber matting, belts and hose to rubber, wood, metal, some plastics, glass and fabrics and to themselves. Provides permanent, flexible bonding. Can be brushed, spread or roller coated. Will not get hard or brittle with age and resists most acids, oil, gasoline, grease, water and salt. P/N 09-04670 ..... ---

RTV157 SILICONE ADHESIVE SEALANT

RTV157 ready-to-use, high strength gray silicone rubber adhesive sealants. Features: • High strength • High temperature performance • Low temperature flexibility • One-component • Room temperature cure • General primerless adhesion • Excellent electrical insulation properties • Excellent weatherability, ozone, and chemical resistance. 2.8 oz. Tube.
P/N 09-05768 ..... ---

CRC RTV SILICONE SEALANT

For general-purpose sealing, bonding, protecting and waterproofing applications. Clear formulation forms a barely visible, water-tight seal. Sealing, bonding, protection & waterproofing in HVAC, electrical, construction, metal working, for filling gaps between mating parts, gearboxes, pumps, motors & for general gasket sealing.

Clear 8oz. ..... P/N 09-04719 ..... ---
Clear 12oz. ..... P/N 09-04677 ..... ---
Blue 8oz. ..... P/N 09-04720 ..... ---

DOW CORNING 700 INDUSTRIAL SEALANT

DOWSIL™ 700 Industrial Grade Silicone Sealant is a one-part, acetoxy cure, adhesive sealant suitable for general industrial sealing and adhesive applications. The sealant will adhere to clean metal, glass, silicone rubber and plastic surfaces.

Black 10.1 oz ..... P/N 09-06142 ..... ---
Clear 10.1 oz ..... P/N 09-06143 ..... ---

DAPCO 2100 PRIMERLESS FIREWALL SEALANT

Features: • Excellent fire resistance to 3500° F • Service temperature of -65° F up to 400° F • Universal primerless adhesion to diverse substrates • Good resistance to aerospace chemicals • Offers non-inhibition curing characteristics against other sealants and adhesives • Extended application time • One part premixed room temperature stability • Non-Volatile Content of 97% • Qualified to BMS 5-63, AMS3374, BAMS 552-004, AIMS 04-05-003, AIMS 04-05-008, and CMNP009

2.5 oz. ..... P/N 09-06423 ..... ---
6 oz. ..... P/N 09-05253 ..... ---

SERRATED POLYETHYLENE GROMSTRIP

Gromstrip is a continuous length of extruded U-channel for use as a protective covering on sharp edges. It can be cut to desired length and inserted into any hole, regardless of configuration.

Sold in 100ft. Roll ..... P/N 11-18312 ..... ---

SILICONE SAVER

The Silicone Saver is a sealant dispensing tool developed for RTV silicone sealant 3oz flexible tubes. The enhanced, patented design combines the separate cap and cone nozzle into a reusable one-piece-system and is paired with a useful rod tool. Together, they solve pain points that occur while using 3oz flexible tubes of RTV silicone sealant! ..... P/N 12-06292 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

HIGH QUALITY RUBBER CHANNEL

Good-grade neoprene. Soft, flexible, oil-resisting.
Full lengths are 15' strips from manufacturer. Priced and sold above by the foot.

Style B: 1/2" high - right, 3/8" high-left, 1/16" Groove ..P/N 05-00596 ..... ---
Style C: 3/8" high, 1/8" groove, 1/4" across bottom .....P/N 05-00597 ..... ---
Style D: 1/2" high - left, 3/16" - right 1/32" Groove .....P/N 05-00598 ..... ---
Style E: 1-1/8" high, 1/4" lip right side, 1/16" Groove ...P/N 05-00599 ..... ---

T-897 NEOPRENE RUBBER TRIM AND FERRIN SEAL

The T-897 is a Neoprene Rubber Seal that is used in various different applications on the aircraft. It is manufacture from a 60 Durometer Neoprene Rubber material. It is sold per Foot with a 10 Ft min. 1/16" opening. 1" Tall. 60 Duro Neoprene Rubber.
P/N 05-11202 ..... ---

K-15 NEOPRENE RUBBER TRIM AND FERRIN SEAL

The K-15 is a Neoprene Rubber Seal that is used in various different applications on the aircraft. It is manufacture from a 60 Durometer Neoprene Rubber material. It is sold per foot. 1/16" opening. 1 1/8" Tall. 60 Duro Neoprene Rubber. P/N 05-11192 ..... ---

BA-200 VINYL U-CHANNEL 3/8

The ba-200 is vinyl U-Channel that is used as a trim seal in various applications throughout the aircraft. It is manufactured from a vinyl material that meets the requirements of the FAR 25.853 B burn test. It is available in a Black or White color and comes in a 25Ft package.
Black .....P/N 05-11174 ..... ---
White.....P/N 05-11452 ..... ---

T-8301 1/2 INCH J-CHANNEL 25 FOOT PACKAGE

The T-8301 is vinyl U-Channel that is used as a trim seal in various applications throughout the aircraft. It is manufactured from a vinyl material that meets the requirements of the FAR 25.853 B burn test. It is available in a Black or White color and comes in a 25Ft package.
Black .....P/N 05-11201 ..... ---
White.....P/N 05-11456 ..... ---

3/4 INCH BULB FOOT TADPOLE TAPE

The VC-150 is a tadpole tape that is silicone coated for added protection. It has a solid 3/4" bulb with a 1 1/4" flap x 10Ft.....P/N 05-11203 ..... ---

WB-1310 WINDSHIELD WIPER REPLACEMENT BLADE

The WB-1310 is a silicone Replacement blade and is sold per foot .....P/N 05-11204 ..... ---

WB-665 WINDSHIELD WIPER REPLACEMENT BLADE

The WB-665 is a silicone Replacement blade and is sold per foot.....P/N 05-11205 ..... ---

T-4096 QUARTER ROUND DOOR SEAL WITH RIDGES

The T-4096 is a Hollow Quarter round door seal that has four ridges that runs down the sealing surface of it. It is constructed of a medium density sponge material and has been used in applications like the cessna door seal and others.
P/N 05-15277 ..... ---

HOPPER SILICONE SEAL

Medium Density silicone sponge material manufactured to meet the MIL-R-46089 C. The material has a Smooth finish to it. 1/2" x 1"..... P/N 05-11194 ..... ---

LP AERO RUBBER U CHANNEL

LP AERO Rubber "U" Channel 1/8" slot ,1/4" wide, 1/2" High.
P/N 05-26743 ..... ---

U CHANNEL

BLACK 65 DURO EPOM U-CHANNEL.

05-01300

05-01400

05-01600

05-02200

05-00951

05-00952

Use CRL Glass and Acrylic Setting Rubber Channels if you have acrylic or glass panels you need to protect. Our Glass Setting Rubber Channels will provide you with the product you need. Available in multiple sizes for most applications.

Sold per foot

Groove	Height	Complete Roll Length	Part Number	Price
1/16"	3/4"	12 feet	05-01300	---
1/32"	3/8"	15 feet	05-01400	---
1/16"	1/2"	25 feet	05-01600	---
1/16"	3/8"	100 feet	05-02200	---
1/8"	5/16"	50 feet	05-00951	---
3/16"	1/2"	50 feet	05-00952	---

OPEN CENTER CHANNEL

1-1/4" wide with an 1/8" x 1/2" long groove, manufactured in 12ft lengths .....P/N 05-01500 .....**--- Ft.**

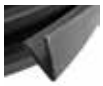
Neoprene sponge rubber 1/4-round door seal. 1/2" Legs, 3/4" Curve, 3/8" Radius. Hollow core makes a better seal. Manufactured in 25 Ft. lengths... P/N 05-01700 .....**--- Ft**

SILICONE P-SEAL 50 DURO

Silicone P-seal 50 duro for battery box application/lighter wall thickness 1-1/2 x 5/8 bulb. Sold by foot.
Use GBL4-4AB large flange (black) pop rivets to install (P/N 05-00483) .....P/N 05-04704 ..... ---

ANTI-CHAFE MOLDING

Anti-Chafe Molding for fuel tank straps. Neoprene channel accommodates metal straps 1" wide.
P/N 05-01800 .....**--- ft**



"V" STRIP

"V" Strip Canopy Channel 20 Ft. required for Long-EZ.
P/N 05-01900 .....**--- ft**

QUARTER ROUND DOOR SEAL

Hollow Quarter round door seal. Medium density sponge material. Use 1100-2 contact cement.
BA-10012.....P/N 05-11173 .....**--- ft**

CESSSNA/PIPER QUARTER ROUND DOOR SEAL

Constructed of a medium density solid sponge material that offers excellent compression ability and resiliency when installed correctly. Use 1100-2 contact cement.
RB-5022 .....P/N 05-11193 .....**--- ft**

QUARTER ROUND SOLID DOOR SEAL - Closed cell black neoprene with smooth outer surface. 1/2" Legs, 3/4" Curve, 1/2" Radius. 25 ft. Roll
Solid.....P/N 05-00000 ..... ---
Hallow .....P/N 05-12641 ..... ---

PIPER DOOR SEAL - Small cell sponge rubber. 25 foot rolls JM189139. .....P/N 05-00010 ..... ---

BAGGAGE DOOR SEAL - Flexible small cell sponge rubber seal used on many aircraft baggage doors. Packaged in 25 foot rolls. 25 ft. Roll.....P/N 05-00020 ..... ---

PIPER WING ROOT SEAL - Black packaged in 12-foot lengths, adequate for one wing root.
12 ft. Roll .....P/N 05-00030 ..... ---
25 ft. Roll .....P/N 05-00030-1 ..... ---

PIPER WING ROOT SEAL - 12 foot. Enough seal to replace the seal on one wing of your Piper aircraft, it is made of a Black neoprene rubber material.
P/N 05-13058 ..... ---

BEECH WING ROOT SEAL - Black, packaged in 12-foot lengths, adequate for one wing root. 12 ft. Roll
P/N 05-00040 ..... ---

J-3, PA-18 DOOR GAP SEAL - 24" length Standard color, black .....P/N 05-00953 ..... ---

Note: The above moldings are not FAA approved.

AP

CHAFE SEAL - DOOR SEALS

AP

EPDM WEATHERSTRIP

Self-adhesive rubber strip, made in Sweden of 100% EPDM rubber. Resistant to aging, weather, ozone, ultraviolet sun rays and many chemicals and solvents. Retains resilience at low temperatures (to - 45°F). Excellent for all types of weatherstripping and canopy installations. Furnished in three sizes

P-STRIP

Furnished in full rolls as a double-width strip which splits in the middle to give two single-width P-strips as illustrated. 17 Ft. Roll 1/4" thick x 3/8" wide.
COLOR: WHITE.....P/N 05-01200 .....**--- Ea.**

D-STRIP WEATHERSEAL

17' Roll 5/16" thick x 23/64" wide. (2) 8-1/2' strips.
P/N 05-00897 ..... **---**

ALL STRIP WEATHERSEAL

10' Roll 5/16" thick x 19/64" wide.
P/N 05-00898 .....**--- Ea.**

BEECHCRAFT COWL DOOR CHAFE SEAL

A Complete set of black silicone chafe seal for the upper cowl doors for Beech models 33, 35, 36. 3/8" wide X .020 thick. Kit includes silicone cement.
P/N 05-00665 ..... **---**

BEECHCRAFT RUDDERVATOR SEAL

A set of two ruddervator seals for model 35.
P/N 05-00670 ..... **---**

BEECHCRAFT NEOPRENE WING ROOT SEAL WR-8988

Beechcraft Neoprene Wing Root Seal WR-8988 - 11 Foot P/N 05-21752 ..... **---**

SILICONE ANTI-CHAFE SEAL

Anti-Chafe Seal AMS3303-.032. Silicone, Black, 1-1/2" wide x 15' long. Silicone Anti-Chafe Material: Mooney and Early Cessna Models. Piper: Malibu and Mirage. Replaces the use of Teflon Tape. Reduces vibration on the cowling, reduces wear on the contact surfaces. Seals the aircraft cowl from rain and water. Can also be used for fuel straps. Silicone cement must be used to install silicone based seals. Silicone Cement required for Installation.
Black 1 Inch.....P/N 05-06916 ..... **---**

BEECHCRAFT TAIL ROOT SILICONE SEAL

AMS3303 silicone seal temperature range -65 to +350. Beechcraft tail root seal. A set of two tail root seals for models 33–36.
Standard Seal - 15 foot length.....P/N 05-00669 ..... **---**

SILICONE AIRBOX & HEATER SEAL

This fiberglass reinforced silicone seal (1/16" thick) makes an excellent replacement for various airbox and heater box seals used in a variety of aircraft. Furnished as a 6" x 6" piece; Black.....P/N 05-00662 ..... **---**

BLACK SILICONE P SEAL WITH 5/8" BULB

This seal makes an excellent replacement for felt type seals or other neoprene P-seals found in various aircraft. Overall size is 1-3/8" with a 5/8" bulb. Similar to Cessna #S2729-1.Note: Use GBL4-4AB large flange (black) pop rivets to install (P/N 05-00483) .....P/N 05-00663 .....**---/ft.**

3M™ WINDOW SEALANTS

3M STRIP CAULK - This black, nonhardening compound in 12" strips is the most satisfactory product for sealing windshields and windows. 61 strips per box, more than enough for an average, leakproof windshield installation.
P/N 08578 ..... **---/Box**

TRB5022 QUARTER ROUND DOOR SEAL

TRB5022 quarter round door seal. Small cell synthetic rubber sponge with smooth outer surfaces 1/2″ x 1/2″.
P/N 04-04268 ..... **---**

BEECHCRAFT STORM WINDOW SEAL

19/23/24/33/35/36/50/55/58/76/77/95 Series Window Seal, Storm Window. (Frameless)
P/N 05-03613 ..... **---**

HOMEBUILDERS GAP SEAL KIT FOR EXPERIMENTAL AIRCRAFT

Designed for experimental aircraft that have been identified as needing gap seals to improve control response and effectiveness. Features transparent, UV stable film with a long aging, acrylic adhesive. Remains flexible down to -40 deg. F. Easy to install with the use of simple hands tools. Kit includes 3M 8674 Film (P/N 09-01643}, 86A Adhesion Promoter to ensure maximum adhesion, Scotchbrite pad (P/N 09-01753) and 3M Application Solution (P/N 06-00604)
P/N 05-03480 ..... **---**

PIPER/MOONEY DOOR SEALS

Developed from a special rubber compound that meets military specifications and FAA requirements for aircraft seals. Has a memory, compresses and conforms to the sealing surface providing a perfect seal. Comes with pressure sensitive adhesive that makes it easy to apply and bonds well with any metal surface painted or bare. Installs in the channel on the fuselage opening. Provides for an air- and water-tight seal. Detailed instructions, an engineering drawing for installation of the new seal, including instructions for adjustment of the door as well as removal of the old seal from the door(s).
Please call or visit our website for additional photos and models.

Description	Part No.	Price
PA-28 Front Entry Door	05-01240	---
PA-28 Rear Baggage Door	05-01241	---
PA-28/32/34 Front Entry Door	05-01240	---
PA-32 Rear Entry Door w/Cargo Door	05-01245	---
PA-34 Front Entry Door	05-01240	---
Mooney Aft Baggage Door	05-04859	---
Mooney Storm Window Seal	05-02483	---
Mooney Front Entry Door - Not Recommended for years 1998 - 2009.	05-03626	---
Mooney All MK20 Series Front Entry Door	05-04858	---

PIPER AIRCRAFT FRONT MOUNTED DOOR SEAL

Piper Aircraft Front Mounted Door Seal P301-1. Nearly a year of development and testing went into creating this revolutionary new Entry Door Seal for aircraft. Custom extruded from a special hybrid rubber compound, the new seal is superior to any seal on the market.
P 301-1 Seal for PA 28/32/34 .....P/N 05-03628 ..... **---**
P 301-23 Seal for PA 28/32/34 .....P/N 05-06859 ..... **---**
See our website for application chart.

CESSNA DOOR SEALS

The new seal installed on the fuselage enables the door to fully close and be air and water tight. The seal is easy to install; with its own adhesive strip and is FAA-PMA approved for all single-engine Cessna aircraft. Please visit our website for a complete selection of door and baggage seals.
Cessna Entry Door Seal.....P/N 05-01610 ..... **---**
Cessna Window Seal .....P/N 05-01611 ..... **---**
Cessna Baggage Door Seal.....P/N 05-01612 ..... **---**
Cessna AFT ENT/CARGO Door Seal.....P/N 05-01613 ..... **---**
Cessna 207 Front Bag Door Seal .....P/N 05-01614 ..... **---**

SILICONE LUBRICANT - This pure silicone lubricant will greatly improve the life and sealing ability of door seals and rubber gaskets.
P/N 05-04641 ..... **---**

CESSNA DOOR SEAL (FRONT ENTRY) - A great seal for Cessna 120, Cessna 140, Cessna 150, Cessna 152, Cessna 170, Cessna 172, Cessna 175, Cessna 180, Cessna 185, Cessna 190, Cessna 195, Cessna 206, Cessna 207, Cessna 210, Cessna 336, Cessna 337. Sold as each (per door) .....P/N 05-03621 ..... **---**

CESSNA DOOR SEAL (FRONT ENTRY) - A great seal for Cessna 177 Sold as each (per door).....P/N 05-03622 ..... **---**

CESSNA VENT WINDOW SEAL- A great seal for Cessna Cessna 177, 337. Sold as each. Installs easily with its pressure sensitive strip.
P/N 05-03625 ..... **---**

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

BAGGAGE COMPARTMENTS

Our Baggage Compartments are custom designed and manufactured to provide your aircraft with a sturdy and attractive area for storing baggage, books, charts, etc. If your aircraft is not listed, please send us the old baggage compartment to use as a pattern for a new one. Available in two colors: off-white or olive drab canvas.

Note: Complete the part number with color choice. Use -1 for off-white, -2 for olive drab.
Baggage Compartments are special order & non-returnable

Aircraft	Part No.	Price
Aeronca 7AC	09-17265-	---
Aeronca 11AC	09-17270-	---
Cessna 120/140	09-17275-	---
Cessna 150*	09-17280-	---
Cessna 172	09-17285-	---
Cessna 310	09-17290-	CALL
Ercoupe	09-17295-	---
Fairchild 24	09-17300-	---

Aircraft	Part No.	Price
Luscombe 8A	09-17302-	---
Piper J3	09-17305-	---
Piper J4	09-17307-	---
Piper J5	09-17310-	---
Piper PA12	09-17312-	---
Stearman	09-17315-	---
Taylorcraft	09-17317-	---

* From 1964 and later

MAP POCKET

10' elastic mouth, square black vinyl pocket mounted on fiberboard. Includes hardware ..P/N 09-17415 ..... ---

TAIL WHEEL BOOTS

To keep your aircraft components clean from contamination by dust, grime and dirt, install these quality covers made from black vinyl. No mounting hardware included.
Cessna 195.....P/N 09-17350 ..... ---
Staggerwing.....P/N 09-17352 ..... ---
Stearman .....P/N 09-17355 ..... ---

CESSNA 150 STEERING LINKAGE COVERS

Linkage Covers for the Cessna 150 Steering Cover. Not FAA Approved.....P/N 09-04051 ..... ---

PIPER SHOCK BOOTS / COVERS

P/N 09-17410

P/N 09-17365

P/N 09-17360

To keep your aircraft components clean from contamination by dust, grime and dirt, install these quality covers made from black vinyl. No mounting hardware included.

Aircraft	Description	Qty	Part No.	Price
PA-22	1 Pc. Control Column Boot	Each	09-17410	---
PA-25	Gate Control Rod Boot	Each	09-17357	---
J-3	Piper Shock Boots	Pair	09-17360	---
PA-25	Gate Control Rod Boot	Each	09-17375	---
PA-25, SN25-2000 to -4171	Shock Strut Boots, pair	Pair	09-17377	---

MISCELLANEOUS BOOTS / COVERS

Aircraft	Description	Qty	Part No.	Price
Aeronca 7AC	Joy Stick Covers	Pair	09-17362	---
Cessna172 (also fits 182)	Steering Linkage Covers	Pair	09-17365	---
Citabria	Interior Boots	Each	09-17367	---
Beech Bonanza	Gear Boots for Main Gear	Pair	09-17370	---
Beech Bonanza	Dust Boot for Retractor Nose Gear	Pair	09-17372	---

PIPER SHOCK CORD COVER

Applicability: Piper PA-18. 16.75" Aluminum Shock Cord Cover. Used with Hydrasorb. FAA/PMA Approved.....P/N 05-14960 ..... ---

PIPER SOFT SHOCK CORD COVER

Applicability: Piper PA-18.
Soft cover with Velcro and snaps for easy installation and removal and sold in pairs.
Red .....P/N 05-26657 ..... ---
Black .....P/N 05-26658 ..... ---

SEAT SLINGS

These canvas slings are available in Off-White or Olive Drab. All seat slings include front and rear slings except:
Aeronca 65CA.....1pc
Piper J-3.....3 pcs
PA-22 ..... 1 pc
PA-12 ..... 3 pcs
Taylorcraft ..... 1 pc

Note: Complete Part Number with color. Use -1 for Off White or -2 for Olive Drab.

Aircraft	Part No.	Price
Aeronca 65CA	09-17320-	---
Bellanca	09-17322-	---
Citabria	09-17325-	---
KR-1 & 2	09-17327-	---

Aircraft	Part No.	Price
Piper J-3	09-17330-	---
Piper J-5	09-17332-	---
Piper PA-12	09-17335-	---
Piper PA-22	09-17337-	---
Taylorcraft	09-17340-	---

WINDLACE INTERIOR DOOR SEAL WELT

1/2" diameter vinyl covered material that provides additional sealing and ornamental edging for the door opening. The windlace is mounted between door post structure and upholstery panels or trim. Install with sheet metal screws. Black color only .....P/N 09-00281 .....**--- / ft.**

3M™ SUPER WEATHERSTRIP ADHESIVE

For adhering all types of rubber weatherstripping metal. Light colored adhesive, very fast drying, exceptional bonding strength. Can be used for adhering vinyl trim head liners and side panels.
oz. tube, #8001 ..... P/N 09-27200 .....

3M™ GENERAL TRIM SPRAY ADHESIVE

This convenient sprayable adhesive is used for bonding a variety of trim fabrics. It is non-misting, very strong, light colored, and has a controllable spray pattern.
19.75 oz. Aerosol Can.....P/N 09-28330 .....---

3M™ SCOTCH GRIP RUBBER ADHESIVE

This fast drying adhesive develops strength very quickly. It has excellent heat resistance; temperature performance is from -5 to 300°F. Meets specification requirements of MIL-A-1154C. Bonds neoprene, reclaim, SB-R, and butyl rubber to metal, wood, most plastics, and many other products.
Quart.....P/N 09-27220 ..... ---
Gallon .....P/N 09-01712 ..... ---
5 Gallon .....P/N 09-01713 ..... ---

GORILLA CLEAR REPAIR TAPE

Features the strength of Gorilla Tape in a weatherproof, airtight, crystal clear tape. Fix, patch, seal, hold, and protect almost any surface with a crystal clear appearance for a perfect fix every time .....P/N 09-04029 ..... ---

AERO-SEAL CEMENT

Designed for door seals and moldings. Adheres rubber to wood, other rubber, fiberglass or metal. 4 oz. brush-top container .....P/N 05-00955 ..... ---

FEMALE BUTTON SNAP

Made from durable, nickel-plated brass, 11/64" cap # 93-X2-10128-2A. The medium-sized cap works great for projects using marine canvas and upholstery fabric. Uses include umbrellas, awnings, boat covers, tents, outdoor upholstery, gear bags, luggage, and more. Finalize your selection of performance upholstery setting tools with heavy-duty DOT Durable caps .....P/N 09-01033 ..... ---

AP

HEADLINERS - INTERIOR MATERIALS

HEADLINERS

A sagging or torn headliner can make even the nicest airplane look unattractive and worn out. Headliners are actually quite inexpensive and easier to replace than many pilots realize. Our headliners are professionally manufactured and every headliner set comes with complete instructions. Available in Excell stretchable vinyl or wool. Specify fabric type and color as noted below the chart.Headliners are special order & non-returnable.

Aircraft	Part No.	Price
Aeronca		
7AC	09-17454	---
11AC	09-17455	---
15AC	09-17456	---
Chief 65CA	09-17458	---
Chief LA65	09-17460	---
L-3 Defender	09-17462	---
Bellanca Scout		
w/Greenhouse	09-17464	---
Super Viking 1730	09-17466	---
Cessna		
120/140	09-17468	---
150 (59)	09-17470	---
150 (60)	09-17472	---
150 (61-63)	09-17474	---
150 (64-65)	09-17475	---
150 (66-68)	09-17476	---
150 (69)	09-17478	---
170A	09-17480	---
170B	09-17481	---
172 (56-58)	09-17482	---
72 (59-60)	09-17484	---
72 (61-62)	09-17485	---
172 (63-70)	09-17486	---
172 (64) Off-White Vinyl	09-04589-1	---
172 (64) Off-White Wool	09-04589-2	---

Aircraft	Part No.	Price
172 (64) Tan Wool	07-04589-3	---
174(64)	09-04589-4	---
175	09-17488	---
180	09-17490	---
Cessna		
182 (56)	09-17492	---
182 (57-59)	09-17494	---
182 (60-61)	09-17495	---
182 (62, Omnivision)	09-17496	---
185 (75)	09-17498	---
206/207	09-17510	---
210 (66-68)	09-17512	---
310	09-17514	---
Citabria		
w/Greenhouse	09-17515	---
w/o Greenhouse	09-17516	---
Commonwealth		
Skyranger	09-17518	---
Fairchild		
24	09-17520	---
Maule		
M4	09-17522	---
M5	09-17524	---
Piper		
J-4 Coupe	09-17525	---
PA-121/J-5*	09-17526	---

Aircraft	Part No.	Price
PA-14	09-17528	---
PA-15 Vagabond	09-17530	---
Piper		
PA-16 Clipper	09-17532	---
PA-18 Super Cub	09-17534	---
PA-20/22 (51-52) 6 bows, 2 zippers	09-17535	---
PA-20/22 (52-58) 8 bows, 3 zippers	09-17536	---
Colt 108	09-17538	---
PA-23/250 (early 1960)	09-17540	---
PA-242 (thru 1965)	09-17542	---
PA28/323	09-17544	---
Stinson		
108-2	09-17546	---
108-3	09-17565	---
10A	09-17548	---
105-HW75	09-17550	---
Taylorcraft		
BC12	09-17552	---

*1 Specify round or square windshield Round: S/N 12-01 thru 12-2903.-2907, -2914, -2915, -2917, -2925, -2950, -3028-S, -3901 -3902, -3903; Square: S/N 12-2904 and up except those listed above.

NOTE: COMPLETE PART NO. WITH FABRIC & COLOR. EXCELL STRETCHABLE VINYL OFF WHITE -1, WOOL OFF WHITE -2, TAN -3, GRAY -4.

ANTIQUE PIPER WING ROOT FRAME COVERS

This cover is constructed of a lightweight stiffener panel, 1/2" foam padding and headliner fabric. A flap extends into the back side of the wing root frame and glues in place for a professional finish.

P/N 09-17345 ..... ---

FIREWALL SETS

Vinyl outside, backed with 1/4" closed-cell insulation. If your aircraft is not listed, please send us your current firewall set to use as a pattern.

1-Piece Bulkhead Firewall

Aircraft	Part No.	Price
Aeronca 7AC	09-01324	---
Aeronca 11AC Chief	09-04440	---
Aeronca 11AC	09-35910	---
Cessna 120/140	09-35915	---
Piper PA20/22	09-35925	---
Piper PA18	09-35930	---
Piper PA28/140	09-35935	---

CITABRIA

Bulkhead and wrap-around pad 3 piece set.

P/N 09-35950 ..... ---

LUSCOMBE 8A & 8E

Please specify model. Also specify if 8A is with or without dishpan. If "with dishpan", specify if round or oblong.

Standard ..... P/N 09-35940 ..... ---
With Dishpan ..... P/N 09-35945 ..... ---

UPHOLSTERY HARDWARE

82° Countersunk Washers

Size 4 ..... P/N 04-03898 ..... ---
Size 6 ..... P/N 04-03899 ..... ---
Size 8 ..... P/N 04-03901 ..... ---
Size 10 ..... P/N 04-01946 ..... ---

82° Flush Washers

Size 6 ..... P/N 04-03895 ..... ---
Size 8 ..... P/N 04-03896 ..... ---
Size 10 .... P/N 04-03897 ..... ---

82° Oval Head Screw

4x1/2 - A-OV.... P/N O4X8 ..... ---
6x1/2 - A-OV.... P/N O6X8 ..... ---
6x3/3 - A-OV.... P/N O6X12 ..... ---
6x1 ..... P/N O6X16 ..... ---

Snap Studs - Males snaps attached to self-tapping phillips head screws. For canopies

#7 x 3/8" ..... P/N 04-01520 ..... ---
#7 x 5/8" ..... P/N 13-03296 ..... ---

* P/N 13-03296 comes without a screw and P/N 04-01520 has the #8 screw built in.

HEADLINER WOOL

This is a quality versatile wool headlining fabric. Wrinkles can be removed by applying water in a fine mist then using heat, such as a hair dryer, allowing wool to shrink. This gives a nice tight fit. Colors: Off-white, tan and gray. Complete P/N with color choice using (-2) for Off white, (-3) for tan, or (-4) for gray. 54 inches wide; sold by the yard.

P/N 09-17566-X..... **---/yd.**

3M™ HEADLINER CEMENT

• High performance laminating contact adhesive • Adheres, sheet metals, such as stainless steel, aluminum, cold rolled steel and many plastics to numerous other substrates • High performance laminating adhesive • Excellent moisture and heat resistance and will perform up to up to 300°F/148°C • Available in tubes, cans or pails 3M™ Neoprene High Performance Contact Adhesive 1357 is a versatile, solvent based adhesive. It offers high immediate handling strength and good heat resistance, and is commonly used for bonding most metals and plastics. It is also suitable for large surface panel or composite lamination.

Quart ..... P/N 09-17570 ..... ---

SUPER TRIM ADHESIVE #1081

A high temp high strength contact type adhesive. Bonds metal, foam, decorative laminates, fabrics, headliners. Variable width spray pattern. Meets Fed. Spec. MMM-A-130B.

16.5 Oz. Can ..... P/N 09-42652 ..... --- **ea.**

HEADLINER EXCELL STRETCHABLE VINYL

Unique four-way stretch that easily eliminates tension wrinkles, producing a smooth professional finish. Backing and facing are mildew resistant. 54" width. Color: Off white..... P/N 09-17564 ..... **---/yd.**

FELT

All wool, 1/4" thick felt for paddings. Firm but resilient construction for many aircraft applications. Gray/ brown mix. **NOTE**: Sold in Full 36" Width only. Sold per foot.

P/N 09-31600..... **---/Lineal Ft.**

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

3M™ LEADING EDGE TAPES

3M™ 8672 POLYURETHANE PROTECTIVE TAPES

3M™ Polyurethane Protective Tape 8672 is made from a tough abrasion resistant polyurethane elastomer that resists punctures, tearing, abrasion and erosion. It is formulated for resistance to ultraviolet light. Polyurethane Protective Tape 8672 provides a simple, easy method of protecting a surface from corrosion, abrasion and minor impact damage. It can be installed in a minimum amount of time with simple tools. It can be painted or applied over painted surfaces. Polyurethane Protective Tapes 8672 and 8672 GB are constructed with a long-aging, solvent resistant, pressure sensitive acrylic adhesive that is protected with an easy release paper liner. Polyurethane Protective Tape 8672 is a transparent tape with a paper liner on the adhesive side.Please visit our website for application instructions.

BY THE FOOT

Width	Color	Description	Part Number	Price
3”	Clear	3M™ 8672 Tape	09-01634-1	---
4”	Clear	3M™ 8672 Tape	09-01635-1	---

FULL ROLLS

Width	Length	Color	Description	Part Number	Price
1”	36 yd.	Clear	3M™ 8672 Tape	09-00841	---
2”	36 yd.	Clear	3M™ 8672 Tape	09-20140	---
3”	36 yd.	Clear	3M™ 8672 Tape	09-00843	---
4”	36 yd.	Clear	3M™ 8672 Tape	09-20145	---

3M™ TAPE ADHESION PROMOTER 86A & CLOTH

06-00605

05-03479

Tape Adhesion Promoter 86A is intended for use in enhancement of 3M Polyurethane Protective Tape adhesion levels to certain types of surfaces. It is most effective when used over polyurethane enamel surfaces.

Specifications:

• Active Ingredient: Polyamide Resin • Solvent: Isopropyl Alcohol, N-Propyl Alcohol • Solids: 6.5% • Color: Transparent, Colorless • Viscosity: Approximately 100 cps • Flashpoint: 53°F (12°C) Flammable Liquid • Net Weight: .95 lbs./pint • Storage: Store at 60-80°F (16-27°C). Lower temperature storage will cause, 3M 86A Promoter to gel. • Shelf Life: Two (2) years from date of manufacture

16 oz.....P/N 06-00605 ..... ---
Adhesion Promoter Cloth (Sold Each) .....P/N 05-03479 ..... ---
5 Pack .....P/N 05-03479-5 ..... ---

3M™ POLYURETHANE PROTECTION TAPE APPLICATION SOLUTION

A pre-mixed, water-based solution for applying 3M Polyurethane Protective Tape and Boots. Solution is provided pre-mixed in a ready to use squirt bottles. Allows wide width and contoured performed boots to be easily installed.

P/N 06-00604 ..... ---

ALLPROTECT™ AVIATION NON-SLIP COVERING MATERIAL

ALLProtect is a padded, non-slip protective covering for use on interior and exterior surfaces of all types of aircraft during building, maintenance and repairs. Nonwoven with an adhesive PE film and non-slip surface. The backing is a PE film that creates a liquid barrier against spills, and it has a strong adhesive composite that leaves absolutely no residue on removal. Reusable • Slip-proof • Waterproof • Leaves no residue • Strong & tear-resistant • 98 mil (2.5mm) padded grey felt • PE film backing with strong adhesive • Custom sizes available, please inquire • Interior uses: sticks to carpet, tile, wood • Exterior uses: fold down stairs, wrap around wings • Maximum protection against paint, liquid spills, dirt, scratches & more. ALLPROTECT is a hard-wearing nonwoven made of synthetic fibres. The underside features an adhesive laminated composite that serves as a liquid barrier and leaves absolutely no residue on removal. Its outstanding adhesive strength enables horizontal and vertical applications.

Half-Width Roll 20” x 82” Grey .....P/N 05-15425 ..... ---
Full Roll 39” x 82” Grey .....P/N 05-15081 ..... ---
Full Roll 39” x 82” Red .....P/N 05-22927 ..... ---

AP

3M™ POLYURETHANE 8561 / 8562 PROP TAPE

Note: For Experimental Aircraft Only

Clear 2” wide polyurethane tape stretches to conform to curved or straight leading edges without wrinkling. Thick for greatest protection from any in the field applied surface. **Sold by the foot.

Features: • Abrasion/Scratch Resistant – Will provide long-term protection of many finished surfaces • Impact Resistant – Maintains the surface integrity in many applications where minor impacts are a concern • Puncture Resistant – Forms a tough barrier against liquids that can be a source of corrosion • Conformable – Can be made to fit most curved surfaces • Easy Application – Polyurethane Protective Tapes provide an easy solution to many demanding applications • No VOCs – Volatile Organic Compounds are not released during application

.008” Thick x 2” Wide .....P/N 15-05829 ..... ---
.014” Thick x 2” Wide .....P/N 15-04832 ..... ---

3M™ POLYURETHANE 8671 - 2 INCH TRANSPARENT PROTECTIVE TAPE

Resists Wearing, Abrasion and Tearing

3M™ Polyurethane Protective Tape 8671 is a transparent thermoplastic polyurethane elastomer tape designed to provide premium leading edge erosion protection. With scratch, tear, erosion and puncture resistance that comes from the polyurethane backing, this tape also includes a high peel strength acrylic adhesive. It can withstand a wide variety of difficult conditions, including rain and sand erosion. It is formulated for resistance to ultraviolet light. The tape can be applied efficiently in aircraft production and maintenance. If you’re looking for a formed 3D part that offers similar levels of protection, consult our selection of 3M™ Polyurethane Protective Boots. 3M™ Polyurethane Protective Tape 8671 is a 14 mil, leading edge erosion protection tape comprised of a tough polyurethane backing and an acrylic adhesive. It resists punctures, tearing and abrasion, and even ultraviolet light. This tape is qualified to aerospace specifications.

Features: • Formulated for resistance to ultraviolet light • Tough, thermoplastic polyurethane elastomer has a high peel strength and is abrasion, scratch, erosion, tear and puncture resistant • Thin and conformable tape is easy to apply and conforms over curved surfaces • Can be painted over, or applied to painted surfaces • Acrylic adhesive adheres to a wide variety of substrates and retains a constant level of adhesion over time, yet removes easily when necessary

Attention: Experimental use only.....P/N 09-05774 ..... ---

LEADING EDGE TAPE - WINGWALK

AP

3M™ POLYURETHANE LEADING EDGE TAPE

Designed to help protect light aircraft from the damaging effects of rain, insects, sand, snow and sleet. A tough durable, protective tape for exposed surfaces. 3M #8672 Polyurethane Protective Tape is designed to help protect the leading edges of aircraft wings, struts, and horizontal and vertical stabilizers from airborne particle damage. Versions of this tape are used extensively for surface protection in both military and commercial aircraft applications. May be applied to clean metal or to commonly used aircraft paints over metal or fabric. Not to be used on props, helicopter rotors or balanced surfaces such as elevators or ailerons. Clear in color. Sold in full rolls only.

2" wide.....P/N 09-20140 ..... ---
4" wide.....P/N 09-20145 ..... ---

3M™ DUCT TAPE

A general-purpose gray cloth tape with good adhesive qualities.

2" x 60 Yd. Roll.P/N 09-30900 ..... ---

MASKING TAPE

Armak general or 3M purpose crepe masking tape. Long shelf life.

1" x 60 Yd. Roll.P/N 09-20100 ..... --- **ea.**

CLOTH TAPE

Has many uses in aircraft maintenance work. Strip over sharp corners to protect fabric. Strips under doped fabric will prevent fabric from sticking to parts. Pressure-sensitive adhesive backing. Easily applied, easily removed.1" x 60 Yd.

Roll .....P/N 09-17100 ..... ---

GORILLA TAPE

Camouflages repairs on white surfaces, and won't yellow outdoors due to its superior UV resistance. Perfect for both indoor and outdoor use with its superior UV resistance and ability to grip to rough, uneven, unforgiving surfaces like wood, stone, stucco, plaster, brick and more. 30 yard rolls.

Standard Width.....P/N 09-04091 ..... ---
Tough and Wide.....P/N 09-04092 ..... ---

GLASS STRAPPING TAPE

A pressure-sensitive transparent acetate film tape reinforced with glass strands. Possesses high tensile strength (375 lbs./inch width) and good impact strength. Especially effective for carton sealing applications. #RG-2A, 3/4" x 60 Yd. Roll.

P/N 09-31200 ..... ---

RESCUE TAPE

Rescue Tape is a self-fusing silicone repair product with infinite uses. Most versatile and easy to use emergency repair product available. You can repair leaks on plumbing and hoses in a flash, use for electrical wiring or as shrink wrap, wrap tool handles, and much, much more. Incredible 700 PSI Tensile Strength, Insulates 8,000 Volts per layer, Withstands 500° F Degrees of heat! (260° C) ~ Remains flexible to -85° F! (-60° C), Creates a Permanent Air-Tight, Water-Tight Seal in seconds, Resists Fuels, Oils, Acids, Solvents, Salt Water, Road Salt, UV Rays.

Description	Color	Part No.	Price
Rescue Tape Standard Roll 1"x12'x.020"	Red	01-00989	---
Rescue Tape Standard Roll 1"x12'x.020"	Black	01-00990	---
Rescue Tape Standard Roll 1"x12'x.020"	Clear	01-00991	---
Rescue Tape Industrial Roll 2"x36'x.030"	Black	01-00992	---
Rescue Tape Industrial Roll 2"x36'x.030"	Red	01-00993	---

LEADING EDGE TAPE

Clear adhesive 0.012″ thick polyurethane film is available in un-formed (straight) tape for erosion protection on any flat leading edge. Ideal for erosion protection on numerous aircraft leading edges including wing leading edges, horizontal tail, landing gear, etc. Also works great for many other applications including automotive erosion protection. Available in five different widths. 100 feet per roll.

Description	Part No.	Price
PM-T1 1" Tape For Antenna Bases	08-12446	---
PM-T2 Leading Edge Tape 2" Roll	08-12447	---
PM-T3 Leading Edge Tape 3" Roll	08-12448	---
PM-T4 Leading Edge Tape 4" Roll	08-12449	---
PM-T6 Leading Edge Tape 6"Roll 36 Yd	08-12450	---

NON-SKID WING WALK TAPE

The non-skid adhesive tape is excellent for wing walk applications. The clear is perfect for pilots wishing their step areas to blend in, not stand out. This tape meets all applicable Mil Specs and has superior adhesion qualities. Sold by linear foot. **Note**: Material is translucent and will allow the underlying color to show through, but is not optically transparent.

24" Wide Clear.....P/N 09-31685 ..... ---
24" Wide Black .....P/N 09-05644 ..... ---
6" Wide Clear.....P/N 09-31645 ..... ---
24" Wide White .....P/N 09-31680 ..... ---

ULTRA WING WALK COATING

Developed exclusively for Aircraft Door Seals by a major chemical company, this phenomenal new wing walk coating reduces the chance of slipping when climbing up on the wing. Unlike the mundane wing walk coating found on most aircraft, ULTRA WING WALK is a fast-drying polyurethane-based semi-gloss black coating with fine particles of rubber that adds class to any plane. .....P/N 05-04366 ..... ---

3M™ SAFETY WALK SHEET

A durable, mineral coated, non-slip fabric for wing walks. Waterproof, weatherproof and unaffected by vibrations, heat, cold, gasoline or oil. Assures safe footing. Pressure-sensitive backing should have additional coating of Pliobond to assure adhesion for aircraft applications. Sold by lineal foot.

12" Width (3M).....P/N 09-32250 .....--- **/Ft.**
1/2 pt. .....P/N 09-28000 ..... ---
1 pt. .....P/N 09-28100 ..... ---
1 qt. .....P/N 09-28200 ..... ---

3M ™ SAFETY-WALK™ TAPE

High-friction, fine-resilient textured, slip-resistant material. Reverse side coated with pressure-sensitive adhesive protected by a removable liner. Good for wet, barefoot traffic areas. Clear vinyl, light duty, 12 inches wide. Sold by the linear foot.

12" wide Clear .....P/N 09-31650 ..... ---
6" wide White.....P/N 09-31655 ..... ---
12" wide White.....P/N 09-31660 ..... ---
6" wide Black.....P/N 09-31665 ..... ---
24" wide Black .....P/N 09-31675 ..... ---

RAC WING WALK

RAC wing walks are not made from the usual, sandpaper-like material, which can decompose and scratch both the wing surface and your knees. Instead, they use a low profile, synthetic rubber, that combines a comfortable feel with good gripping power.The RAC wing walk comes pre-cut to 26 1/2" x 9 1/2". Installation is easy with the aggressive, self-adhering backing. Each wing walk comes rolled in its own, 4"x4"x10" box and installation instructions are also provided with each box. Black.....P/N 09-28210 ..... --- **ea.**

HEAVY DUTY WING WALK

This is a Heavy duty Non-Skid or Wing Walk material that must be glued in with a heavy duty contact cement, it is used to prevent falls and slips on slippery surfaces and give added traction when needed it is able to be used on steps, wings and many other places around the airplane or hangar. 24" x70".

P/N 05-11172 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RADOME BOOTS

These Erosion Boots are the simplest and most cost effective solution that can save you thousands of dollars on maintenance costs by eliminating damage to high erosion areas. Prevent paint and surface erosion on susceptible leading edges of your aircraft such as radomes, navigation light lenses, wing root fairings, horizontal stabilizer tips, tail fairings, spinners, etc.
Each boot is preformed from 0.012″ thick, clear adhesive polyurethane that acts as a protective barrier between your aircraft and the damaging elements that cause paint and surface damage. Save Money by installing the best paint and surface protection solution!
Significantly extend the surface and paint life of your aircraft's radome and leading edges by installing one of these low priced protection boots today! Erosion Protection Boots are the simplest and most cost effective solution that can save you thousands of dollars on maintenance costs by eliminating damage to high erosion areas on your aircraft.
Prevent paint and surface erosion on susceptible leading edges of your aircraft such as radomes, navigation light lenses, wing root fairings, horizontal stabilizer tips, tail fairings, spinners, etc. Each mask is precision molded for a perfect fit from 0.012″ thick, clear adhesive polyurethane that acts as a protective barrier between your aircraft and the damaging elements that cause paint and surface damage. Nearly invisible after installation and UV stabilized to never yellow. Save Money by installing the best paint and surface protection solution! **Benefits**: • Reduce costly maintenance and down time due to paint and surface erosion.• The most cost effective aircraft paint and surface protection solution.• Protect your investment by eliminating erosion on all leading edges.• Optimized thickness is virtually invisible to radar.• Provides 5+ years of paint erosion protection.• UV stabilized to eliminate yellowing over time.• Extremely simple and easy to install.•Nearly invisible after installation.• The best Quality & Customer Service guaranteed!

Product No.	Description	Aircraft Eligibility	Part No.	Price
PM-190	(Norton 4906X) Wing Mounted	182 & 206, 210 Centurian; 337	08-12423	---
PM-57	(Not for F406 Caravan II) Wing Mounted	208 Caravan	08-15078	---
PM-50	Boot	T303 Crusader	08-15080	---
PM-63	(Norton 2014X)	T303 Crusader	08-15081	---
PM-70	(Norton 2310X)	T303 Crusader	08-15082	---
PM-62	(Norton 2001X, 2023X & 3060X	310K, L, N, P, & 320E, F & Skyknight; 310Q	08-15083	---
PM-67	(Norton 4131X)	310K, L, N, P, & 320E, F & Skyknight; 310Q	08-15084	---
PM-69	Horizontal Stabilizer Tip Mask Set (L & R)	310Q; 310R; 340 & 340A	08-15087	---
PM-87	Spinner Mask	310Q; 310R	08-15088	---
PM-71L	Tip Tank Mask (L)	310Q; 310R; 340 & 340A	08-15089	---
PM-71R	Tip Tank Mask (R)	310Q; 310R; 340 & 340A	08-15090	---
PM-60	Boot	310R	08-15091	---
PM-64	(Norton 4057X #9711019-9, -10, 5313080-2 pointed)	335; 340 & 340A	08-15096	---
PM-56N	New Cessna fits #9711019-1[pointed]	335; 340 & 340A; 401, 402 & 404; 411; 414; 414A; 421; 421B; 421C	08-15097	---
PM-65	Chamberlain [large round]	335; 340 & 340A; 401, 402 & 404; 411; 414; 414A	08-15098	---
PM-56	(Norton 2022X, 3084X, 4004X & 4009X)	401, 402 & 404; 411; 414; 414A; 421; 421B; 421C	08-12439	---
PM-54	(Not for 208 Caravan I)	F406 Caravan II (Reims); 425 & 441 Conquest I & II	08-15109	---
PM-55	Wing & Horizontal Stabilizer Tip Mask Set (4 pcs.)	414A; 421C	08-15119	---
PM-68L	Tip Tank Mask (L)	421B	08-15124	---
PM-68R	Tip Tank Mask (R)	421B	08-15125	---
PM-51	Boot	500 Citation I & 501 Citation I/SP; 550 Citation II; 550 Citation S/II; 551 Citation II/SP; 560 Citation V	08-12437	---
PM-350	Wing Tip Mask Set (L & R)	550 Citation II; 550 Citation S/II; 551 Citation II/SP	08-15141	---
PM-351	Horizontal Stabilizer Tip Mask Set (L & R)	500 Citation I & 501 Citation I/SP; 550 Citation II; 550 Citation S/II; 551 Citation II/SP; 560 Citation V; 560 Citation Ultra & UC-35A & C; 560XL Citation Excel, XLS & XLS+	08-15131	---
PM-352	Vertical Stabilizer Tip Mask	500 Citation I & 501 Citation I/SP; 550 Citation II; 550 Citation S/II; 551 Citation II/SP	08-15132	---
PM-354	Wing Tip Mask Set (L & R)	500 Citation I & 501 Citation I/SP	08-15133	---
PM-5301	Boot	510 Citation Mustang	08-15134	---
PM-59	Boot	525 CitationJet & CJ1 & CJ1+;525A, B & C, CJ2, CJ2+, CJ3 & CJ4; 550 Citation Bravo; 560 Citation Ultra & UC-35A & C; 560 Citation Encore & UC-35B, C, & D	08-12440	---
PM-353	Horizontal Stabilizer Tip Mask Set (L & R)	525A, B & C, CJ2, CJ2+, CJ3 & CJ4	08-15137	---
PM-362	Vertical Stabilizer Tip Mask	560 Citation V; 560 Citation Ultra & UC-35A & C; 560XL Citation Excel, XLS & XLS+	08-15153	---
PM-360	Wing Tip Mask Set (L & R)	560 Citation V; 560 Citation Ultra & UC-35A & C; 560XL Citation Excel, XLS & XLS+	08-15154	---
PM-52	Boot	560XL Citation Excel, XLS & XLS+; 650 Citation III, VI & VII	08-12438	---
PM-5201	Dorsal Transition Mask	560XL Citation Excel, XLS & XLS+	08-15161	---
PM-5202	Navigation Light Lens Mask (L & R)	560XL Citation Excel, XLS & XLS+	08-15162	---
PM-T5203	Cessna Citation XLS Wing Recognition Light Lens Kit (L & R)	560XL Citation Excel, XLS & XLS+	08-15163	---
PM-T5204	Cessna Citation XLS Landing Light Lens Kit (L & R)	560XL Citation Excel, XLS & XLS+	08-15164	---
PM-T5205	Cessna Citation XLS Ice Wing Inspection Light Lens Kit (L & R)	560XL Citation Excel, XLS & XLS+	08-15165	---
PM-49	Vertical Stabilizer Tip Mask	650 Citation III, VI & VII	08-15170	---
PM-53	Boot	680 Citation Sovereign; 750 Citation X	08-15171	---
PM-114	Boot	680 Citation Sovereign; 750 Citation X	08-19059	---

MS35769 GASKETS

AN900 (MS35769) annular copper-asbestos gaskets are suitable for temperatures up to 500° F. and pressures up to 200 PSI. Ring width is 1/8"; thickness is 3/32.

AN900 Dash No.	MS35769 Dash No.	I.D. (In.)	Price Each	AN900 Dash No.	MS35769 Dash No.	I.D. (In.)	Price Each
-3	-1	3/16	*	-17	-24	1-1/16	---
-4	-2	1/4	---	-18	-26	1-1/8	---
-5	-5	5/16	---	-19	-29	1-3/16	---
-6	-6	3/8	---	-20	-31	1-1/4	---
-7	-8	7/16	---	-21	-33	1-5/16	---
-8	-9	1/2	---	-22	-35	1-3/8	---
-9	-10	9/16	---	-23	-38	1-7/16	---
-10	-11	5/8	---	-24	-39	1-1/2	---
-11	-13	11/16	---	-25	-41	1-9/16	---
-12	-15	3/4	---	-26	-42	1-5/8	---
-13	-17	13/16	---	-27	-46	1-11/16	---
-14	-18	7/8	---	-28	-48	1-3/4	---
-15	-20	15/16	---	-29	-51	1-13/16	---
-16	-21	1	---	-30	-52	1-7/8	---

AN900 GASKET KIT

144 piece kit of copper crush washers in common sizes. Complete with durable plastic case with dividers and size chart..... P/N 05-02220 ..... ---

Plastic Case Only..... P/N 13-03017 ..... ---

AN900 Gasket Organizer..... P/N 13-19792 ..... ---

MS28778 TUBE FITTING BOSS GASKET
(FORMERLY AN6290)

Straight-thread tube fitting boss gaskets are used to provide a seal between straight-thread fittings, such as AN815, and ports of instruments with female straight threads instead of the more common female tapered pipe threads.

Dash No.	Tube O.D.	Price Ea.	Dash No.	Tube O.D.	Price Ea.
-2	1/8	---	-10	5/8	---
-3	3/16	---	-12	3/4	---
-4	1/4	---	-14	---	---
-5	5/16	---	-16	1	---
-6	3/8	---	-20	1-1/4	---
-8	1/2	---			

AN931 ELASTIC GROMMETS
(MS35489)

Flexible grommets, made of black synthetic rubber to specification MIL-G-3036. Resistant to hot oil & coolant. Used to protect tubing, wiring and control cables where they pass through bulkheads & firewalls.

Part No.	MS35489	ID	OD	Hole Size	Thickness	Price
AN931-2-9	-2	1/8	3/4	9/16	3/16	---
AN931-2-16	-3	1/8	1-1/4	1	1/4	---
AN931-3-5	-4	3/16	7/16	5/16	3/16	---
AN931-3-9	-134	3/16	3/4	9/16	3/16	---
AN931-4-7	-6	1/4	5/8	7/16	3/16	---
AN931-4-12	-7	1/4	1	3/4	1/4	---
AN931-4-16	-8	1/4	1-1/4	1	1/4	---
AN931-5-9	-9	5/16	13/16	9/16	5/16	---
AN931-5-12	-10	5/16	1	3/4	5/16	---
AN931-6-10	-11	3/8	7/8	5/8	5/16	---
AN931-6-16	-12	3/8	1-1/4	1	1/4	---
AN931-7-11	-13	7/16	15/16	11/16	5/16	---
AN931-8-13	-14	1/2	1-1/16	13/16	5/16	---
AN931-8-20	-15	1/2	1-1/2	1-1/4	1/4	---
AN931-9-13	-16	9/16	1-1/16	13/16	5/16	---
AN931-10-14	-17	5/8	1-1/8	7/8	5/16	---
AN931-10-20	-18	5/8	1-1/2	1-1/4	1/4	---
AN931-11-16	-19	11/16	1-5/16	1	3/8	---
AN931-12-17	-20	3/4	1-3/8	1-1/16	3/8	---
AN931-12-20	-135	3/4	1-5/8	1-1/4	1/4	---
AN931-12-23	-21	3/4	1-13/16	1-7/16	3/8	---
AN931-14-20	-22	7/8	1-5/8	1-1/4	7/16	---
AN931-16-22	-23	1	1-3/4	1-3/8	7/16	---

MS29513 FUEL RESISTANT O-RINGS

These MS29513 series O-rings are resistant to fuel and are ideal for applications such as fuel injection connections and primers. A small amount of fuel proof grease applied to these O-rings helps the installation and operation of primers. Not resistant to automotive fuels.

Part Number	Nominal Size			Price Each
	I.D.	O.D.	Width	
MS29513-005	3/32	7/32	1/16	---
MS29513-006	1/8	1/4	1/16	---
MS29513-007	5/32	9/32	1/16	---
MS29513-008	3/16	5/16	1/16	---
MS29513-009	7/32	11/32	1/16	---
MS29513-010	1/4	3/8	1/16	---
MS29513-011	5/16	7/16	1/16	---
MS29513-012	3/8	1/2	1/16	---
MS29513-013	7/16	9/16	1/16	---
MS29513-014	1/2	5/8	1/16	---
MS29513-015	9/16	11/16	1/16	---
MS29513-016	5/8	3/4	1/16	---
MS29513-017	11/16	13/16	1/16	---
MS29513-020	7/8	1	1/16	---
MS29513-028	1-3/8	1-1/2	1/16	---
MS29513-031	1-3/4	1-7/8	1/16	---
MS29513-033	2	2-1/8	1/16	---
MS29513-110	3/8	9/16	3/32	---
MS29513-111	7/16	5/8	3/32	---
MS29513-112	1/2	11/16	3/32	---
MS29513-113	9/16	3/4	3/32	---
MS29513-114	5/8	13/16	3/32	---
MS29513-115	11/16	7/8	3/32	---
MS29513-116	3/4	15/16	3/32	---
MS29513-130	1-5/8	1-13/16	3/32	---
MS29513-137	2-1/16	1/4	3/32	---
MS29513-138	2-1/8	2-5/16	3/32	---
MS29513-148	2-3/4	2-15/16	3/32	---
MS29513-155	4	4-3/16	3/32	---
MS29513-214	1	1-1/4	1/8	---
MS29513-220	1-3/8	1-5/8	1/8	---
MS29513-232	2-3/4	3	1/8	---
MS29513-233	2-7/8	3-1/8	1/8	---
MS29513-237	3-3/8	3-5/8	1/8	---
MS29513-264	7-1/2	7-3/4	1/8	---
MS29513-337	3-3/8	3-3/8	3/16	---
MS29513-338	3-1/8	3-1/2	3/16	---
MS29513-339	3-1/4	3-5/8	3/16	---
MS29513-241	3-7/8	4-1/8	1/8	---

M25988 O-RINGS

M25988 O-Rings, these O-Rings are intended for packing and are oil & fuel resistant.

Description	Part No	Price
M25988/1-022 Packing O-Ring	08-10778	---
M25988/1-212 Packing O-Ring	08-10779	---
M25988/1-928 Packing O-Ring	08-10782	---
M25988/1-010 Packing O-Ring	05-12763	---
M25988-1-022 Packing O-Ring	04-03839	---
M25988-1-114 Packing O-Ring	04-02534	---
M25988/1-212 Packing O-Ring	04-03831	---
M25988/1-904 Packing O-Ring	04-03884	---
M25988/1-905 Packing O-Ring	04-03885	---
M25988/1-916 Packing O-Ring	04-03832	---
M25988/1-928 Packing O-Ring	04-03841	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AN6227B O-RINGS

AN6227B and AN6230B 0-rings are manufactured to Spec. MIL-P 25732 for use in hydraulic systems using MIL-0-5606 hydraulic oils. MS28775 O-rings meet Spec. MIL-P- 5510A and are suitable for MIL-0-5606 hydraulic fluid at 160 F.

Part No.	MS Equivalent	Width	ID	OD	Price
AN6227B-1	MS28775-6	1/16	1/8	1/4	---
AN6227B-2	MS28775-7	1/16	5/32	9/32	---
AN6227B-3	MS28775-8	1/16	3/16	5/16	---
AN6227B-4	MS28775-9	1/16	7/32	11/32	---
AN6227B-5	MS28775-10	1/16	1/4	3/8	---
AN6227B-6	MS28775-11	1/16	5/16	7/16	---
AN6227B-7	MS28775-12	1/16	3/8	1/2	---
05-04892	MS28775-13	1/16	7/16	9/16	---
05-04893	MS28775-14	1/16	1/2	5/8	---
05-04646	MS28775-015	1/16	9/16	11/16	---
05-04894	MS28775-16	1/16	5/8	3/14	---
05-04895	MS28775-17	1/16	11/16	13/16	---
05-04896	MS28775-18	1/16	3/4	7/8	---
05-04897	MS28775-19	1/16	13/16	15/16	---
05-04898	MS28775-20	1/16	7/8	1	---
05-04899	MS28775-21	1/16	11/16	1-1/16	---
MS28775-022	MS28775-022	1/16	1	1-1/8	---
05-04901	MS28775-23	1/16	1-1/16	1-3/16	---
05-04902	MS28775-24	1/16	1-1/8	1-1/4	---
05-04903	MS28775-25	1/16	1-3/16	1-5/16	---
05-04911	MS28775-026	1/16	1-1/4	1-3/8	---
05-04912	MS28775-027	1/16	1-5/16	1-7/16	---
05-04913	MS28775-028	1/16	1-3/8	1-1/2	---
AN6227B-8	MS28775-110	3/32	3/8	9/16	---
AN6227B-9	MS28775-111	3/32	7/16	5/8	---
AN6227B-10	MS28775-112	3/32	1/2	11/16	---
AN6227B-11	MS28775-113	3/32	9/16	3/4	---
AN6227B-12	MS28775-114	3/32	5/8	13/16	---
AN6227B-13	MS28775-115	3/32	11/16	7/8	---
AN6227B-14	MS28775-116	3/32	3/4	15/16	---
05-04914	MS28775-117	3/32	13/16	1	---
MS28775-118	MS28775-118	3/32	7/8	1-1/16	---
05-04915	MS28775-119	3/32	15/16	1-1/8	---
05-04916	MS28775-120	3/32	1	1-3/16	---
05-04917	MS28775-121	3/32	1-1/16	1-1/4	---
05-04918	MS28775-122	3/32	1-1/8	1-5/16	---
05-04919	MS28775-123	3/32	1-3/16	1-3/8	---
05-04920	MS28775-124	3/32	1-1/4	1-7/16	---
05-04921	MS28775-125	3/32	1-5/16	1-1/2	---
05-04922	MS28775-126	3/32	1-3/8	1-9/16	---
05-04923	MS28775-127	3/32	1-7/16	1-5/8	---
05-04924	MS28775-128	3/32	1-1/2	1-11/16	---
05-04925	MS28775-129	3/32	1-9/16	1-3/4	---
05-04926	MS28775-130	3/32	1-5/8	1-13/16	---
05-04927	MS28775-131	3/32	1-11/16	1-7/8	---
05-00850	MS28775-132	3/32	1-3/4	1-15/16	---
05-05142	MS28775-134	3/32	1-7/8	2-1/16	---
05-05143	MS28775-135	3/32	1-15/16	2-1/8	---
05-05144	MS28775-136	3/32	2	2-3/16	---
05-05145	MS28775-137	3/32	2-1/16	2-1/4	---
05-05146	MS28775-138	3/32	2-1/8	2-5/16	---
05-05147	MS28775-139	3/32	2-3/16	2-3/8	---
05-05148	MS28775-140	3/32	2-1/4	2-7/16	---
05-05149	MS28775-141	3/32	2-5/16	2-1/2	---
05-05150	MS28775-142	3/32	2-3/8	2-9/16	---

Part No.	MS Equivalent	Width	ID	OD	Price
05-05151	MS28775-143	3-32	2-7/16	2-5/8	---
05-05152	MS28775-144	3/32	2-1/2	2-11/16	---
05-05153	MS28775-145	3/32	2-9/16	2-3/4	---
05-05154	MS28775-146	3/32	2-5/8	2-13/16	---
05-05155	MS28775-147	3/32	2-11/16	2-7/8	---
05-05156	MS28775-148	3/32	2-3/4	2-15/16	---
05-05157	MS28775-149	3/32	2-13/16	3	---
AN6227B-15	MS28775-210	1/8	3/4	1	---
AN6227B-16	MS28775-211	1/8	13/16	1-1/16	---
AN6227B-17	MS28775-212	1/8	7/8	1-1/8	---
AN6227B-18	MS28775-213	1/8	15/16	1-3/16	---
AN6227B-19	MS28775-214	1/8	1	1-1/4	---
AN6227B-20	MS28775-215	1/8	1-1/16	1-5/16	---
AN6227B-21	MS28775-216	1/8	1-1/8	1-3/8	---
AN6227B-22	MS28775-217	1/8	1-3/16	1-7/16	---
AN6227B-23	MS28775-218	1/8	1-1/4	1-1/2	---
AN6227B-24	MS28775-219	1/8	1-5/16	1-9/16	---
AN6227B-25	MS28775-220	1/8	1-3/8	1-5/8	---
AN6227B-26	MS28775-221	1/8	1-7/16	1-11/16	---
AN6227B-27	MS28775-222	1/8	1-1/2	1-3/4	---
05-01013	MS28775-233	1/8	2-7/8	3-1/8	---
05-05158	MS28775-236	1/8	3-1/4	3-1/2	---
05-05159	MS28775-237	1/8	3-3/8	3-5/8	---
05-05160	MS28775-238	1/8	3-1/2	3-3/4	---
05-05161	MS28775-239	1/8	3-5/8	3-7/8	---
05-05162	MS28775-240	1/8	3-3/4	4	---
05-05163	MS28775-241	1/8	3-7/8	4-1/8	---
05-05164	MS28775-242	1/8	4	4-1/4	---
05-05165	MS28775-243	1/8	4-1/8	4-3/8	---
04-03882	MS28775-244	1/8	4-1/4	4-1/2	---
05-05166	MS28775-245	1/8	4-3/8	4-5/8	---
05-05167	MS28775-246	1/8	4-1/2	4-3/4	---
05-05168	MS28775-247	1/8	4-5/8	4-7/8	---
MS28775-261	MS28775-261	1/8	6-3/4	7	---
MS28775-267	MS28775-267	1/8	8-1/4	8-1/2	---
MS28775-272	MS28775-272	1/8	9-1/2	9-3/4	---
AN6227B-28	MS28775-325	3/16	1-1/2	1-7/8	---
AN6227B-29	MS28775-326	3/16	1-5/8	2	---
AN6227B-30	MS28775-327	3/16	1-3/4	2-1/8	---
AN6227B-31	MS28775-328	3/16	1-7/8	2-1/4	---
AN6227B-32	MS28775-329	3/16	2	2-3/8	---
AN6227B-33	MS28775-330	3/16	2-1/8	2-1/2	---
AN6227B-34	MS28775-331	3/16	2-1/4	2-5/8	---
AN6227B-35	MS28775-332	3/16	2-3/8	2-3/4	---
AN6227B-36	MS28775-333	3/16	2-1/2	2-7/8	---
AN6227B-38	MS28775-335	3/16	2-3/4	3-1/8	---
AN6227B-39	MS28775-336	3/16	2-7/8	3-1/4	---
AN6227B-40	MS28775-337	3/16	3	3-3/8	---
AN6227B-41	MS28775-338	3/16	3-1/8	3-1/2	---
AN6227B-42	MS28775-339	3/16	3-1/4	3-5/8	---
AN6227B-43	MS28775-340	3/16	3-3/8	3-3/4	---
AN6227B-44	MS28775-341	3/16	3-1/2	3-7/8	---
AN6227B-45	MS28775-342	3/16	3-5/8	4	---
AN6227B-46	MS28775-343	3-16	3-3/4	4-1/8	---

AN6230B O-RINGS

Part No.	MS Equivalent	Width	ID	OD	Price
AN6230B-1	MS28775-223	1/8	1-5/8	1-7/8	---
AN6230B-2	MS28775-224	1/8	1-3/4	2	---
AN6230B-3	MS28775-225	1/8	1-7/8	2-1/8	---
AN6230B-4	MS28775-226	1/8	2	2-1/4	---
AN6230B-5	MS28775-227	1/8	2-1/8	2-3/8	---
AN6230B-6	MS28775-228	1/8	2-1/4	2-1/2	---
AN6230B-7	MS28775-229	1/8	2-3/8	2-5/8	---
AN6230B-8	MS28775-230	1/8	2-1/2	2-3/4	---
AN6230B-9	MS28775-231	1/8	2-5/8	2-7/8	---
AN6230B-10	MS28775-232	1/8	2-3/4	3	---

VITON MS83248 O-RINGS

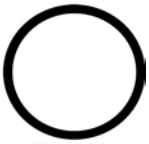
Fluorocarbon rubber o-rings. Fluorocarbon rubber is commonly known as Viton. It is an advanced rubber that has extremely good fuel and heat resistance and is ideally suited for aircraft fuel system applications.

Model	Specifications	Part No.	Price
M83248/1-006	1/8 ID X 1/4 OD X 1/16 W	05-22191	---
M83248/1-008	3/16 ID x 5/16 OD x 1/16 W	05-12761	---
M83248/1-010	1/4 ID x 3/8 OD x 1/16 W	04-03305	---
M83248/1-011	5/16 ID x 7/16 OD x 1/16 W	08-13085	---
M83248/1-022	--	04-04173	---
M83248/1-015	9/16 ID x 11/16 OD x 1/16 W	04-03836	---
M83248/1-119	13/16 ID x 15/16 OD x 1/16 W	05-14681	---
M83248/1-111	7/16 ID x 5/8 OD x 3/32 W	04-02549	---
M83248/1-113	9/16 ID x 3/4 OD x 3/32 W	04-02551	---
M83248/1-115	11/16 ID x 7/8 OD x 3/32 W	04-03837	---
M83248/1-117	13/16 ID x 1 OD x 3/32 W	08-10794	---
M83248/1-120	1 ID x 1-3/16 OD x 3/32 W	04-03833	---
M83248/1-126	1-3/8 ID x 1-9/16 OD x 3/32 W	04-03835	---
M83248/1-127	--	04-04170	---
M83248/1-130	--	04-04171	---
M83248/1-133	--	04-04172	---
M83248/1-216	--	05-13046	---
M83248/1-224	2-7/16 ID x 2-5/8 OD x 3/32 W	04-03840	---
M83248/1-224	1-3/4 ID x 2 OD x 1/8 W	04-03842	---
M83248/2-904	--	04-04165	---

800-0001-6 PACKING SEAL

The 800 Series Lock-O-Seal is a two piece combination seal comprised of a separately molded O-ring fitted within a surrounding metal washer. These Lock-O-Seals are intended to seal beneath the head of a fastener .....P/N 05-14698 .....

M83461/1-222 MILITAR NITRILE O-RING



Used in MIL-H-5606 Fluid; Aircraft Hydraulic Fluid. Better dynamic performance than MS28775. Excellent resistance to petroleum-based products; hydraulic fluids; most silicone fluids; and fuels. Excellent resistance. Dimensions: (1-1/2 ID X 1-3/4 OD X 1/8 W)
P/N 04-03601 ..... ---

AS3569-232 O-RING

O-Ring AS3569-232. (2-3/4 ID X 3 OD X 1/8 W).
P/N 04-02528 ..... ---

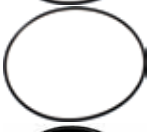
AS3208-4 O-RING

O-Ring AS3208-4.....P/N 05-27151 ..... ---

AS3209-016 O-RING

O-Ring AS3209-016.....P/N 05-27153 ..... ---

AS3209-126 O-RING



O-Ring AS3209-126.....P/N 05-27152 ..... ---

MS28776M2-22 METAL SCRAPER RING

P/N 05-15260 ..... ---

NAS1611 O-RING

O-rings give effective sealing over wide ranges of pressure, temperature, and movement, with the advantage of sealing pressure in both directions and reducing friction and wear on moving parts. The use of O-rings as gaskets or static seals permits metal-to-metal contact and allows almost unlimited pressures under extreme vibration.

Part No	MS Equivalent	Width	ID	OD	Price
NAS1611-268	MS28775-268	1/8	8-1/2	8-3/4	---

AN901 O-RINGS

AN901 tube connection seals are fabricated from type1100 alum., H14 temper.
Discount Less 20% For 100 Per Size

AN901 Dash No.	Tube O.D.	Price Each	AN901 Dash No.	Tube O.D.	Price Each
-4A	1/4	---	-8A	1/2	---
-5A	5/16	---	-10A	5/8	---
-6A	3/8	---	-12A	1-1/16	---
-4C	1/4	---	-10C	5/8	---
-5C	5/16	---	-12C	3/4	---
-6C	3/8	---	-16A	1	---

AN/MS O-RING KIT

This AN/MS O-Ring Kit includes over 382 O-rings made of Nitrile Buna N 70 duro material. These rings have a temperature range of -6 to 275°F and are for use with petroleum oils and fluids. Size range in kit is 0 through 30.(O-Ring Set An6227B-1, -30).....P/N 05-02210 ..... ---

AS568A O-RING KIT

- 70 Duro Nitrile
- 382 O rings
- Great kit for the homebuilder
- Sizes: -06 to -32 ....P/N 13-02804 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

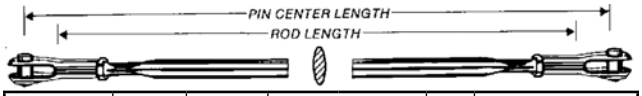
TIE RODS - GROMMET EDGING

BRUNTON TIE RODS

These high quality aircraft wires and terminals are manufactured in Scotland by Bruntons Aero Products who first originated streamline wires in 1909. They feature the stronger rolled threads and are available in high polish or satin finish. Material is 316 high tensile stainless steel. Wires are also available in BSF or metric threads. Special wires with combination streamline and round section commonly used for biplane roll wires or seaplane float installations are available. Wires are manufactured to AN specifications and are 100% proof loaded. Wires ordered with terminal assemblies are supplied assembled. Quality certifications are provided with all orders.

Aircraft tie rods carry tensile loads for bracing wings, tail assemblies as well as float installations. They may be ordered separately or with terminal assemblies (AN665 terminal, clevis pin, jam nut, cotter pin). AN specs define thread lengths as well as a fixed difference in length between rod length and pin center length (K). Order pin center lengths ONLY when AN665 terminals are used on both ends of the wire. All other installations must order rod length. Due to fluctuations in international exchange rates, the prices of Brunton tie rods are subject to change. We guarantee the lowest prices and fastest delivery on all Brunton tie rods. Request current pricing. Allow 8-10 weeks for delivery of Brunton tie rods.

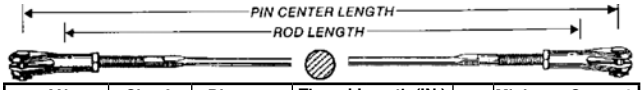
STREAMLINE TIE RODS



AN Number	Size & Thread	Diameter Inches	Thread Length (IN.) RH	Thread Length (IN.) LH	K	Minimum Strength Pounds
AN671AC-	6-40	.138	1 3/4	1 1/4	1 1/4	1,200
AN673AC-	10-32	.190	1 7/8	1 3/8	1 1/2	2,400
AN674AC-	1/4-28	.250	2 1/8	1 5/8	1 7/8	4,200
AN675AC-	5/16-24	.3125	2 1/4	1 3/4	2 1/8	6,900
AN676AC-	3/8-24	.375	2 3/8	1 5/8	2 1/4	10,000
AN677AC-	7/16-20	.4375	2 5/8	2 1/8	2 1/2	13,700
AN678AC-	1/2-20	.500	2 7/8	2 3/8	2 7/8	18,500
AN679AC-	9/16-18	.5625	3 1/8	2 5/8	3 1/4	24,000
AN680AC-	5/8-18	.625	3 3/8	2 7/8	3 1/2	29,500
AN682AC-	3/4-16	.750	3 3/4	3 1/4	4 3/8	42,000

CALL FOR CURRENT PRICING!

ROUND TIE RODS



AN Number	Size & Thread	Diameter Inches	Thread Length (IN.) RH	Thread Length (IN.) LH	K	Minimum Strength Pounds
AN701AC-	6-40	.138	1 3/4	1 1/4	1 1/4	1,000
AN703AC-	10-32	.190	1 7/8	1 3/8	1 1/2	2,100
AN704AC-	1/4-28	.250	2 1/8	1 5/8	1 7/8	3,400
AN705AC-	5/16-24	.3125	2 1/4	1 3/4	2 1/8	6,100
AN706AC-	3/8-24	.375	2 3/8	1 7/8	2 1/4	8,000
AN707AC-	7/16-20	.4375	2 5/8	2 1/8	2 1/2	11,500
AN708AC-	1/2-20	.500	2 7/8	2 3/8	2 7/8	15,500

CALL FOR CURRENT PRICING!

SEALS-IT GROMMET SEALS

Grommet seals have many applications. In race cars they serve to keep unwanted smoke and fumes from entering the driver's area while protecting lines from chafing and abrading on rough surfaces. In hot rods and custom car applications, they provide the perfect "finishing touch" to all through panel installations. Wiring, fuel and oil lines, air and liquid hoses, and all other lines that make up your rod or custom, can make an otherwise detailed installation look unfinished. Seals-It grommet seals add the well-organized, professional appearance you want. Grommet seals also have many other applications including: marine, commercial equipment,

Grommet Seal 1 Hole Series			
Dia.	Hole	Part No.	Price
1.5"	n/a	05-02493	---
2.0"	n/a	05-02494	---
3.0"	n/a	05-02495	---
3.0"	.250	05-02496	---
3.0"	.375	05-02497	---
3.0"	.500	05-02498	---
3.0"	.625	05-02499	---
3.0"	.750	05-02501	---
3.0"	.950	05-02502	---
3.0"	1.180	05-02503	---
4.0"	1.00	05-02505	---
4.0"	1.80	05-02506	---
4.5"	1.50	05-02507	---
4.5"	2.12	05-02508	---
6.0"	n/a	05-02509	---

Grommet Seal 2 Hole Series			
Dia.	Hole	Part No.	Price
All Rubber Blank 5-1/4"		05-02510	---
1-1/2"	2.125	05-02511	---
2 Hole Blank 5-1/4"		05-02512	---
2 Hole Blank 5-1/4"		05-2519	---
1/4"	2.750	05-02520	---
3/8"	2.750	05-02521	---
1/2"	2.750	05-02522	---
5/8"	2.750	05-02523	---
3/4"	2.750	05-02524	---
1"	2.750	05-02525	---

SPRING-FAST® GROMMET EDGING

SL Series | BAP Series | MS22529/1 | MS22529/2

Spring-Fast® Composite Grommet Edging covers sharp edges of panels that come in contact with wire and cables and mechanically lock on indefinitely with finger pressure in only seconds per foot. They provide a significant time reduction in assemblies. A long-term reliability solution that replaces nylon caterpillar plastic grommets and associated solvents, adhesives, and ancillary materials to protect critical equipment from failure due to wire chaffing.

Spring-Fast® Grommet Edging is approved by the FAA and U.S. Department of Defense per NASM 22529/a and NASM 22529/2 for all aircraft applications. Meets FAR 25.853 for flammability and MIL 1344 for shock and vibration. Spring-Fast® is available for 8 different sheet thickness ranges from 0.025 to 0.260 and can be purchased in either 10 piece packs of 12.75" long pieces, or 25 or 100-foot reels. Use Spring-Fast® BAP and SL series for flanged lightning hole and three-axis contours. The BAP Series Flexi-Grommet is perfect for roll formed edges and small lightening holes. Where wires are routed in the same plain as the sheet metal, the Spring-Fast® SL Series provides a trim characteristic for all edges with or without cabling nearby.

MFG Number	Sheet Thickness	Package Size	Our Part No.	Price Ea.
M22529/2-1R	.025-.036	Per Foot	05-00673	---
M22529/2-1C-10PK	.025-.036	10pcs/12.75"	05-00674	---
M22529/2-2R	.036-.063	Per Foot	05-00675	---
M22529/2-2C-10PK	.036-.063	10pcs/12.75"	05-00676	---
M22529/2-3R	.059-.074	Per Foot	05-00677	---
M22529/2-3C-10PK	.059-.074	10pcs/12.75"	05-00678	---
M22529/2-4R	.070-.093	Per Foot	05-00679	---
M22529/2-4C-10PK	.070-.093	10pcs/12.75"	05-00680	---
M22529/2-5R	.090-.111	Per Foot	05-00681	---
M22529/2-6R	.105-.134	Per Foot	05-00683	---
M22529/2-7R	.178-.198	Per Foot	05-00685	---
M22529/2-8R	.240-.260	Per Foot	05-00688	---

See aircraftspruce.com for our complete selection of grommet edging

BAP SERIES GROMMET EDGE

Spring-Fast® BAP Flexi Wire Protection Grommet® Series has all the attributes of the "T" and "BT" Series grommet edging, but has greater gripping strength for severe shock and vibration environments with 4-axis flexibility. Heat continuous to 185°F (85°C) Low Temperature to -40°F (-40° C) High Corrosion Resistance UL94 V-0 Flammability Rating Superior Dielectric Strength High Shock and Vibration Resistance to rms G 41.7 Multi-axis flexibility for rounded inside and outside corners Continuous Edge Protection on Flanged Holes, 1/8" or greater Inside Radius and 1/4" or greater Outside Radius.

SL SERIES GROMMET EDGE

Sold by the foot or in a 10 foot roll. Spring-Fast® SL Series plastic trim has similar attributes of the "AP" and "BAP" Series grommet edging. Features: Substrate: Stainless Steel, Flammability rating: UL94 V-0, RoHS Compliant, DFARS Compliant, Multi axis flexibility, Heat continuous to 185°F (85°C), Low temperature to -40°F (-40°C), Indoor or outdoor use

High gripping strength, High corrosion resistance, High dielectric strength, High shock and vibration resistance per rms G 41.7, Multi-axis flexibility for rounded inside and outside corners, Continuous edge protections on flanged holes, 1/8" or greater inside radius and 1/4" or greater outside radius. Color: Black

SEE WWW.AIRCRAFTSPRUCE.COM FOR SL AND BAP SERIES P/N'S & PRICING

SPRING-FAST® INSTALLATION PRODUCTS

Description	Part No.	Price
DTI Shears HP 830	05-32332	---
Grommet Scale 860GSB	05-04448	---
Roller Installation Tool 840R	05-04449	---

AP

AN100 CABLE THIMBLES

Made of cadmium plated steel or stainless steel per procurement specification MIL T-5677. Used to form sturdy eye end on control cable. Form cable around thimble and secure with Nicopress sleeve.

Cadmium Plated Steel Thimbles			Cable Size	Stainless Steel Thimbles		
AN Part No.	Price Each	Price Per 100		AN Part No.	Price Each	Price Per 100
AN100-3	---	---	1/16”	AN100C-3	---	---
AN100-4	---	---	3/32”,1/8”	AN100C-4	---	---
AN100-5	---	---	5/32”	AN100C-5	---	---
AN100-6	---	---	3/16”	AN100C-6	---	---
AN100-7	---	---	7/32”	AN100C-7	---	---
AN100-8	---	---	1/4”	AN100C-8	---	---
AN100-12	---	---	3/8”	AN100C-12	---	---

AN111 CABLE BUSHINGS

Made of cadmium plated steel. Used in same manner as AN100 cable thimble.

Dash No.	Cable Size	Price Ea.	Dash No.	Cable Size	Price Ea.
-3	1/16”, 3/32”	---	-5	5/32”	---
-4	1/8”	---	-6	3/16”	---

AN115 CABLE SHACKLES

Made of cadmium plated forged steel per specification MIL-S-5675.

AN 115 Dash No.	Shackle Strength Lbs.	Cable Size	Used With		Price Each
			Thimble	Clevis Pin	
-8	800	1/16”	AN100-3	AN393-9	---
-21*	2100	3/32”, 1/8”	AN100-4	AN393-11	---
-32	3200	5/32”	AN100-5	AN394-15	---
-46	4600	3/16”	AN100-6	AN395-17	---

***Replaces AN115 - 16. May be assorted.**

WIRE ROPE SLEEVES (MS51844)

Oval shaped copper sleeves used in making eye or lap splices in flexible cable. Sleeves are slipped over the two strands of cable to be fastened and are then compressed with special Nicopress hand squeezers. Provides a bond that is even stronger than a standard splice. “18” Series sleeves are plain copper and “28” Series sleeves are zinc plated.

Part No	Nicopress Ref.	Cable Dia.	Material /Finish	Price	
				Each	100
MS51844-42	18-1-C	1/16”	Copper/Plain	---	---
MS51844-43	18-2-G	3/32”	Copper/Plain	---	---
MS51844-44	18-3-M	1/8”	Copper/Plain	---	---
MS51844-45	18-4-P	5/32”	Copper/Plain	---	---
MS51844-46	18-6-X	3/16”	Copper/Plain	---	---
MS51844-22	28-1-C	1/16”	Copper/Zinc	---	---
MS51844-23	28-2-G	3/32”	Copper/Zinc	---	---
MS51844-24	28-3-M	1/8”	Copper/Zinc	---	---
MS51844-25	28-4-P	5/32”	Copper/Zinc	---	---
MS51844-26	28-6-X	3/16”	Copper/Zinc	---	---

STOP SLEEVES

These copper stop sleeves are used on the ends of bare cables.

Cable Dia.	Model No.	Part No.	Price Ea.
1/16”	ST2-2	04-00899	---
3/32”	ST2-3	04-00901	---
1/8”	ST2-4	04-00902	---
5/32”	ST2-5	04-00903	---
3/16”	ST2-6	04-02061	---

NAS287 TERMINAL CHAIN

NAS287-25-3 3/32” cable size.....P/N 04-02064 ..... ---
NAS287-25-2 1/16” cable size.....P/N 04-02032 ..... ---
NAS287-35-4 1/8” cable size.....P/N 04-02065 ..... ---

AN481 CLEVIS FORK ROD ENDS (MS27976)

Manufactured of 1035 or 1042 carbon steel and cadmium plated. Minimum tensile strength 65,000 PSI. For welding to steel tubing or riveting to aluminum tubing. All sizes fit inside of 3/8” O.D. x .035 wall steel tubing.

Current Part No.	Old Part No.	Clevis Pin Hole Dia.	Fork Width		Price Each
			Overall	Inside	
MS27976-1	AN481-1P	1/4”	1/2”	17/64”	---
MS27976-2	AN481-2P	1/4”	5/16”	9/64”	---
MS27976-3	AN481-3P	3/16”	1/2”	17/64”	---
MS27976-4	AN481-4P	3/16”	5/16”	9/64”	---

AN486 THREADED CLEVIS FORK ROD ENDS (MS27975)

These rods ends are machined from 1035 or 1042 carbon steel and cadmium plated. Minimum tensile strength 65,000 PSI. They are internally threaded 1/4”-28. Used for engine controls.

Current Part No.	Old Part No.	Clevis Pin Hole Dia.	Fork Width		Internal Thread	Price Each
			Overall	Inside		
MS27975-1	AN486-1P	1/4”	1/2”	17/64”	**1/4-28**	---
MS27975-2	AN486-2P	1/4”	5/16”	9/64”	**1/4-28**	---
MS27975-3	AN486-3P	3/16”	1/2”	17/64”	**1/4-28**	---
MS27975-4	AN486-4P	3/16”	5/16”	9/64”	**1/4-28**	---
05-01437	AN486-1032 Non-Plated	3/16”	7/16”	3/16”	**10-32**	---

AN490 THREADED ROD ENDS

Manufactured of 4130 steel, heat-treated and cadmium plated. Minimum tensile strength 125,000 PSI. For welding to steel tubing or riveting to aluminum tubing.

Part Number	Thread Size	Used With Tube Size	Price Each
AN490HT5P	1/4-28	5/16”x.035	---
AN490HT6P	1/4-28	3/8”x.035	---
AN490HT8P	1/4-28	1/2”x.035	---
AN490HT10P	5/16-24	5.8”x.035	---
AN490HT11P	5/16-24	3/4”x.035	---
AN490HT14P	3/8-24	3/4” x .035	---
AN490HT15P	5/16-24	1/2”x.058	---
AN490HT16P	3/8-24	1/2”x.058	---

AN665 THREADED CLEVIS TIE ROD TERMINALS

These Zinc plated steel terminals are manufactured to AN specifications, with either right-hand or left-hand threads. Example: P/N AN665-10L has a 6-40 left-hand thread. AN665-34R has a 1/4-28 right-hand thread. Order Terminal Assemblies if locknut, clevis pin, and cotter pin are required along with terminal. Otherwise, only terminals are supplied.

*Note - Cad Plated Terminals are no longer being manufactured due to environmental reasons. Once the cad plated stock is depleted the zinc plated terminals will be shipped. Please note that we cannot guarantee cad plated terminals will be received.

Dash No.		Thread Size	Fork Pin Hole Dia.	Inside Width	Strength (Lbs.)	Rt. only Price Ea.	Lt. only Price Ea.
Right Hand	Left Hand						
-10R	-10L	6-40	.190”	.109”	1200	---	---
-21R	-21L	10-32	.190”	.150”	2400	---	---
-34R	-34L	1/4-28	.250”	.203”	4200	---	---
-46R	-46L	5/16-24	.313”	.203”	4600	---	---
-61R	-61L	5/16-24	.375”	.203”	6900	---	---
-80R	-80L	3/8-24	.375”	.266”	10000	---	---

AN665 TERMINAL ASSEMBLIES

These terminal assemblies include the AN665 terminals plus the appropriate lock nut, clevis pin, and cotter pin.

Description	Part No.	Price	Description	Part No.	Price
AN665-10R	05-02300	---	AN665-10L	05-02400	---
AN665-21R	05-02500	---	AN665-21L	05-02600	---
AN665-34R	05-02700	---	AN665-34L	05-02800	---
AN665-46R	05-02900	---	AN665-46L	05-03000	---
AN665-61R	05-03100	---	AN665-61L	05-03200	---
AN665-80R	05-03300	---	AN665-80L	05-03400	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CABLE TERMINALS

The finest and best means of attaching fittings to cable. Properly swaged to the cable, these terminals will maintain the minimum rated breaking strength of that cable. These terminals are made of stainless steel alloy having the best swaging and corrosion resistant properties and have a polished finish.

SA110 PLAIN BALL

Meet all requirements for Boeing's BACT14B Plain Ball End Fittings and NAS494 series Plain Ball End Fittings. All balls are manufactured from stainless steel as specified in MIL-DTL 781 and are certified to the appropriate standard(s).

Dash No.	Cable Dia.	Sphere Dia.	Strength Lbs.	Price
2	1/16	.188	80	---
3	3/32	.250	735	---
4	1/8	.312	1200	---
5	5/32	.375	1680	---
6	3/16	.437	2520	---

MS20664C BALL & SINGLE SHANK

Dash No.	Cable Dia.	Sphere Dia. after Swage	Breaking Strength Lbs.	Price
2	1/16	.190	480	---
3	3/32	.253	920	---
4	1/8	.315	2000	---
5	5/32	.379	2800	---
6	3/16	.442	4200	---

MS20663C BALL & DOUBLE SHANK

Dash No.	Cable Dia.	Sphere Dia. after Swage	Breaking Strength Lbs.	Price
2	1/16	.190	480	---
3	3/32	.253	920	---
4	1/8	.315	2000	---
5	5/32	.379	2800	---
6	3/16	.442	4200	---

MS20667 FORK END

Dash No.	Cable Dia.	Breaking Strength Lbs.	Pin Hole Dia.	Fork Width "G"	Price
2	1/16	480	.190	.093	---
3	3/32	920	.190	.108	---
4	1/8	2000	.190	.195	---
5	5/32	2800	.250	.202	---
6	3/16	4200	.313	.260	---

MS20668 EYE END

Manufactured from stainless steel in accordance with the requirements of MIL-DTL-781 and are certified to those standards.

Dash No.	Cable Dia.	Breaking Strength Lbs.	Pin Hole Dia.	Eye End Width "J"	Price
2	1/16	480	.190	.088	---
3	3/32	920	.190	.103	---
4	1/8	2000	.190	.190	---
5	5/32	2800	.250	.197	---
6	3/16	4200	.313	.255	---

MS21259 STUD END

Manufactured from stainless steel to the strict standards of MS21259. They are certified to the MS21259 standard.

Dash No.	Cable Dia.	Breaking Strength Lbs.	Thread Size NF-3	Price
2	1/16	480	6-40	---
3	3/32	920	10-32	---
4	1/8	2000	1/4-28	---
5	5/32	2800	1/4-28	---
6	3/16	4200	5/16-24	---

Add "RH" or "LH" after dash numbers for right or left hand threads

AP

MS21260 TURNBUCKLE END

Dash No. Short	Price Each	Dash No. Long	Price Each	Cable Dia.	Thread Size	Min. Breaking Strength (lbs)
-S2RH	---	-L2RH	---	1/16"	6-40	480
-S2LH	---	-L2LH	---			
-S3RH	---	-L3RH	---	3/32"	10-32	920
-S3LH	---	-L3LH	---			
-S4RH	---	-L4RH	---	1/8"	1/4-28	2000
-S4LH	---	-L4LH	---			
-S5RH	---	-L5RH	---	5/32"	1/4-28	2800
-S5LH	---	-L5LH	---			
-S6RH	---	-L6RH	---	3/16"	5/16-24	4200
-S6LH	---	-L6LH	---			

* Universally replaces the canceled AN669 & NAS650 parts identified by the same dash no.
* AN100 thimble not included.
** For short barrels listed above. Use two per assembly.

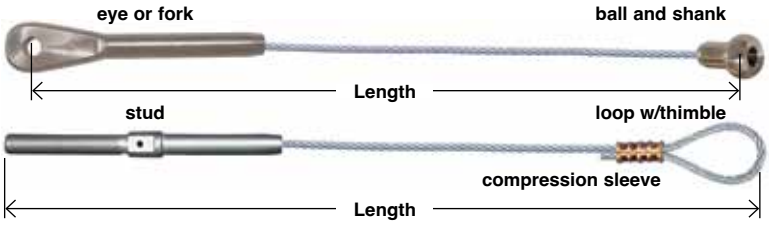
SA361 EYE END & SA362 FORK END

Part No.	Cable	Hole Dia.	Width	Price	Part No.	Cable	Hole Dia.	Width	Price
SA361-2	1/16	.188	.088	---	SA362-2	1/16	.188	.093	---
SA361-3	3/32	.188	.103	---	SA362-3	3/32	.188	.108	---
SA361-4	1/8	.188	.190	---	SA362-4	1/8	.188	.195	---
SA361-5	5/32	.250	.197	---	SA362-5	5/32	.250	.096	---
SA361-6	3/16	.313	.255	---	SA362-6	3/16	.313	.125	---

NAS1435 EYE FORKS

Part No.	Cable Dia.	A	B	C	D	E	F	Price
NAS1435K2	1/16	1-1/16	.454	.188	.042	3/8	.093	---
NAS1435K3	3/32	1-1/2	.616	.188	.049	7/16	.108	---
NAS1435K4	1/8	1-5/8	.638	.188	.093	1/2	.195	---
NAS1435K5	5/321	-31/32	.699	.250	.096	9/16	.202	---
NAS1435K6	3/16	2-3/16	.750	.313	.125	11/16	.260	---

CUSTOM-MADE CABLE ASSEMBLIES



Measure eye and fork terminals from center of pin holes. Measure ball fittings from center of ball. Measure stud terminals from end of terminal. Measure loop with thimble from surface of thimble.

SEE "TOOLS" SECTION FOR KEARNEY PORTABLE SWAGER. CUSTOM-MADE CABLE ASSEMBLIES ARE SPECIAL ORDER AND NON-RETURNABLE.

The terminals featured on this page must be installed with a rotary swaging tool, which is too costly for purchase by a homebuilder or small shop. We offer swaging service and custom-made cable assemblies in cable sizes of 1/16" to 5/32" diameter.

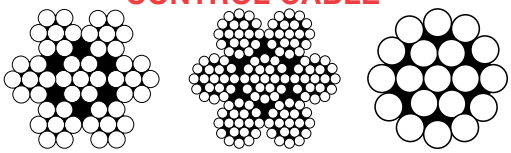
Select the cable fittings of your choice, specify cable size, cable construction, stainless steel or galvanized cable and length. Measure length of cable assembly as shown in the illustration. We will furnish complete cable assembly ready for installation. A simple drawing of the assembly required is appreciated and will expedite shipment.

Custom Cable Assemblies are fabricated in House by Aircraft Spruce for Prompt Shipment.

CABLE – FORKS – PUSHROD FITTINGS

AP

CONTROL CABLE



7x7 7x19 1x19

- **Galvanized** - MIL-DTL-83420 replaces MIL-2-83420
- **Stainless** - MIL-DTL-83420 replaces both Galvanized & Stainless

Cable Dia. (In.)	Constr.	Breaking Strength		Part Number		Price/Ft.	
		Galv.	SS	Galv.	SS	Galv.	SS
1/16	7x7	480 lbs.	480 lbs.	05-03600	05-03500	---	---
1/16	7X19	--	480 lbs.	----	05-15069	----	---
3/32	7x7	920 lbs.	920 lbs.	05-03800	05-03700	---	---
3/32	7x19	1000 lbs.	920 lbs.	05-04000	05-03900	---	---
1/8 (Right Lay)	1x19	2100 lbs.	2100 lbs.	----	05-04100	----	---
1/8	7x19	2000 lbs.	1760 lbs.	05-04400	05-04300	---	---
5/32 (Right Lay)	1x19	--	3300 lbs.	----	05-04500	----	---
5/32	7x19	2800 lbs.	2400 lbs.	05-04800	05-04700	---	---
3/16	7x19	4200 lbs.	3700 lbs.	05-05000	05-04900	---	---
1/4	7x19	7000 lbs.	6400 lbs.	05-05200	05-05100	---	---

COATED CONTROL CABLES

Description	Part No.	Price/ft.
1/16" 7x7 Black Coated Stainless Steel	15-06042	---

CONTROL CABLE SPECIFICATIONS

- **7 X 7 FLEXIBLE CONTROL CABLE -** Has seven strands of seven wires each. Used for control purposes where extreme flexibility is not required but where abrasion is a factor.
- **7 X 19 FLEXIBLE CONTROL CABLE -** Has seven strands of 19 wires each. Its greater metallic area makes it stronger than 7 x 7 cable. Because of its fine wires the best service is obtained where abrasion is not too severe. These same wires, however, make it flexible to meet severe bending.
- **1 X 19 NON-FLEXIBLE CABLE -** Is one strand of 19 wires. It has more metallic area than 7 x 7 or 7 x 19 constructions which makes it the strongest but also the least flexible. 1 x 19 is generally used for bracing purposes, drag and anti-drag wires. It is often used with swage type terminals.
- The major difference between aircraft and commercial cable is the lubrication applied to aircraft cable, which provides substantially better fatigue life than non-lubricated commercial cable. Aircraft cable requires extensive extra testing, documentation, certification to meet military specifications. Aircraft Spruce obtains its aircraft cable from domestic sources and the cable is certified to MIL Spec MIL, W-83420 and QPL Certified.

PRESTRETCHED CABLES

Prestretched cables are a product where the cable has been placed under a load in a reel to reel supplemental operation where either a 50% or 60% load, depending on either Stainless(50%) or Galvanized(60%) material, for a 5 second period. This is done in accordance with MIL-DTL-5688.

Cable Dia.	Constr.	Galv. Strength	SS Strength	Galv. Part No.	Galv. Per Ft.	SS Part No.	SS Per Ft.
1/16"	7X7	480	480	05-11286	---	05-11445	---
3/32"	7X7	920	920	05-11287	---	05-11446	---
3/32"	7X19	1000	920	---	---	05-11447	---
1/8"	7X19	2000	1760	05-11289	---	05-11448	---

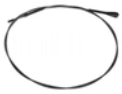
CESSNA FLIGHT CONTROL CABLES

These FAA-PMA approved cable assemblies are available in stainless or galvanized cable and are constructed of highest quality U.S. made materials. All components are fully traceable and each assembly is load tested and length stabilized. Over 2000 cable assemblies in stock. Custom cable assemblies can be fabricated to your specification.

- **AS0510105** **Series for Cessna 170, 172, 180, 182, and 185**
- **AS0400107** **Series for Cessna 150, and 152**
- **AS1660300** **Series for Cessna 188**
- **AS62701** **Series for Piper PA28, PA32, and PA34**
- **ACA** **Series for Schweizer G-164**

CALL THE CESSNA/PIPER PARTS SPECIALIST AT 1-877-4SPRUCE WITH YOUR CESSNA OR PIPER CABLE ASSEMBLY PART NUMBER FOR PRICING OR FOR SSISTANCE IN DETERMINING THE PART NUMBER YOU REQUIRE FOR YOUR AIRCRAFT.

BEECH FLIGHT CONTROL CABLES



McFarlane Beechcraft flight control cables and chains are coated with a corrosion inhibiting compound that meets Military Specification MIL-PRF-16173. This is the same compound used on all factory original Beechcraft flight control cables.FAA/PMA

Model	Part No.	Price
MCNAS30327-0590 Tab Actuating	05-04625	---
MCNAS30434-1520	05-04624	---
MC33-524000-17	05-06981	---
MC35-524385	05-06985	---
MCNAS31414-1871	05-06987	---
MCNAS31514-1871	05-06988	---
MCNAS30425-0100	05-06989	---

PUSHROD THREADED END FITTING

Fits 5/8" diameter pushrods. 1/4 - 28 threaded hole. Secure to aluminum pushrod with two cross riveted or bolted fasteners. Made from 6061-T6 5/8" diameter x 1-5/8" long rod. Two sizes available.

Fits: 5/8" x .058" tube .....P/N 05-01150 ..... **---**

PUSHROD FORKED END FITTING

Fits 5/8" diameter pushrods. 3/16" pivot hole with .090" wide slot for bellcrank. Secure to aluminum pushrod with two cross riveted or bolted fasteners. Made from 6061-T6 5/8" diameter x 2-3/8" long rod. Two sizes available.

Fits: 5/8" x .058" tube .....P/N 05-01130 ..... **--- ea.**

RUDDER CABLE FAIRING SETS FOR RV'S

Pre-formed .025" thick aluminum fairings for rudder cable exit on RV fuselages. (None are supplied with the RV kits). Set contains (2) identical fairings - 1 for use on cables and 1 spare (could be used on elevator trim). Each will require some trimming to fit before riveting.

P/N 12-00635 ..... **---**

CABLE FAIRLEADS

Nylon construction for external use. Two halves with retaining clip.

3/4" O.D. x 3/4" L .....P/N 05-05500 ..... **--- Set**

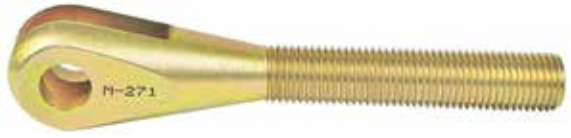
3/4"O.D. x 1" L.....P/N 05-05600 ..... **--- Set**

Clips Only... P/N 05-05700 .....**--- Ea.**

SEE TOOL SECTION FOR CABLE TENSIOMETERS

WING STRUT ADJUSTMENT FORK & BARREL SETS

Conforms to AD. 81-25-05. The heavy-duty, high tensile strength strut fork has rolled threads, an improved alloy with heartier design for added strength, and a permanent indentification mark to provide assurance of conformity for ease in field installation. Forks require a five year inspection per A.D. 93-10-06.



FAA/PMA. J-5 & PA-12, 14, 18, 20 & 22. Replacement for 4481-02. Includes bolt, nut, cotter pin & jam nut. 3/8" bolt hole. Measures 7/16" x 20 thread.

P/N 05-06100 ..... **---**

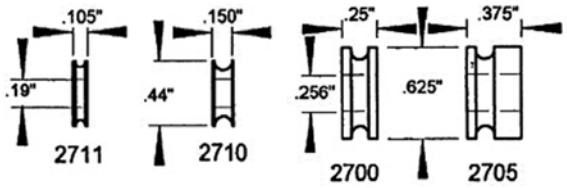
Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

SADDLES - FITTINGS - TANGS - BRACKETS

ALUMINUM SADDLE

Specs: Fits 1.63 inch I Base OD 1.0 inch I Hole 0.266 inch I Height 0.125 inch Super-tough saddles. Made of aluminum.
P/N-Type 4315/I .....P/N 04-00927 ..... ---

CABLE FITTINGS



Description	Part No.	Price
1/16" Cable, Steel, AN111-3	05-01939	---
3/32" Cable, Aluminum	CF2700	---
3/32" Cable, Aluminum	CF2705	---
1/16" Cable, Stainless, AN111C-3	CF2710S	---

NYLON WASHERS

05-01969 **05-01970**

Model	Part No.	O.D.	I.D.	Thickness	Price Ea.
NW2059	05-01970	.875	.256	.031	---
NW2055	05-01969	.256	.500	.060	---

CONTROL CABLE FAIRINGS

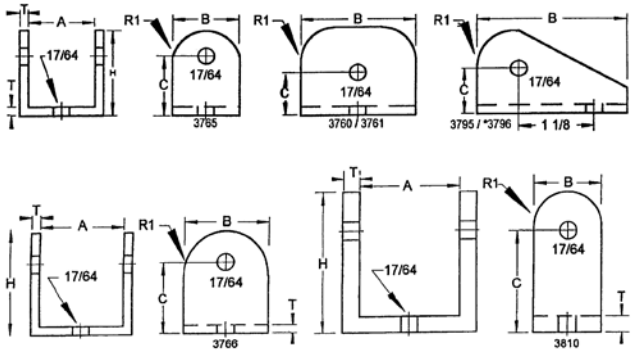
Injection molded ABS plastic fairings used to cover hole in airframe where control cables emerge such as the rudder cables at the rear of the fuselage. May be installed on any airframe surface but is most normally used on fabric covered aircraft where they are bonded on with fabric cement and covered with a fabric patch .....P/N 05-05750..... **--- pair**

TANGS

Made of 304 stainless steel. All measurements are in inches.

No.	Maxair	Description	T	A	B	C	D	Part No.	Price
3	T11-DFT	3-Hole Flat	14G	1.91	1.09	.26	.26	05-02077	---
	T8-DFT	3-Hole Flat	12G	1.91	1.09	.32	.26	05-02078	---

ALUMINUM BRACKETS



Model	Part No.	A	B	C	H	T	R1	ALLOY	Each
B3772	05-01930	.500	.750	.500	.750	.125	---	6061-T6	---
B3765	05-01928	1.000	1.000	.875	1.250	.125	.500	6063-T5	--
B3760	05-01926	1.000	1.750	.625	1.250	.125	.500	6063-T5	--
B3761	05-01927	1.000	1.750	.906	1.250	.125	.750	6063-T5	--
B3795	---	1.000	2.250	.670	1.250	.125	.500	6063-T5	--
B3766	05-01929	1.250	1.250	1.062	1.500	.125	.750	6063-T5	--
B3796	---	1.250	2.375	.875	1.500	.125	.500	6063-T5	--
B3810	05-01931	1.500	1.000	1.500	2.000	.250	.500	6061-T6	--

ELBOW FITTINGS

These are tube fittings used to assemble parts to an ultralight frame. No specific ultralight or application.
1" x .083" .....P/N 15-05250 ..... ---
1" x .058" .....P/N 15-05249 ..... ---

PLUG BUTTONS

Nickel Plated Plug Buttons.

Manufacture Part No.	Hole Size	Head Diameter	Panel Thickness	Material	Finish	Part Number	Price
3750	1/4"	13/32"	0.035-0.062"	Steel	Nickel	04-04112	---
3751	3/8"	1/2"	0.037-0.078"	Steel	Nickel	04-04113	---
3752	1/2"	21/32"	0.037-0.062"	Steel	Nickel	04-04114	---
3753	5/8"	13/16"	0.062-0.078"	Stainless Steel	--	04-04115	---
3754	3/4"	15/16"	0.037-0.093"	Steel	Nickel	04-04116	---
3755	7/8"	1-1/16"	0.031-0.093"	Stainless Steel	--	04-04117	---
3756	1"	1-1/8"	0.062-0.093"	Stainless Steel	--	04-04118	---
10231	1-1/4"	1-7/16"	0.062-0.093"	Steel	Nickel	04-04119	---
10232	1-1/2"	1-21/32"	0.038-0.141"	Steel	Nickel	04-04120	---

TURNBUCKLE COMPONENTS

TURNBUCKLES COMPLETE ASSEMBLIES

Complete turnbuckle assemblies consist of a brass barrel and two steel ends, one with right-hand thread and the other with left-hand thread. Order by proper AN number and add dash number and a letter to indicate length and strength required.

AN130 ASSEMBLY

AN135 ASSEMBLY

AN140 ASSEMBLY

AN150 ASSEMBLY

AN 146 Assembly consists of 1 - AN 155 barrel, 1-AN161 Fork and 1 MS21260 Turnbuckle End.

AP

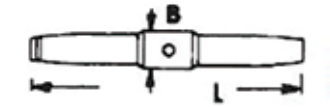
Complete turnbuckle assemblies consist of a brass barrel and two steel ends, one with right-hand thread and the other with left-hand thread. Order by proper AN number and add dash number and a letter to indicate length and strength required.

Part No.	Length	Strength (Pounds)	Price
AN130-8S	4-1/2	800	---
AN130-16S	4-1/2	1600	---
AN130-16L	8	1600	---
AN130-22S	4-17/32	2200	---
AN130-32S	4-19/32	3200	---
AN130-32L	8-7/64	3600	---
AN130-46S	4-21/32	4600	---
AN130-46L	8-5/32	4600	---
AN130-61L	8-9/32	6100	---
AN135-8S	4-1/2	800	---
AN135-16S	4-1/2	1600	---
AN135-16L	8	1600	---
AN135-22S	4-17/32	2200	---

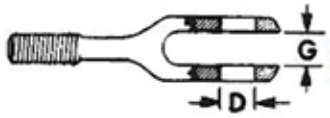
Part No.	Length	Strength (Pounds)	Price
AN135-32S	4-19/32	3200	---
AN135-32L	8-7/64	3200	---
AN135-46S	4-21/32	4600	---
AN135-46L	8-5/32	4600	---
AN135-61L	8-9/32	6100	---
AN140-8S	4-1/2	800	---
AN140-16S	4-1/2	1600	---
AN140-16L	8	1600	---
AN140-22S	4-1/2	2200	---
AN140-22L	8	2200	---
AN140-32S	4-1/2	3200	---
AN140-32L	8	3200	---
AN140-46S	4-1/2	4600	---

Part No.	Length	Strength (Pounds)	Price
AN140-46L	8	4600	---
AN140-61L	8	6100	---
AN150-8S	4-1/2	800	---
AN150-16S	4-1/2	1600	---
AN150-16L	8	1600	---
AN150-22S	4-17/32	2200	---
AN150-22L	8-1/32	2200	---
AN150-32S	4-19/32	3200	---
AN150-32L	8-7/64	3200	---
AN150-46S	4-21/32	4600	---
AN150-46L	8-5/32	4600	---
AN150-61L	8-9/32	6100	---
AN150-80L	8-5/16	8000	---

TURNBUCKLE PARTS DIMENSIONS

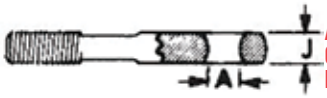


AN155 BARREL



AN161 FORK

AN165 PIN EYE



AN170 CABLE EYE

The "R" or "L" following the dash number designates "right" or "Left." The "S" or "L" (2nd letter following dash number) indicates "short" or "long." AN 161 Fork and AN 170 Cable Eye are available with either right or left-hand thread.

AN161 FORK

AN155 BARREL

AN170 CABLE EYE

AN165 PIN EYE

Dash No.	Thread Size	AN 155 Barrel		AN 161 Fork		AN 165 Pin Eye		AN170 Cable Eye	
		"L"	"B"	"G"	"D"	"J"	"D"	"J"	"A"
-8S	6-40	2-1/4	.250	.109	.188	.125	.188	.125	.188
-16S	10-32	2-1/4	.344	.156	.188	.1625	.188	.188	.219
-16L	10-32	4	.344	.156	.188	.1625	.188	.188	.219
-22S	1/4-28	---	---	.187	.188	.188	.188	.188	.219
-22L	1/4-28	---	---	.187	.188	.188	.188	.188	.219
-32S	1/4-28	2-1/4	.438	.218	.250	.219	.250	.219	.281
-32L	1/4-28	4	.438	.218	.250	.219	.250	.219	.281
-46S	5/16-24	2-1/4	.500	.250	.313	.281	.313	.281	.313
-46L	5/16-24	4	.500	.250	.313	.281	.313	.281	.313
-61L	3/8-24	---	---	.270	.375	.281	.375	.281	.344
-80L	3/8-24	4	.625	.312	.375	.328	.375	.328	.375

TURNBUCKLE PARTS PRICES

AN155 Dash No.	Barrel Price Each	TURNBUCKLE ENDS Dash No.	Price Each AN 161	Price Each AN 165	Price Each AN 170
-8S	---	-8RS	---	---	---
-8S	---	-8LS	---	---	---
-16S	---	-16RS	---	---	---
-16S	---	-16LS	---	---	---
-16L	---	-16RL	---	---	---
-16L	---	16LL	---	---	---
		-22RS	---	---	---
		-22LS	---	---	---
		-22RL	---	---	---
		-22LL	---	---	---

AN155 Dash No.	Barrel Price Each	TURNBUCKLE ENDS Dash No.	Price Each AN 161	Price Each AN 165	Price Each AN 170
-32S	---	-32RS	---	---	---
		-32LS	---	---	---
-32L	---	-32RL	---	---	---
		-32LL	---	---	---
-46S	---	-46RS	---	---	---
		-46LS	---	---	---
-46L	---	-46RL	---	---	---
		-46LL	---	---	---
-61L	Use	-61RL	---	---	---
6.95	-80L	-61LL	---	---	---
-80L	---	-80RL	---	---	---
		-80LL	---	---	---

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Please view our website for current prices.

MS CLIP-LOCKING TURNBUCKLE COMPONENTS

Clip-Locking Turnbuckles utilize 2 locking clips instead of lock-wire for safety. The turnbuckle barrel and terminals are slotted lengthwise to accommodate the locking clips. After the proper cable tension is reached the barrel slots are aligned with the terminal slots and the clips are inserted. The curved ends of the locking clips expand and latch in the vertical slot in the center of the barrel. Build up MS turnbuckle assemblies, similar to the AN assemblies listed on the preceding page, by selecting a turnbuckle barrel, 2 end fittings and 2 clips from the components listed in the Table below. The price of the complete assembly is the sum of the prices shown for the components. Example: An MS turnbuckle assembly for 3/32" dia. cable, with fork end and pin eye consists of:

1 MS21251-B3S Barrel ..... ---
1 MS21252-3LS Fork End..... ---
1 MS21254-3RS Pin Eye End..... ---
2 MS21256-1 Clips ..... ---/ea.

Note: MS21256-1 clips are short (1") and MS21256-2 are long (2").

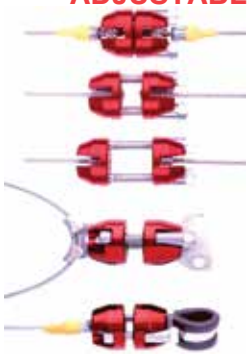
Turnbuckle Component	Part No.	Cable Dia.	Thread Size	Min. Breaking Strength	Price Each
Barrel (supersedes AN155)	MS21251-B2S	1/16"	6-40	800 lbs.	---
	-B3S	3/32"	10-32	1600 lbs.	---
	-B5S	5/32"	1/4-28	3200 lbs.	---
	-B5L	5/32"	1/4-28	3200 lbs.	---
Fork End (supersedes AN161)	MS21252-2RS	1/16"	6-40	800 lbs.	---
	-2LS				---
	-3RS	3/32"	10-32	1600 lbs.	---
	-3LS				---
	-4LL	1/8"	1/4-28		---
	-4LS				---
	-5RS	1/8", 5/32"	1/4-28	3200 lbs.	---
	-5LS				---
Pin Eye End (supersedes AN165)	MS21254-2RS	1/16"	6-40	800 lbs.	---
	-2LS				---
	-3RS	3/32"	10-32	1600 lbs.	---
	-3LS				---
	-5RS	1/8", 5/32"	1/4-28	3200 lbs.	---
	-5LS				---
Cable Eye (supersedes AN170)	MS21255-2RS Stainless	1/16"	6-40	800 lbs.	---
	-2LS				---
	-3RS	3/32"	10-32	1600 lbs.	---
	-C3RS	3/32"	10-32	1600 lbs.	---
	-3LS				---
	-5RS	1/8", 5/32"	1/4-28	3200 lbs.	---
	-5LS				---
Cable Swage End (supersedes AN669)	MS21260-S2RH	1/16"	6-40	480 lbs.	---
	-S2LH				---
	-S3RH	3/32"	10-32	920 lbs.	---
	-S3LH				---
	-S4RH	1/8"	1/4-28	2000 lbs.	---
	-S4LH				---
	-S5RH	5/32"	1/4-28	2800 lbs.	---
	-S5LH				---
Clip*-	MS21256-1	- -	- -	- -	---
	MS21256-2	- -	- -	- -	---

SAFETY WIRE

Available in Type 302/304 stainless steel (soft temper) per MS20995. Also, in soft annealed brass per specification QQ-W-321, Type A.Stainless steel safety wire furnished in convenient 1 lb. dispensing container. Annealed brass safety wire is furnished in a convenient 1 lb. dispensing container.

Wire Dia. In.	Wire Type	Part No.	Price Per lb.
.020	Stainless Steel	05-02684	---
.025	Stainless Steel	05-06831	---
.032	Stainless Steel	05-02685	---
.032	Brass	05-02686	---
.041	Stainless Steel	05-02687	---
.041	Brass	05-06600	---
.051	Stainless Steel	05-11922	---

ADJUSTABLE CABLE CONNECTOR

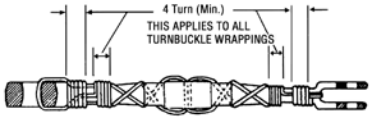


The ACC provides a strong positive connection with tensioning and maximum liner travel in a confined cable installation. Accommodates 3 standard cable terminals, (SA-110 plain ball, MS20664C ball & single shank, and AN111 cable bushing) including combinations of cable-to-cable & cable-to-bracket. It is light & compact without compromising safety. It utilizes an original design of overlapping walls and ridges to enhance the strength of each working surface. The ACC is precision CNC machined 7075 anodized aluminum. Stainless Steel Allen screws work in tandem to provide cable tensioning. 2 stainless tube-nuts provide additional structural security and prevent loosening with interlocking threads. 2 stainless steel pins are locked in place between the adjustment screws and provide an anchor for cable bushings or customized brackets. If necessary, longer adjustment screws can be used to accommodate insufficient cable lengths.

.032, Pin Diameter 1/4" .....P/N 05-01343 ..... ---

SAFETY METHODS FOR TURNBUCKLES

Safety all turnbuckles with .041 dia. annealed safety wire using either the double or single wrap as described and illustrated. Do not reuse safety wire. Adjust the turnbuckle to the correct cable tension so that no more than 3 threads are exposed on either side of the turnbuckle barrel. Do not lubricate turnbuckles.



(A) DOUBLE WRAP (SPIRAL)

Of the methods using safety wire for safety turnbuckles, the method described here is preferred, although either of the other methods described are satisfactory. The method of double wrap safety is shown in figure (A). Use 2 separate lengths of the proper wire. Run one end of the wire through the hole in the barrel of the turnbuckle and bend the end of the wire towards opposite end of the turnbuckle. Then pass the second length of the wire into the hole in the barrel and bend the ends along the barrel on the opposite side first. Spiral the 2 wires in opposite directions around the barrel to cross each other twice between the center hole and the ends. Then pass the wires at the end of the turnbuckle in opposite directions through the holes in the turnbuckle eyes or between the jaws of the turnbuckle fork as applicable, laying one wire along the barrel and wrapping the other at least four times around shank of the turnbuckle and binding the laid wires in place before cutting the wrapped wire off. Wrap the remaining length of safety wire at least 4 turns around the shank and cut it off. Repeat the procedure at the opposite end of the turnbuckle.

(B) DOUBLE WRAP

Another satisfactory double wrap method is similar to Method A. except that the spiraling of the wires is omitted as shown in figure (B).

(C) SINGLE WRAP (SPIRAL)

The single wrap methods described and illustrated are acceptable but are not the equal of the double wrap methods.

Pass a single length of wire through the cable eye or fork at either end of the turnbuckle assembly. Spiral each of the wire ends in opposite directions around the first half of the turnbuckle so as to cross each other twice. Thread both wire ends through the hole in the middle of the barrel so that the third crossing of the wire ends is in the hole. Again, spiral the two wire ends in opposite directions around the remaining half of the turnbuckle, crossing them twice. Then, pass one wire end through the cable eye or fork in the manner described above, wrap both wire ends around the shank for at least four turns each, cutting off excess wire.

(D) SINGLE WRAP

Pass one length of wire through the center hole of the turnbuckle and bend the wire ends toward opposite ends of the turnbuckle. Then pass each wire end through cable eye or fork and wrap each wire end around the shank for at least four times, cutting off excess wire. After safety, no more than 3 threads of the turnbuckle terminal should be exposed.

PULLEYS

AN210A & AN210B (MS24566)
Anti-Friction Bearing Control Pulley with phenolic body and ball bearing with seal. The AN210A pulleys are dimensionally the same as the "B" pulleys but have metal-shielded bearings rather than removable composition-seal type bearings. The low allowable design load of the -3A and -3B pulleys-is based on cable fatigue. AN210-1A, AN210-3A, AN210-1B and AN210-3B shall not be installed on frequently used aircraft controls to bend the cable more than 15° from a straight line.
MS20220 (AN220) Flight Control Pulley with phenolic body and ball bearing with seal. Also available with aluminum body (MS20220A). The low allowable load limit of the -1 pulley is based on cable fatigue. When used on frequently used aircraft controls the cable wrap angle should not be more than 15° from a straight line.
MS20219 (AN219) Aircraft Secondary Control Pulley with phenolic body and ball bearing with seal. MS20219A (AN219A) Pulley with anodized aluminum body and ball bearing with seal. The aluminum body is recommended for -1 and -3 pulleys. The -1 pulley shall not be installed in flight control systems.
Examples of Part No.: Phenolic Body - MS20219-1
Aluminum Body - MS20219A1
NAS383 Series Pulley with phenolic body and graphite impregnated bronze sleeve. This is a low cost pulley widely used in aircraft, winches, cranes and remote mechanical actuation devices.
A-223 and A-224 Pulleys with plain phenolic bore are used as guide and secondary control pulleys in production aircraft.
BB-128-1 and BB-120-1 Pulleys have high pressure phenolic bodies and ball bearings with Teflon seals. Used in Christavia and many other aircraft.

SPECIAL PULLEYS

1-1/2 Inch Pulley
For smooth control operation. Manufactured for aircraft float rudder operation, the pulleys can be used in virtually any application. Solid UHMW plastic for use in tough, caustic environments. Bushing insert is stainless steel with minimum lubrication required. Used with 1/16" thru 1/8" - 7x7 or 7x19 control cable. Bushing is clamped in pulley bracket. Pulley rotates on bushing. Pulley: 1-1/2" dia. x .283" wide. Bushing: 1/4" O.D. x 3/16" I.D. x .328" long. Weight: .26 oz. (including stainless bushing).....P/N 05-29725 ..... **--- ea.**
2 Inch Pulley
Larger cables, bigger job? Wherever you need a tough, durable pulley, look no further.Replace your old worn out, sticky pulleys with NAP UHMW plastic for smooth control operation. Used with 3/32" thru 3/16" - 7x7 or 7x19 control cable. Bushing insert is stainless steel with minimum lubrication required. Bushing is clamped in pulley bracket. Pulley rotates on bushing. Fits DeHavilland Beaver floats Pulley: 2" dia. x .470" wide. Bushing: 5/16" O.D. x 1/4" I.D. x .487" long. Weight: .58 oz. (including stainless bushing).....P/N 05-29730 ..... **--- ea.**

PIPER PULLEYS

Fig.	Ref. #	Description	O.D.	I.D.	Part No.	Price
1	41171-000	Pulley, trimcrank with bushing (fiber)	2 3/4"	3/8"	05-02636	---
1a	40991-000	Pulley (no slot)	2 3/4"	3/8"	05-02637	---
2	41001-008	Pulley w/ bearing (fiber)(41001-010)	2 3/4"	5/16"	05-02638	---
3	80421-000	Pulley (fiber)	1 3/4"	1/4"	05-02639	---
4	481-609	Pulley (fiber)	1 1/2"	1/4"	05-02640	---
5	11200-000	Pulley (fiber)	1 1/8"	1/4"	05-02641	---
6	43001-000	Pulley (fiber)	1"	1/4"	05-02642	---
7	43061-000	Pulley, stabilizer screw (aluminum)	2 3/4"	3/8"	05-02643	---
8	12983-000	Pulley, double groove (aluminum)	2 3/4"	3/8"	05-02644	---
9	10080-000	Pulley, trimcrank (aluminum)	2 3/4"	3/8"	05-02645	---
10	11008-000	Pulley, adj. screw(alum.) single groove	4"	3/8"	05-02646	---
11	12982-000	Pulley, adj. screw (alum.) dbl. groove	4"	3/8"	05-02647	---

AIRCRAFT PULLEY OIL

Save the labor of re-oiling the control system every year! Aircraft pulley oil prevents pulley drag and stickiness.
Pully Oil Pint .....P/N 05-04178 ..... **---**
Pully Oil Kit - Includes: 1 Pint of Pulley Oil, 1 Needle, 1 Each 4.5" Extension, and 1 Each 8" Extension
P/N 05-04179 ..... **---**
Pully Oiler Kit - Includes: 1 Needle oiler with oil, 1 each 4.5" extension & 1 each 8" extension
P/N 05-04180 ..... **---**

ALUMINUM PULLEYS

Dimensions of these aluminum pulleys are same as equivalent size of MS20219 and MS20220 Phenolic Pulleys in table.

Part No	Cable Size (in).	OD	Groove Dia	Hub Dia.	Bore Dia.	Width	Price Each
MS20219A1	1/16, 3/32	1.312	1.00	.423	.2500	.438	---
MS20219A3	1/16, 3/32	1.750	1.438	.769	.6250	.438	---
MS20220A1	1/8, 5/32, 3/16	1.755	1.255	.475	.3125	.625	---
MS20220A2	1/8, 5/32, 3/16	3.005	2.505	.115	.3125	.625	---
MS20220A3	1/8, 5/32, 3/16	4.255	3.755	.115	.3125	.625	---
MS20220A4	1/8, 5/32, 3/16	5.505	5.005	.115	.3125	.625	---

PHENOLIC PULLEYS

Part Number	Cable Size (In.)	OD	Groove Dia	Hub Dia.	Bore Dia.	Width	Load Limit (Lbs.)	Price Each
MS24566-1B	1/16,5/64,3/32	1.250	.972	.625	.1900	.297	300	---
MS24566-2B	1/16,5/64,3/32	2.500	2.222	.777	.1900	.297	500	---
MS24566-3B	1/8,5/32,3/16	2.000	1.510	.901	.2500	.484	600	---
MS24566-4B	1/8,5/32,3/16	3.500	3.010	.901	.2500	.484	1200	---
MS20219-1	1/16, 3/32	1.312	1.000	.423	.2500	.438	480	---
MS20219-2	1/16,3/32	1.750	1.438	.423	.2500	.438	480	---
MS20219-3	1/16, 3/32	1.750	1.438	.769	.6250	.438	480	---
MS20219-4	1/16, 3/32	2.625	2.312	.423	.2500	.438	920	---
MS20220-1	1/8,5/32,3/16	1.755	1.255	.475	.3125	.625	500	---
MS20220-2	1/8,5/32,3/16	3.005	2.505	.475	.3125	.625	1680	---
MS20220-3	1/8,5/32,3/16	4.255	3.755	.475	.3125	.625	2500	---
MS20220-4	1/8,5/32,3/16	5.505	5.005	.475	.3125	.625	2500	---
A-223	1/16,3/32,1/8	1.000	.688	---	.2500	.281	---	---
A-224	1/16,3/32,1/8	1.750	1.375	---	.2500	.250	---	---
A-138 (NAS)	1/16,3/32,1/8	1.250	.875	---	.2500	.265	---	---
A-123 (NAS)	1/16,3/32,	2.000	1.500	---	.2500	.265	---	---
A-124 (NAS)	1/16, 3/32	2.500	2.000	---	.2500	.265	---	---
A-130 (NAS)	1/8, 5/32	2.000	1.375	---	.3750	.438	---	---
A-120 (NAS)	5/32, 3/16	3.000	2.375	---	.3750	.438	---	---
BB-128	3/16	2.500	1.875	---	.2500	.440	---	---
BB-120	3/16	3.000	2.375	---	.2500	.440	---	---

MCS378 SERIES PULLEYS FOR CESSNAS

MCS378-1 MCS378-2 MCS378-3

MCS378-4 MCS378-5

Aircraft Spruce stocks all pulleys required for Cessna single engine aircraft. Our MCS378 series pulleys replace the AN, NAS and S378 series pulleys commonly used on the Cessna aircraft. Pulley kits are available that contain all of the pulleys and cotter pins required for one aircraft.
Approved Replacements for Cessna Pulleys -Cessna Model/Series
120,140,140A,150,A150,A-A150,F150,FA150,FRA150,152,A152,F152,FA152,170,172,F172,FR172,172RG,FP172,P172,R172,175,177,177RG,F177RG,180,182,A182,F182,FR182,R182, TR182,T182,185,A185,188,A188, A A188,T188,205,206,P206,TU206,T206, TP206,U206,207,T207,208,210, P210, T210, T303, 310, T310, 320, 335, 336, 337, F337, P337, FP-337, T337, O-2, 340,401,402,404,411,414,421,425,441,500,501
*Replaces the listed Cessna part numbers in the specific aircraft illustrated parts catalogs. Installer must verify applicability prior to installation.

Model No.*	Replaces Cessna Part No.*	Part No.	Price
MCS378-1	S378-1 and S378-1L	05-03422	---
MCS378-2	S378-2, A124, AN210-2B and NAS383-2	05-03423	---
MCS378-3	S378-3, S378-3L, A130, AN210-3B, BB-208 and NAS383-3	05-03424	---
MCS378-4	S378-4, A114, AN210-4B and NAS383-4	05-03425	---
MCS378-5	S378-5	05-03426	---

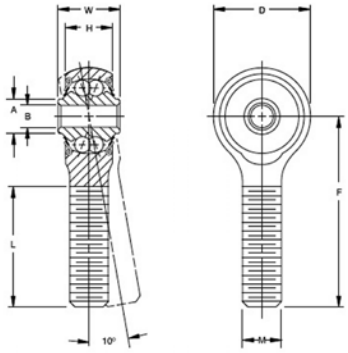
PULLEY KIT FOR CESSNAS

This kit contain all pulleys and cotter pins required to replace all flight control system pulleys in one airplane. Fits many Cessna 172 models. See our website for eligibility list. .....P/N 05-11977 ..... **---**

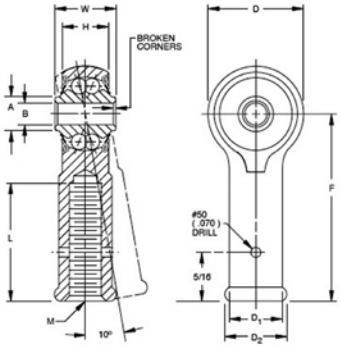
Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BEARINGS

AN 946 MS 21151
MALE THREADED SHANK

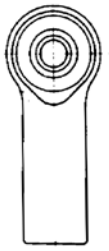


AN 951 MS 21153
FEMALE THREADED SHANK



AN948 HOLLOW SHANK
SOLID SHANK

MS21152
MS21150



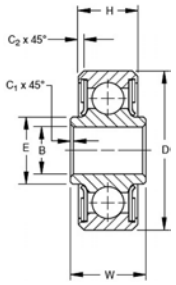
Bearing No.	MS Dash No.	B Bore +.0000 -.0005 In.	D Outside Diam. +.010 -.010 In.	W Width Inner Ring +.000 -.010 In.	H Width Outer Ring +.010 -.010 In.	A Shoulder Diam. Inner Ring (Approx.) In.	F Bore Center to end of Shank +.010 -.010 In.	G Overall Dimension +.010 -.010 In.	L Thread Length of Shank Hole Depth In.	J Bead or Hex Diam. Across Flats In.	K Shank Diam. +.010 -.010 In.	M Thread Or Drill Size Inches Size	M Thread Or Drill Size Inches Pitch Diam.	Balls No.	Balls Size	Lbs. Approx.	Weight Type Seal	Price Each
MALE THREAD - MS 21151																		
Precision series. Double row, ball, self-aligning. 10° permissible misalignment in either direction. These bearings are manufactured with an internal play of .0004 in. (.010mm) max. Inner and outer raceway surface finish = 8 micro in. AA max. Equipped with PTFE seals. Exposed surfaces except bore, cap, and seals are cadmium plated. Outer shank – 90,000 psi min. tensile strength. Prelubricated (refer to nomenclature page)																		
												10-32	.1697	20	1/8”	.04	Solid Seal	---
REP3ML3	-1	.1900	.781	.437	.328	.281	1.375	1.766	.750			LH	.1667					
												10-32	.1697					
REP3MR3	-2	.1900	.781	.437	.328	.281	1.375	1.766	.750			RH	.1667	20	1/8”	.04	Solid Seal	---
												3/8”-24	.3479					
REP3M6A	-3	.1900	.969	.500	.407	.304	2.031	2.516	1.313			RH	.3449	24	1/8”	.05	Solid Seal	---
												3/8”-24	.3479					
REP3M6-2N	-4	.1900	.781	.437	.328	.281	1.375	1.766	.750			RH	.3449	20	1/8”	.05	Solid Seal	---
												3/8”-24	.3479					
REP4M6	-8	.2500	.938	.593	.438	.345	1.875	2.344	1.125			RH	.3449	22	5/32”	.07	Plyo-Seal	---
												3/8”-24	.3479					
REP4ML6	-9	.2500	.938	.593	.438	.345	1.875	2.344	1.125			LH	.3449	22	5/32”	.07	Plyo-Seal	---
REP5M6	-10	.3125	1.25	.870	.686	.506	2.438	1.563	3/8-24			3/8”-24	.4050			.24		---
FEMALE THREAD - MS 21153																		
Precision series. Double row, ball, self-aligning. 10° permissible misalignment in either direction. These bearings are manufactured with an internal play of .0004 in. (.010mm) max. Inner and outer raceway surface finish = 8 micro in. AA max. Equipped with PTFE seals. Exposed surfaces except bore, cap, and seals are cadmium plated. Outer shank – 90,000 psi min. tensile strength. Prelubricated (refer to nomenclature page)																		
												1/4”-28	.2298					
REPB3N*	-1	.1900	.781	.437	.328	.281	1.375	1.766	.750	.438	.375	RH	.2268	20	1/8”	.05	Plyo-Seal	---
												5/16”-24	.2884					
REPB3N2***	-2	.1900	.781	.437	.328	.281	1.375	1.766	.750	.438	.438	RH	.2854	20	1/8”	.06	Plyo-Seal	---
												1/4”-28						
REP3F4	-3	.1900	.781	.500	.328	.281	1.375	1.766	.750	.438	.375	RH	.2268	20	1/8”	.06	Solid Seal	---
												5/16”-24	.2884					
REP4F5	-6	.2500	.938	.593	.438	.345	1.469	1.938	.750	.438	.438	RH	.2854	22	5/32”	.07	Plyo-Seal	---
HOLLOW SHANK - MS 21152																		
REP3H5**	-1	.1900	.781	.437	.328	.281	1.375	1.766	.875		.435		.272	20	1/8”	.06	Plyo-Seal	---
RE4H6																	Solid Seal	---
REP4H6	-2	.2500	.938	.593	.438	.345	1.875	2.344	1.219		.625		.386	22	5/32”	.12	Plyo-Seal	---
REP4H8	-3	.2500	.938	.593	.438	.345	1.625	2.093	.875		.625	33/64	.515	22	5/32”	.08	Plyo-Seal	---
SOLID SHANK MS21150																		
REP3S7	-1	.19	.791	.437	.328	.281	1375				.430		SOLID	22	5/32”	.07	Plyo-Seal	---
REP4S10	-2	.2500	.938	.593	.438	.345	1.875	2.344			.625		SOLID	22	5/32”	.16	Plyo-Seal	---

***Dimensionally Same as Heim F34-14**
****Dimensionally Same as Heim F31-14**
*****Dimensionally Same as Heim F35-14**

Bearings with the letter “P” in part number are new manufacture, with Plyoseals.
Bearings without the letter “P” in part number are new surplus, with solid metal seals.

KP SERIES—AN200 / MS27640

Single row, ball, heavy duty. PTFE seals and CRES sealcaps. Exposed surfaces except bore, caps, and seals are cadmium plated. Prelubricated for life. Also offered with CRES 440C material and/or zinc nickel plating per OEM specifications



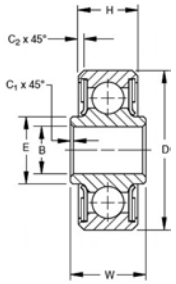
FAFNIR ANDMS AFBMA Bearing No.	Bore 27640	B	D	W	H	A	E	C	Balls		Pure Moment Rating	Moment Constant 1 Lbs.	Weight Lbs. Inch (Approx.)	Price Each
		Dia + .0000 - .0005 (in.)	Outside Inner Ring +.0000 -.0005 (in.)	Width Outer Ring +.000 -.005 (in.)	Width Inner +.000 - .005 (in.)	Shoulder Width Bore Ring (Approx.) (in.)	Corner Chamfer x 45° Inner Ring O. D. + .015 - .000 (in.)	Corner Chamfer x 45° Outer Ring +.015 - .000 (in.)	No.	Size	Inch			
KP3L*	-3A	.1900	.6250	.245	.203	.280	.005	.010	10	5/32”	51.8	12.08	.01	---
KP3	-3	.1900	.7774	.297	.270	.331	.005	.022	12	5/32”	93.7	10.13	.03	---
	-4	.2500	.9014	.484	.335	.390	.005	.032	11	1/4”	130	8.84	.04	---
KP5	-5	.3125	1.2500	.558	.375	.469	.015	.032	9	5/16”	335	6.77	.09	---
KP6	-6	.3750	1.4375	.620	.469	.591	.015	.032	10	11/32”	580	5.44	.15	---
KP8	-8	.5000	1.6875	.620	.500	.768	.015	.044	10	11/32”	1060	4.46	.21	---

*** Stainless steel shield (for “Plya-Seals” use KP3A which has same bore and O.D.) Equiv. Thrust Load = Thrust + .8 Radial Load + Moment Constant x Moment in Inch Lbs.**

KP-A SERIES—AN201 / MS27641

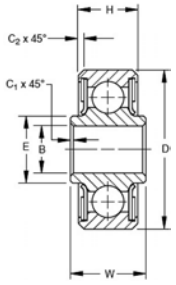
Single row, ball, deep groove, medium duty. PTFE seals and CRES sealcaps. Exposed surfaces except bore, caps, and seals are cadmium plated. Prelubricated for life. Also offered with CRES 440C material and/or zinc nickel plating per OEM specifications

AP



FAFNIR AND MS AFBMA Bearing No.	Bore 27641	B	D	W	H	A	E	C	Balls		Max Static Non-Brinell Rating		Pure Moment Rating Inch-Lbs.	Moment Constant 1 Inch	Weight Lbs. (Approx.)	Price Each
		Dia. + .0000 - .0005 (in.)	Outside Inner Ring +.0000 -.0005 (in.)	Width Outer Ring +.000 -.005 (in.)	Width Inner +.000 - .005 (in.)	Shoulder Dia. Bore Ring (Approx.) (in.)	Corner Chamfer x 45° Inner Ring O.D. +.015 -.000 (in.)	Corner Chamfer x 45° Outer Ring +.015 -.000 (in.)	No.	Size	Radial Lbs.	Thrust Lbs.				
KP3A	3	.1900	.6250	.297	.234	.297	.005	.016	10	1/8”	800	600	51.8	12.08	.01	---
KP4A	4	.2500	.7500	.281	.219	.380	.005	.016	12	1/8”	1100	900	73.8	10.17	.02	---
KP5A	5	.3125	.8125	.297	.234	.415	.015	.016	14	1/8”	1300	1000	100	8.76	.02	---
KP6A	6	.3750	.8750	.313	.250	.495	.015	.016	16	1/8”	1400	1100	130	7.68	.03	---
KP8A	8	.5000	1.1250	.375	.313	.616	.015	.016	16	5/32”	2200	1700	250	6.14	.05	---

KS SERIES— MS27645

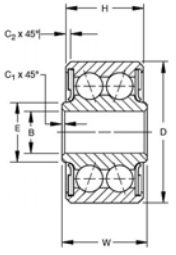


FAFNIR AND MS AFBMA Bearing No.	Bore 27645	B	D	W	H	A	E	C	F	Balls		Maximum Static Rating		Weight Lbs. (Approx.)	Price Each
		Dia. + .0000 - .0005 (in.)	Outside Inner Ring +.0000 -.0005 (in.)	Width Outer Ring +.000 -.005 (in.)	Width Inner +.000 - .005 (in.)	Shoulder Width Bore Ring (Approx.) (in.)	Corner Chamfer x 45° Inner Ring O.D. +.015 -.000 (in.)	Corner Chamfer x 45° Outer Ring +.015 -.000 (in.)	(Approx.)	No.	Size	Radial Lbs.	Thrust Lbs.		
KSP3L	3A	.1900	.6250	.245	.203	.257	.005	.016	---	13	3/32”	400	100	.01	---
KSP3	3	.1900	.7774	.297	.270	.342	.005	.022	.275	12	1/8”	800	200	.03	---
KSP4	4	.2500	.9014	.484	.335	.400	.005	.032	.408	12	5/32”	1100	300	.04	---
KSP5	5	.3125	1.2500	.558	.375	.562	.015	.032	.408	13	3/16”	1400	300	.10	---
KP6	6	.3750	1.438	.62	.469	.591	.015	.032	---	10	11/32”	2980	400	.15	---
*KS6A	6A	.3750	.8750	.313	.250	.475	.016	.016	.277	15	1/8”	1000	200	.03	---

*** NOTE: These bearings are self-aligning for 10° in either direction except for KS6A (not AN200) which is self-aligning for 8° in either direction.**

DP SERIES—AN207 / MS27644

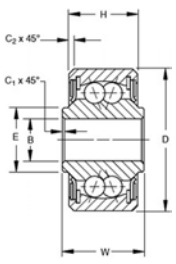
Double row, ball, light and heavy duty. PTFE seals and CRES sealcaps. Exposed surfaces except bore, caps and seals are cadmium plated. Prelubricated for life. For use where high moment rigidity is required, DPP-W series only. Also offered with CRES 440C material and/or zinc nickel plating per OEM specifications



FAFNIR Bearing No.	MS 27644	B	D	W	H	A	E	C	Balls		Maximum Static Non-Brinell		Weight Lbs. (Approx.)	Price Each
		Bore +.0000 -.0005 (in.)	Dia. +.0000 -.005 (in.)	Outside Inner Ring +.000 -.005 (in.)	Width Outer Ring +.000 (Approx) (in.)	Shoulder Width Inner Ring (Approx.) (in.)	Corner Chamfer x 45° Dia. Bore +.015 -.000 (in.)	Corner Chamfer x 45° Inner Ring O. D. +.015 -.000 (in.)	No.	Size	Radial Lbs.	Thrust Lbs.		
DPP3	-3	.1900	.7774	.495	.473	.302	.005	.02	20	5/32”	2500	1700	.04	---
DPP4	-4	.2500	.9014	.620	.491	.410	.005	.032	22	5/32”	3000	1800	.06	---
DPP5	-5	.3125	1.2500	.745	.687	.469	.015	.032	20	1/4”	6900	4200	.17	---

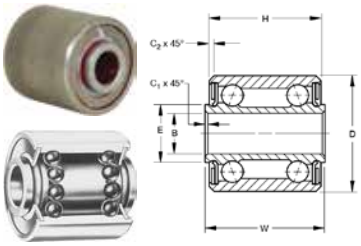
DSP SERIES—AN206 / MS27643

Double row, ball, self-aligning, heavy duty. PTFE seals and CRES sealcaps. Exposed surfaces except bore, caps, and seals are cadmium plated. Prelubricated for life. Also offered with CRES 440C material and/or zinc nickel plating per OEM specifications



FAFNIR Bearing No.	MS 27643	B	D	W	H	A	E	C	Balls		Maximum Static Non-Brinell		Weight Lbs. (Approx.)	Price Each
		Bore +.0000 -.0005 (in.)	Dia. +.0000 -.005 (in.)	Outside Inner Ring +.000 -.005 (in.)	Width Outer Ring +.000 (Approx.) (in.)	Shoulder Width Inner Ring (Approx.) (in.)	Corner Chamfer x 45° Dia. Bore +.015 -.000 In.	Corner Chamfer x 45° Inner Ring O. D. +.015 -.000 In.	No.	Size	Radial Lbs.	Thrust Lbs.		
DSP3	-3	.1900	.7774	.500	.392	.304	.005	.022	24	1/8”	1420	200	.04	---
DSP4	-4	.2500	.9014	.687	.464	.430	.005	.032	30	1/8”	1780	300	.06	---
DSP5	-5	.3125	1.2500	.812	.656	.515	.015	.032	28	3/16”	3740	600	.16	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.



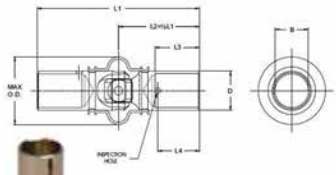
DW SERIES BEARINGS (MS 27647)

- Extra Wide, Double Row, Ball
- Equipped with removable Plya-Seals
- Dimensionally interchangeable with the DW series, the GDW series is lubricatable through holes and a groove in the outer ring.

FAFNIR AND MS AFB MA Bearing No.	Bore 27647	B Diameter +.0000 - .0005 Inches	D Outside Inner Ring +.0000 -.0005 Inches	W Width Outer Ring +.000 -.005 Inches	H Width Inner +.000 - .005 Inches	A Shoulder Width Bore Ring (Approx.) Inches	E Corner Chamfer x 45° Inner Ring O.D. +.015 -.000 Inches	C Corner Chamfer x 45° Outer Ring +.015 - .000 Inches	Balls No.	Balls Size	Pure Moment Rating Inch-Lbs.	Moment Constant 1 Inch	Weight Pounds (Approx.)	Price Each
† DW4K2*	-4A	.2500	.6250	.562	.500	.344	.016	.016	16	3/32”	121	3.49	.025	---
DW4K*	-4	.2500	.7500	.875	.750	.435	.005	.016	14	9/64”	365	2.27	.04	---
DW5	-5	.3125	.8750	.9375	.8125	.472	.005	.016	26	9/64”	830	1.85	.07	---
DW6	-6	.3750	1.0625	1.1875	1.0625	.576	.005	.016	24	3/16”	1830	1.38	.12	---
DW8	-8	.5000	1.4375	1.5000	1.3750	.715	.005	.032	22	17/64”	4330	1.07	.29	---

EQUIVALENT THRUST LOAD = THRUST + .6 RADIAL LOAD + MOMENT CONSTANT x MOMENT IN INCH-LBS.
***Bearing stamped DW4K. †Bearing stamped DW4K2.**
These bearings are not to be used as track rollers, cam follower rolls and the like.
*** RETAINER TYPE**

AP



MS20271 UNIVERSAL JOINTS

Complete universal joint line includes a full range of military certified MS20271 and continually tested universal joints used in defense vehicles, aerospace applications, as well as shift/gear change linkage in specialty vehicles.

Meets or exceeds military specification MIL-J-6193

Part No.	ID (in.)	Price Ea
MS20271-B8	3/8	---
MS20271-B10	1/2	---
MS20271-B12	5/8	---
MS20271-B14	3/4	---

Dash #	+.000, -.002 (+.000, -.051) Outside Dia.		+/-.015 (+/-.381) Overall Length		+.031,-.000 (-.787,-.000) Bore Depth		+.004,-.025 (+.102, -.025) Bore Dia.		+/-.015 (+/-.381) Insp. Hole Loc.		Max Dia. (+.102,-.025) Cover Dia.		Weight Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg.
B8	.495	12.57	2.625	66.67	.625	15.88	.375	9.52	.562	14.27	1.031	26.19	.09	.041
B10	.620	15.75	2.750	69.85	.750	19.05	.500	12.70	.687	17.45	1.156	29.36	.18	.082
B12	.745	18.92	3.187	80.95	.875	22.22	.625	15.88	.812	20.62	1.437	36.50	.24	.109
B14	.870	22.10	3.625	92.07	1.00	25.40	.750	19.05	.937	23.80	1.562	39.67	.35	.159

***Five hour test at 15° angle.**

TORSIONAL OVERLOADS

AXIAL OVERLOADS

Temporary torsional overloads as great as 80% of rated ultimate have been handled by these universal joints without harmful binding.

Temporary axial overloads ranging up to 150% in excess of rated ultimates have been imposed without binding. These characteristics insure high safety factors under the most difficult operating conditions.

H-9426 BALL JOINT

* Hex: 1/2 Inch *Thread: 5/16-18 *Ball: 10 mm
P/N 06-00675..... ---

P/N 05-07600

BALL JOINT ASSEMBLIES

COMMERCIAL

Ball Joint Style	Female End	Male End	Part No.	Price
Is similar to AN276-6. Experimental Only	1/4-28	1/4-28	05-07300	---
Commercial	10-32	1/4-28	05-07400	---
Commercial	10-32	10-32	05-07500	---
Commercial	1/4-28	1/4-28	05-07600	---

LUBRICAPS

These bright red Lubricaps are made of molded rubber and are used as grease fitting covers. The internal lip holds the cap in place and keeps out dirt, sand, and fluids.
M-24529 **(20% discount for 100/each)**
P/N 04-01940 ..... ---

BELLCRANK BEARINGS

Part No.	Bore	Flange Dia.	Race Width	Price Each
BC4W10 (AN218-4) Experimental Only	1/4”	1-5/8”	5/8”	---
BC5W11	5/16”	1-11/16”	5/8”	---

***Military P/N AN218P4 / MS20218-1. Certs Available.**
All bearings inspected per MIL-I45208A. 100% traceable. Currently installed on new and rebuilt certified aircraft.Prepacked with lubricant conforming to MIL-G-23827

Quantity discount quoted on request

SINGLE-ROW TAPERED ROLLER BEARINGS

The most basic and widely used tapered bearing, the single-row type consists of the cone assembly and the cup. It is usually fitted as one of an opposing pair. During equipment assembly, single-row bearings can be set to the required clearance (endplay) or preload condition to optimize performance. Single-row tapered roller bearings have positive roller alignment that ensures true rolling motion and generates a “seating force” that pushes the roller against the cone large rib. This seating force prevents the rollers from skewing off apex, thereby keeping them positively aligned and located against the cone large rib.
P/N 05-29749 ..... ---

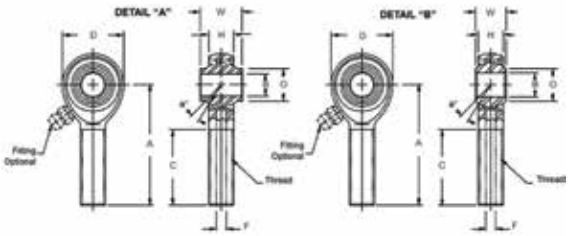
BRONZE BUSHINGS SS-610-8

Cast Bronze bearings fit a wide range of applications.
Key Benefits:
High Strength, Excellent Machinability
P/N 04-01937 ..... ---

HEIM ROD ENDS MALE THREADED M AND HM SERIES

Rod Ends male threaded (HM M Series)

• Outer Member: Aircraft Quality Carbon Steel, Magnetic particle inspected, with protective coating for corrosion resistance. • Ball: 52100 Alloy Steel, heat treated, chrome plated. • Inserts: Brass, 16 size has one piece carbon steel race.



Heim "M" and "MD" series bearings are now manufactured in magnafluxed version only. As old stock is depleted, magnafluxed equivalents will be furnished as substitutes at current (higher) prices unless otherwise requested on the order.

"L" in rod end number designates left hand thread. In this series, the "D" in rod end number (MD35 14) denotes drilled hole in the shank. Add suffix "G" to indicate lubricator is required. Example: HM-SG. Add suffix "FG" lo indicate flush type lubricator is required. Example: M34-14FG. Lubricator (G) (FG) available with minimum qty. required. Please Call for Pricing.

Rod End No.	Equiv. Spherco No.	DIMENSIONS											Max Static Radial Load in Pounds Aprox.	Approx. Weight in Pounds	Price Each
		Bore	Ball Width	Housing Width	Ball Flat Diam.	Head Diam.	Length to center of ball	Overall Length	Other Dimensions						
		B	W	H	O	D	F	G	A	N	Ball Diam.	M			
		+.0015 -.0005	+.000 -.005	+.005 -.005		+.010 -.010	+.010 -.010	+.010 -.010	Min	Drill Diam.		Class 3A			
M34-14M	NONE	.1900	.437	.328	.273	.750	1.560	1.935	1.000		33/64	1/4"-28	1,695	.05	---
MD35-14M	NONE	.1900	.437	.328	.273	.875	1.375	1.812	.750	#33	33/64	5/16"-24	2,184	.07	---
MDL35-14M										.113		UNF			---
MD36-14M	NONE	.1900	.437	.328	.273	.750	1.375	1.750	.750	#33	33/64	3/8"-24	2,848	.07	---
MDL36-14M										.113		UNF			---
MD36-16M	NONE	.1900	.500	.375	.321	.812	1.812	2.219	1.062	#29	19/32	3/8"-24	2,769	.08	---
MDL36-16										.136		UNF			---
M44-14	NONE	.2500	.437	.304	.354	.812	1.562	1.968	1.000		9/16	1/4"-28	1,695	.06	---
ML44-14												UNF			---
MD46-15	NONE	.2500	.484	.335	.395	.875	2.312	2.750	1.500	#29	5/8	3/8"-24	3,151	.10	---
MDL46-16										.159		UNF			---
HM-2M	NONE	.1250	.250	.187	.187	.469	.937	1.172	.500		5/16	6-32	452	.02	---
HM-2AM	NONE	.1562	.281	.219	.249	.562	1.125	1.406	.625		3/8	8-32	666	.02	---
HML-2AM												UNC			---
HM-3M	TRE-3	.1900	.312	.250	.306	.625	1.250	1.563	.750		7/16	10-32	910	.03	---
HML-3M	TREL-3											UNF			---
HM-4M	TRE-4	.2500	.375	.281	.355	.750	1.562	1.937	1.000		33/64	1/4"-28	1,695	.05	---
HML-4M	TREL-4											UNF			---
HM-5M	TRE-5	.3125	.437	.344	.447	.875	1.875	2.312	1.250	#33	5/8	5/16"-24	2,205	.08	---
HM-6M	TRE-6	.3750	.500	.406	.517	1.000	1.938	2.438	1.250	#21	23/32	3/8"-24	3,172	.11	---
HML-6M	TREL-6									.159		UNF			---
HM-7M	TRE-7	.4375	.562	.437	.586	1.125	2.125	2.688	1.375	#21	13/16	7/16"-20	4,633	.16	---
HML-7M	TREL-7									.159		UNF			---
HM-8M	TRE-8	.5000	.625	.500	.698	1.312	2.438	3.094	1.500	#3	15/16	1/2"-20	5,876	.24	---
HML-8M	TREL-8									.213		UNF			---
UNF= Universal Fine, UN=Universal Coarse															

10650-3

10650-4

10650-5

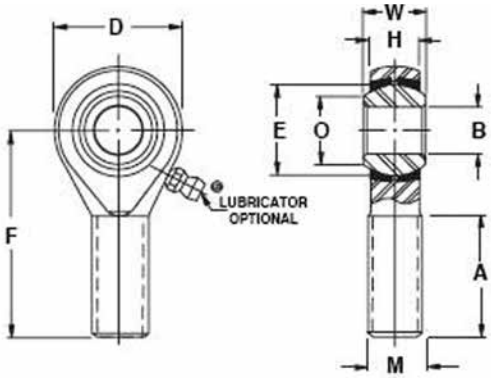
10650-6

ACS BEARING REGREASERS

The ACS bearing regreasers restore bearings, rod ends and pulleys to like-new condition. O-ring in base of regreaser provides positive seal when bearing is secured by the threaded center post. Grease, entering under pressure at the grease fitting, is forced to flow through the bearing, flushing out the old grease and dirt, and recharging the bearing with fresh grease.
Available in five sizes.
Non-Anodized
Made in USA

Bearing Regreaser No.	Part No.	Bearing Size		Price Each
		O.D.	Bore	
3	10650-3	3/4"	3/16"	---
4	10650-4	1"	1/4"	---
5	10650-5	1-1/4"	5/16"	---
6	10650-6	1-1/2"	3/8"	---
8	10650-8	1-1/2"	1/2"	---
Complete Set of Five - P/N 12-11500				---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.



ROD END MALE THREADED
HMX EXTRA CAPACITY SERIES

SPECIFICATIONS:

Outer Member: SAE 4130 steel heat treated to 175,000 PSI Cadmium Plated.

Ball: SAE 52100 Steel, Heat Treated, Chrome Plated.

Inserts: Aluminum Bronze

"L" in rod end number designates left hand thread.
Add letter 'M' to dash number for magnafluxed rod ends.
This series is equipped with lubricators as shown.
Add suffix "FG" to indicate flush type lubricator is required.
Example: HMX-4FG. Additional costs will apply.
Note: See Aurora Bearings page for equivalents to Heim HM & HF Series.

Rod End Number	Equiv. Spherco Number	DIMENSIONS											Maximum Static Load in Lbs. approx		Approx. Weight in Lbs.	Price Ea.
		Bore	Ball Width	Housing Width	Ball Flat Dia.	Head Dia.	Length to Center of Ball	Over-All Length	Other Dimensions							
		B	W	H	O	D	F	G	A	N		M				
		+.0015 -.0005	+.000 -.005	+.005 -.005		+.010 -.010	+.010 -.010	+.010 -.010	Min.	Drill Dia.	Ball Dia.	Class 3A	Radial	Axial		
HMX-4G	ARE 4-20	.2500	.375	.281	.355	.750	1.560	1.937	1.000	#33	33/64	5/16"-24	3,260	1,710	.06	---
HMXL-4G	AREL-20									.113		UNF				---
HMX-5G	ARE- 5-20	.3125	.437	.344	.447	.875	1.375	2.312	1.250	#21	5/8	3/8"-24	4,920	2,376	.09	---
												UNF				
HMX-6G	ARE 6-20	.3750	.500	.406	.517	1.000	1.375	2.438	1.250	#21	23/32	7/16"-20	7,240	2,946	.13	---
HMX-7G	ARE 7-20	.4375	.562	.437	.586	1.125	1.812	2.688	1.375	#21	13/16	1/2"-20	7,620	3,367	.18	---
HMXL-7G	AREL 7-20									.159		UNF				---
HMX-8G	ARE 8-20	.5000	.625	.500	.698	1.312	1.562	3.094	1.500	#3	15/16	5/8"-18	11,920	4,074	.30	---
HMXL-8G	AREL 8-20									.213		UNF				---

New Surplus HMX-8G .....P/N 06-01661 .....---

GREASE FITTINGS

Surface Check fittings of the MS15000 series have spring-loaded ball check in the tip. Conform to MIL-F-3541.

MS15001-1

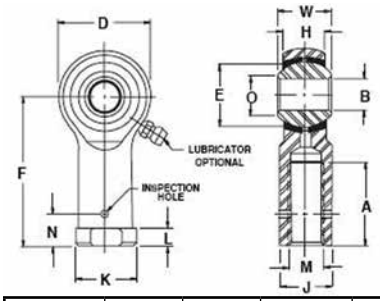
MS15001-4

MS15003-5

AS15002-1P

MS Number	AS Number	Price	Surplus Number	Price	Thread	Shank L	Eff. Thread L	Overall L	Tip Angle
MS15001-1	AS15001-1P	---	---	---	1/4-28 Tapered	3/16"	.109	1/2"	0°
MS15001-2	AS15001-2P	---	04-02326	---	1/4-28 Tapered	5/8"	.20	31/32"	0°
MS15001-3	AS15001-3P	---	04-02327	---	1/4-28 Tapered	13/64"	.11	13/16"	45°
MS15001-4	AS15001-4P	---	04-02313	---	1/4-28 Tapered	3/16"	.109	1/2"	90°
MS15002-1	AS15002-1P	---	04-02328	---	1/4-28 Tapered	5/32"	.07	33/64"	0°
MS15002-3	AS15002-3P	---	---	---	1/4-28 Tapered	1/8"	.07	39/64"	45°
MS15003-1	AS15003-1P	---	04-02330	---	1/8 NPT	19/64"	.19	11/16"	0°
MS15003-2	AS15003-2P	---	04-02331	---	1/8 NPT	25/32"	.19	1-1/4"	0°
MS15003-3	AS15003-3P	---	04-02332	---	1/8 NPT	19/64"	.19	29/32"	30°
MS15003-4	AS15003-4P	---	04-02333	---	1/8 NPT	19/64"	.19	57/642"	45°
MS15003-5	AS15003-5P	---	04-02315	---	1/8 NPT	9/32"	.188	31/32"	65°
MS15003-6	AS15003-6P	---	04-02314	---	1/8 NPT	9/32"	.188	15/16"	90°

ROD ENDS FEMALE THREADED (F & HF SERIES)



SPECIFICATIONS:

Outer Member: Aircraft Quality Steel, Cadmium Plated.

Ball: SAE 52100 Steel.

Inserts: Naval Bronze

"L" in rod end number designates left hand thread. Add suffix "G" to indicate lubricator is required. Example: F35-14G. Add suffix "FG" lo indicate flush type lubricator is required. Example: HF-4FG. Add $3.00 to price for lubricator (G) (FG).

Note: Standard Bearings Furnished Without Inspection Hole. If Hole Needed, Add "M" to P/N & At Higher Cost.

Part No.	Bore	Ball Width	Housing Width	Head Dia.	Length to ctr. of ball	Thread Length	Thread Size	Ball Dia.	Ball Flat Dia.	Other Dimensions			Max Rad. Load	Weight	Price
	B	W	H	D	F	A	M	E	O	K	N	L			
	+.0015 -.0005	+.000 -.005	+.005 -.005	+.010 -.010	+.010 -.010	+.062 -.031	UNF-3B	REF	REF	+.010 -.010	+.020 -.020	+.010 -.010			
FL34-14M	.1900	.437	.328	.750	1.375	.750	.2500-28	.515	.273	.468	.312	.187	2850	.06	---
F34-14M	.1900	.437	.328	.750	1.375	.750	.2500-28	.515	.273	.468	.312	.187	2850	.06	---
F347-14M	.1900	.437	.328	.750	1.062	.437	.2500-28	.515	.273	.375	-	-	2850	.05	---
F34-16G	.1900	.437	.375	.812	1.375	.750	.2500-28	.593	.321	.468	.312	.187	2750	.08	---
F34-16M	.1900	.500	.375	.812	1.375	.750	.2500-28	.593	.321	.468	.312	.187	2750	.08	---
F35-14M	.1900	.437	.328	.750	1.375	.750	.3125-24	.515	.0273	.500	.406	.187	2850	.07	---
FL35-14M	.1900	.437	.328	.750	1.375	.750	.3125-24	.515	.273	.500	.406	.187	2850	.07	---
F44-14M	.2500	.437	.304	.812	1.375	.750	.2500-28	.562	.354	.468	.312	.187	2850	.07	---
FL44-14M	.2500	.437	.304	.812	1.375	.750	.2500-28	.562	.354	.468	.312	.187	2850	.07	---
F45-19M	.250	.593	.438	.938	1.469	.750	.3125-24	.687	.347	.500	.406	.187	3700	.11	---
HF-3M	.1900	.312	.250	.625	1.062	.562	.1900-32	.437	.306	.406	-	.187	1850	.03	---
HFL-3M	.1900	.312	.250	.625	1.062	.562	.1900-32	.437	.306	.406	-	.187	1850	.03	---
HF-4M	.2500	.375	.281	.750	1.312	.750	.2500-28	.515	.353	.468.	-	.187	2700	.05	---
HFL-4M	.2500	.375	.281	.750	1.312	.750	.2500-28	.515	.353	.468.	-	.187	2700	.05	---
HF-5M	.3125	.437	.344	.875	1.375	.750	.3125-24	.625	.447	.500	-	.187	3350	.08	---
HFL-5M	.3125	.437	.344	.875	1.375	.750	.3125-24	.625	.447	.500	-	.187	3350	.08	---
HFL-2A	.1562	.281	.219	.562	.875	.375	.1640-32	-	.249	-	-	-	1700	.02	---

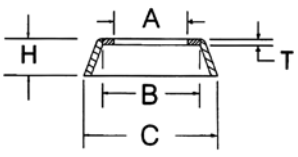
New Surplus HFL-3M Bearing.....P/N 04-03454.....---
New Surplus HFX-5G Bearing.....P/N 04-03452.....---
New Surplus HFX-8G Bearing.....P/N 04-03453.....---

***F34-14 Dimensionally the same as Fafnir REPB3N. **F35-14 Dimensionally the same as Fafnir REPB3N2**

SEALS-IT ROD END SEALS

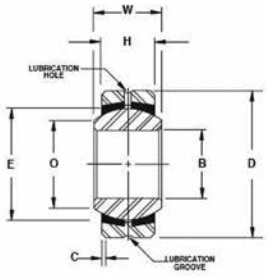
Protect the spherical bearing of rod ends. This patented design features a neoprene rubber seal bonded directly to an aircraft quality washer. The seal encapsulates the bearing and flexes accordingly with any change in angularity. This provides unprecedented protection from dirt and other types of contamination which may severely shorten the life of these important components.

The rubber is engineered for wide range of temperature variation and is impervious to gasoline, oils, and most other common fluids. The steel washer is plated for protection from corrosion.



Size	A	B	C	H	T	Part No.	Price
3/16	.200	.326	.442	.096	.020	05-01434	---
1/4	.257	.375	.565	.125	.025	05-2500	---
5/16	.325	.450	.710	.200	.047	05-3125	---
3/8	.386	.525	.775	.220	.047	05-3750	---
7/16	.445	.610	.910	.250	.047	05-4375	---
1/2	.515	.710	1.125	.250	.047	05-5001	---
5/8	.638	.900	1.250	.250	.047	05-6250	---
3/4	.763	1.00	1.375	.375	.047	05-7500	---

SPHERICAL BEARINGS
SERIES LS, LSS, LHA



SPECIFICATIONS:

LS SERIES

Outer Member: Carbon Steel, with protective coating for corrosion resistance on all surfaces exposed after installation.
Ball: SAE 52100 Steel, Heat Treated.
Inserts: Brass.

LSS SERIES

Outer Member: 4130 or 4340 Alloy steel, heat treated, with protective coating for corrosion resistance on all surfaces exposed after installation.
Ball: 52100 Alloy steel, heat treated, chrome plated.
Inserts: Copper alloy

LHA SERIES

Outer Member: 4130 or 4340 Alloy steel, heat treated, with protective coating for corrosion resistance on all surfaces exposed after installation.
Ball: 52100 Alloy steel, heat treated, chrome plated.

Spherical Bearing No.	Dimensions							Max Static Radial load In Pounds Approx.	Approx. Weight in Pounds	Price Each
	Bore	Outside Diameter	Ball Width	Housing Width	Chamfer	Ball Diameter	Ball Flat Diameter			
	B +.0000 -.0005	D +.0000 -.0005	W +.000 -.005	H +.000 -.005	C +.000 -.005	E REF	O REF			
LS-3	.1900	.6250	.281	.187	.016	.406	.293	2960	.02	---
LS-4	.2500	.7500	.375	.281	.016	.515	.354	5245	.04	---
LS-5	.3125	.8750	.437	.313	.016	.625	.447	6550	.05	---
LS-6	.3750	1.0000	.500	.375	.016	.718	.517	8605	.08	---
LS-8	.5000	1.3125	.687	.531	.044	.937	.637	15600	.18	---
LSS-2	.1650	.4687	.250	.187	.235	.020	11/32	2,000	.01	---
LSS-3	.1900	.5625	.281	.218	.020	.406	.293	2750	.02	---
LSS-4	.2500	.6562	.343	.250	.022	.500	.364	4200	.02	---
LSS-5	.3125	.7500	.375	.281	.022	.562	.419	5800	.03	---
LHA-2	.1650	.4687	.250	.187	.020	.343	.235	4400	.01	---
LHA-4	.2500	.6562	.343	.250	.022	.500	.364	10000	.02	---
LHA-6	.3750	.8125	.406	.312	.032	.625	.475	18750	.04	---
LHA-8	.5000	1.000	.500	.390	.600	.032	25/32	26,900	.07	---

The allowable static axial loads are one-fourth of radial loads given above.

TIMKEN WHEEL BEARINGS

Part No.	Description	Price
04-02054	Bearing Cup 13830	---
04-02055	Bearing Cup LM29710	---
04-02164	Bearing Cone 07100	---
04-02165	Bearing Cup 07196	---
04-02166	Bearing Cup LL217810	---
04-02167	Bearing LL217849	---
04-02168	Bearing Cup LM67010	---
04-02169	Bearing Cone LM67048	---
04-02231	Bearing 19150	---
05-29749	Bearing LM29749	---
06-00607	Bearing A2126	---
06-00642	Cup / Race LM11910	---
06-03300	Azusa 6" Alum. Timken Bearing	---
04-03400	Azusa 6" Alum. 3/4 Timken Bearing	---
06-04699	Bearing 08125-20629	---
8231	Bearing Cup 08231	---
13286	Bearing Cone A-4050	---
13889	Bearing 13889	---
04-02231	Bearing 19150-20629	---
06-00641	Bearing LM11900LA-902A1	---

SYMMCO BEARINGS

Sintered Bronze Oil-Impregnated Special Flanged Bearings.

Description	Length	Symmco No.	Part No.	Price
SF610-3 Bushing	3/16	SF-610-3	04-00098	---
SF-610-8 Bearing	1/2	SF-610-8	04-01570	---
SF-610-8 Bearing	3/8	SF-1014-6	05-1014-6	---
SF-812-3 Bearing	3/8	SF-812-3	05-03569	---
SF-2024-8 Bearing	1/2	SF-2024-8	04-00004	---
SF-4084-20 Bearing	1-1/4	SF-4048-20	04-00159	---
SF-4084-8 Bearing	1/2	SF-4048-8	04-02171	---

PIPER BEARING ROD END CA452-382

Piper Bearing - Rod End CA452-382. Internal Thread: 1/2-20. Bore/Eye: .50".

SEE WEBSITE FOR THE ELIGIBLE AIRCRAFT LIST

P/N 05-28836 .....---

AP

AURORA BEARINGS

In 1971 Aurora Bearing Company entered the rod end and spherical bearing market and soon became a major force in the rod end industry. Over the years, Aurora Bearing has retained its original business philosophy of furnishing a quality product at competitive prices and with service much faster than the competition. Aurora offers a complete line of standard and spherical bearings. In addition, special bearings can be designed and manufactured on request. Listed below are many of the most popular Heim bearing part numbers and the equivalent Aurora Bearing part number. On many of these items, the Aurora bearing offers substantial savings and faster delivery time. Unlisted Aurora bearings, quantity discounts and complete Aurora Bearing Company brochure available on request.

The below specifications apply to most but not all Aurora bearings. Note: Bearings not furnished standard with grease fittings are available with grease fittings. Add suffix "Z".
AURORA EQUIVALENTS TO HEIM HM, HF, HMX, HFX, HMR, AND HFR SERIES

SPECIFICATIONS:

Body - Low carbon steel, cadmium or zinc plated at manufacturer's option, dichromate treated. No. 16 series standard body is 4130 steel, not heat treated.
Race - Low carbon steel, cadmium or zinc plated (manufacturer's option), chromate treated.
Ball - Allow steel, heat treated, hard chrome plated.

AURORA EQUIVALENTS TO HEIM HM & HF SERIES

MALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
MM-2	HM-2	---
MB-2	HML-2	---
MM-3	HM-3	---
MB-3	HML-3	---
MM-4	HM-4	---
MB-4	HML-4	---
MM-5	HM-5	---
MB-5	HML-5	---
MM-6	HM-6	---
MB-6	HML-6	---
MM-7	HM-7	---
MB-7	HML-7	---
MM-8	HM-8	---
MB-8	HML-8	---

FEMALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
MW-2	HF-2	---
MG-2	HFL-2	---
MW-3	HF-3	---
MG-3	-----	---
MW-4	HF-4	---
MG-4	HFL-4	---
MW-5	HF-5	---
MG-5	HFL-5	---
MW-6	HF-6	---
MG-6	HFL-6	---
MW-7	HF-7	---
MG-7	HFL-7	---
MW-8	HF-8	---
MG-8	HFL-8	---

AURORA EQUIVALENTS TO HEIM HMX & HFX SERIES

MALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
XAM-4Z	HMX-4G	---
XAB-4Z	HMXL-4G	---
XAM-5Z	HMX-5G	---
XAB-5Z	-----	---
XAM-6Z	HMX-6G	---
XAB-6Z	HMXL-6G	---
XAM-7Z	HMX-7G	---
XM-7G	HMX-7G	---
XAB-7Z	HMXL-7G	---
XAM-8Z	HMX-8G	---
XAB-8Z	HMXL-8G	---

FEMALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
AW-4Z	HFX-4G	---
AG-4Z	HFXL-4G	---
AW-5Z	HFX-5G	---
AG-5Z	HFXL-5G	---
AW-6Z	-----	---
AG-6Z	HFXL-6G	---
AW-7Z	HFX-7G	---
AG-7Z	HFXL-7G	---
AW-8Z	HFX-8G	---
AG-8Z	HFXL-8G	---

AURORA EQUIVALENTS TO HEIM HMR & HFR SERIES

MALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
MM-3T	HMR-3	---
MB-3T	HMRL-3	---
MM-4T	HMR-4	---
MB-4T	HMRL-4	---
MM-5T	HMR-5	---
MB-5T	HMRL-5	---
MM-6T	HMR-6	---
MB-6T	HMRL-6	---
MM-7T	HMR-7	---
MB-7T	HMRL-7	---
MM-8T	HMR-8	---
MB-8T	HMRL-8	---

FEMALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
MW-3T	HFR-3	---
MG-3T	HFRL-3	---
MW-4T	HFR-4	---
MG-4T	HFRL-4	---
MW-5T	HFR-5	---
MW-6T	HFR-6	---
MG-6T	HFRL-6	---
MW-7T	HFR-7	---
MG-7T	HFRL-7	---
MW-8T	HFR-8	---
MG-8T	HFRL-8	---

REFER TO HEIM BEARING CHART ON PREVIOUS PAGES FOR DIMENSIONS ON AURORA BEARINGS.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AURORA BEARINGS

AURORA EQUIVALENTS TO HEIM M, ML, MD, F, & FL SERIES

MALE			FEMALE		
Aurora P/N	Aurora Price	Heim Equivalent P/N	Aurora P/N	Aurora Price	Heim Equivalent P/N
GMM-3M-470	---	M34-14M	GMW-3M-470	---	F34-14M
GMB-3M-470	---	ML34-14M	GMG-3M-470	---	FL34-14M
GMM-3M-570	---	MD35-14M	GMW-3M-471	---	F347-14M
GMB-3M-570	---	MDL35-14M	GMG-3M-471	---	FL347-14M
GMM-3M-670	---	MD36-14M	GMW-3M-480	---	F34-16M
GMB-3M-670	---	MDL36-14M	GMG-3M-480	---	FL35-14M
GMM-3M-680	---	MD36-16M	GMW-4M-470	---	F44-14M
GMB-3M-680	---	MDL36-16M	GMG-4M-470	---	FL44-14M
GMM-4M-470	---	M44-14M	GMW-4M-595	---	F45-19M
GMB-4M-470	---	ML44-14M			
GMM-4M-675	---	MD46-15M			
GMM-4M-680	---	MD46-16M			
GMB-4M-680	---	MDL46-16M			

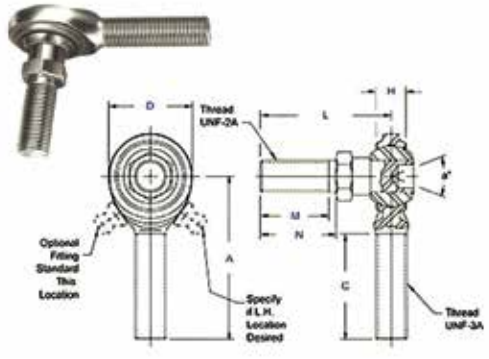
AURORA EQUIVALENTS TO HEIM HFE & HME SERIES

MALE			FEMALE		
Aurora P/N	Heim Equivalent P/N	Aurora Price	Aurora P/N	Heim Equivalent P/N	Aurora Price
MW-4TM-125	HFE-4	---	MM-4TM-125	HME-4	---
MG-4TM-125	HFEL-4	---	MB-4TM-125	HMLE-4	---
MW-5TM-125	HFE-5	---	MM-5TM-125	HME-5	---
MG-5TM-125	HFLE-5	---	MB-5TM-125	HMLE-5	---

AURORA EQUIVALENTS TO HEIM LS, LHA, & LSS SERIES

LCOM Series Large Size Spherical Bearings			COM Series Spherical Bearings			COM-KH Series Spherical Bearings		
Aurora P/N	Heim Equivalent P/N	Price	Aurora P/N	Heim Equivalent P/N	Price	Aurora P/N	Heim Equivalent P/N	Price
LCOM-3	LS-3	---	COM-3	LSS-3	---	COM-3KH	LHA-3	---
LCOM-4	LS-4	---	COM-5	LSS-5	---	COM-4KH	LHA-4	---
LCOM-5	LS-5	---	COM-6	LSS-6	---	COM-5KH	LHA-5	---
LCOM-6	LS-6	---	COM-7	LSS-7	---	COM-6KH	LHA-6	---
LCOM-7	LS-7	---	COM-9	LSS-9	---	COM-7KH	LHA-7	---
LCOM-8	LS-8	---	COM-14	LSS-14	---	COM-8KH	LHA-8	---
			COM-16	LSS-16	---	COM-10KH	LHA-10	---
						COM-12KH	LHA-12	---
						COM-14KH	LHA-14	---
						COM-16KH	LHA-16	---

AURORA CM-S & CB-S MALE ROD ENDS WITH STUDS



Rod End no.		Dimension in inches									
Right Hand	Left Hand	H Ref.	A ± .015	D Ref.	C +.062 –.031	L ± .015	N ± .010	M Ref.	Thread UNF-3A	a° Misalign Angle	Price Each
CM-3S*	CB-3S*	.234	1.250	.625	.750	1.000	.500	.437	10-32	50	---
CM-4S*	CB-4S*	.250	1.562	.750	1.000	1.031	.562	.500	1/4-28	50	---
CM-5S*	CB-5S*	.312	1.875	.875	1.250	1.219	.687	.593	5/16-24	50	---
CM-6S	CB-6S	.359	1.938	1.000	1.250	1.562	.906	.812	3/8-24	50	---
CM-7S	CB-7S	.406	2.125	1.125	1.375	1.750	1.062	.937	7/16-20	50	---
CM-10S	CB-10S	.484	2.625	1.500	1.625	2.500	1.500	1.375	5/8-18	50	---
CM-12S	CB-12S	.593	2.875	1.750	1.750	3.000	1.812	1.625	3/4-16	50	---

*** Grease fittings not available on these sizes. Units are supplied without grease fittings.**

AURORA CW-3B-14 BEARING

In 1971 Aurora Bearing Company entered the rod end and spherical bearing market and soon became a major force in the rod end industry. Over the years, Aurora Bearing has retained its original business philosophy of furnishing a quality product at competitive prices and with service much faster than the competition. Aurora offers a complete line of standard and spherical bearings. In addition, special bearings can be designed and manufactured on request. P/N 04-03824 ..... ---

AP

THROTTLES – CONTROLS

ACS CONTROLS

The ACS line of controls was manufactured by Aircraft Spruce and Specialty Company from 1980 to 1985. As of June, 1985 the controls have been manufactured by ACS Products Company in Lake Havasu City, Arizona. The manufacturing and inspection procedures have been approved by the FAA and original equipment manufacturers. The following engineering data will aid in properly identifying the control most suited to each individual requirement. Also shown are some available options for the controls such as plastic protective covering and steel sleeves for clamping the control to the aircraft structure. Made in the U.S.A.
The A-790-12 vernier mixture control and the A-800-12 friction-lock throttle control are approved for Cessna 172, 172A thru Q; Cessna 150, 150A thru M, A150K, A150L, A150M; Cessna 152, A152.
Other approvals pending. Order by Part Number and state Cessna model and serial number. A790-12 is 53" long. A800-12 length is based on serial number provided.

ENGINEERING DATA

Control Model No.	Control Type	Stroke at 0 Routing	Decrease in Stroke per 360° of Bend	Control Model No.	Control Type	Stroke at 0° Routing	Decrease fStroke per 360° of Bend
A-700	Button Lock (Wire End)	3.37"*	0.50"	A810	Friction Lock (1/4-28)	3.37"*	0.35"
A-730	Glide Free (Wire End)	3.37"*	0.50"	A920	Push-Pull (10-32)	3.37"	0.35"
A-740	Ratchet (Wire End)	3.37"*	0.50"	A930	Push-Pull (1/4-28)	3.50"	0.35"
A-750	Vernier (10-32)	3.37"*	0.35"	A970	Vernier (1/4-28)	3.37"*	0.35"
A-790	Vernier (Wire End)	3.37"*	0.35"	A1550	Push-Pull (10-32) with Bulkhead Fittings	3.37"	0.35"
A-800	Friction Lock (10-32)	3.37"*	0.35"				

***Length of exposed wire. **Recommended minimum bending radius for all controls is 5" (never less than 3")**

HOW TO ORDER CONTROLS

STOCK CONTROLS - All stock controls are identified by a part number as shown in the descriptions of the controls. To order a stock control, specify control type, knob color, length to nearest 1/8" (measured as described in text), and any added features such as PO cover on flexible casing or steel sleeves centered at specified distances from panel nut (lengths of stock controls are in whole-foot increments and only lengths listed are stocked). Include 7-digit part number as shown in text.

SPECIAL-LENGTH CONTROLS - If you require a special-length control, specify control type, knob color, length to nearest 1/8" and any added features such as PO cover, etc. Special-length controls carry a set-up charge in addition to the cost of the control (calculated as described in the texts).

CUSTOM CONTROLS - If you do not find the type of control you require in this catalog, send a detailed sketch with dimensions, or the old control as a sample, to Aircraft Spruce & Specialty Co., 225 Airport Circle, Corona, CA 92880-2527 (1-800-824-1930). Custom controls are priced like similar stock controls but with a $35 set-up and engineering charge added, plus costs for any special parts which must be fabricated for the control.

ADDITIONAL OPTIONS TO CONTROLS

- All ACS controls can be supplied with a black Polyolefin (PO) protective cover.
- Cadmium plated 2" long steel sleeves can be added to the casing to provide clamping points for securing the control to the aircraft structure. Specify sleeve location (measurement taken from under the panel nut to mid-point of sleeve). Sleeves are normally swaged to the casing but will be left unswaged when specified.
- Threaded steel sleeves ("bulkhead" fittings) can be added to the casing to provide secure clamping of the control where it passes through a bulkhead. The cadmium plated sleeves are 2" long, with 1-1/2" length of 7/16-20 threads. Specify sleeve location (measurement taken from under the panel nut to mid-point of sleeve). Sleeves are normally swaged to the casing but will be left unswaged when specified.

VERNIER CONTROLS

Vernier controls assure smooth operation - cannot creep. For coarse adjustment, depress center button and push or pull. For fine adjustment, turn knob. Smooth acting at all temperatures. Casing is made of tightly wound galvanized steel wire. Inner shaft is stainless steel cable (Models A-750 and A-970) or stainless steel wire (Model A-790). Low-friction operation is provided by an internal extruded Teflon liner. Controls have 1-1/4" dia. plastic knob with 3/4" dia. aluminum release button. A protective black PVC cover is available as an option on controls. Choice of knob color - black, red or blue (FAA Color Code: Black - Throttle, Red - Mixture, Blue - Prop), and knob design (see below).
The FAA has recently adopted a standard configuration for cockpit control knobs in production aircraft type-certificated after August 11, 1986. The red mixture knob is to have six raised ridges whereas the blue prop control is to have the opposite profile with six grooves. The black throttle control knob is to have a smooth profile. The different knob contours assure positive identification by touch.

Aircraft Spruce is proud to offer the ACS line of vernier controls with the new style FAA knobs at no extra charge. The throttles will be furnished with the smooth black knob, the mixture controls with the contoured red knob and the prop controls with the contoured blue knob. Look to Aircraft Spruce & Specialty Company for a complete selection of original installation or replacement controls at tremendous savings.

Throttle Control (Black) (FAA Color) Or White

Mixture Control (Red)

Prop Control (Blue)

REPLACEMENT PARTS FOR ACS CONTROLS

ACS large Control Cable Grommet made of black synthetic rubber .....P/N 05-02633 .....

ACS Rubber Grommets N-549-A (Small)
P/N 05-02634..... ---

ACS Large Black Knob A-663-A for the A-800 controls.
P/N 05-03416 ..... ---

Replacement ball bearings for A790 Controls
P/N 05-07700 ..... ---

Replacement ball bearings for A700/A-1840 Controls
P/N 05-02618 ..... ---

NOTE: The Grommets (rubber boots) fit all ACS 10-32 threaded end controls, such as: A-750, A-800, A-770, A-1860, A-920, A-1550, A-1750, A-950, and A-1760.

A-750 VERNIER CONTROL
(10-32 THREADED END)

The A-750 vernier control has 10-32 threaded shaft for use with ball point or threaded terminal. Unique ball-socket construction permits the threaded end to swivel 8° in any direction. Casing has Teflon inner liner for low friction and heat resistance in high-temperature areas such as engine compartments. Furnished with FAA-style knobs (Black, Red & Blue). Travel: 3-3/8". Wt. 1 lb. (4'). Stocked in the following lengths (measurement taken from under panel nut to end of threaded shaft with knob pushed in). Order by Part No.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-07736	05-07748	05-07760	05-07772	05-07784	05-07796
Red	05-07836	05-07848	05-07860	05-07872	05-07884	05-07896
Blue	05-07936	05-07948	05-07960	05-07972	05-07984	05-07996
Price	---	---	---	---	---	---

Glasair Prop Control A-750 Blue 80" long...P/N 05-07980 ..... ---
A-1750-12-1 Control for Cessna 182 .....P/N 05-12630 ..... ---

A-790 VERNIER CONTROL
(SOLID-WIRE END)

The A-790 vernier control has a .078" dia. stainless steel wire core. Both the wire and Teflon lined flexible casing may be shortened as required. The Teflon liner provides low friction with heat resistance in high temperature areas such as engine compartments. Furnished with FAA-style knobs (Black, Red & Blue). Max. travel: 3-3/8". Stocked in the following lengths (measurement taken from under the panel nut to end of wire with knob pushed in). Order by Part Number.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-08036	05-08048	05-08060	05-08072	05-08084	05-08096
Red	05-08136	05-08148	05-08160	05-08172	05-08184	05-08196
Blue	05-08236	05-08248	05-08260	05-08272	05-08284	05-08296
Price	---	---	---	---	---	---

Replacement Ball Bearing for A-790 Controls ..P/N 05-07700 ..... ---
A-1790-12-1 Control for Cessna 182 .....P/N 05-12629 ..... ---

A-970 VERNIER CONTROL
(1/4-28 THREADED END)

The A-970 vernier control is similar to the Model A-750 described above but with 1/4-28 threaded end (non-swiveling). Casing has Teflon inner liner for low friction and heat resistance in high-temperature areas such as engine compartments. Furnished with FAA-style knobs (Black, Red & Blue). Travel: 3-3/8". Stocked in following lengths (measurement taken from under panel nut to end of threaded shaft with knob pushed in). Order by Part Number.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-08336	05-08348	05-08360	05-08372	05-08384	05-08396
Red	05-08436	05-08448	05-08460	05-08472	05-08484	05-08496
Blue	05-08536	05-08548	05-08560	05-08572	05-08584	05-08596
Price	---	---	---	---	---	---

A-800 FRICTION LOCK CONTROL
(10-32 THREADED END)

The A-800 friction lock control provides positive locking at any power setting by turning the chrome collet locking nut. Unique ball-socket construction permits 10-32 threaded end to swivel 8° in any direction. Casing has Teflon liner for low friction and heat resistance in high-temperature areas such as engine compartments. Travel: 3-3/8". The 1-1/4" dia. solid knob is available in black or blue (blue knob has smooth profile, not FAA style). Stocked in following lengths (measurement taken from under panel nut to end of threaded shaft with knob pushed in). Order by Part No.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-08636	05-08648	05-08660	05-08672	05-08684	05-08696
Blue	05-08836	05-08848	05-08860	05-08872	05-08884	05-08896
Price	---	---	---	---	---	---

A-800 VANS CONTROL CABLE FOR RV AIRCRAFT

Specify knob color (black, blue, red), overall length of control (from under panel nut to end of control) and stroke (2-1/4", 2-1/2"). For controls over 72" long, add $1.50 per foot. For custom stroke (2-3/8", 2-3/4", 3-1/2") add $45 to cost of control.....P/N 05-01436 ..... ---

A-810 FRICTION LOCK CONTROL
(1/4-28 THREADED END)

The A-810 friction lock control is similar to the A-800 control but with 1/4-28 threaded end (non-swiveling). With Teflon liner. Travel: 3-3/8". Knob styles and length measurement same as for A-800. Stocked in the following lengths. Order by Part Number.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-09236	05-09248	05-09260	05-09272	05-09284	05-09296
Blue	05-09336	05-09348	05-09360	05-09372	05-09384	05-09396
Price	---	---	---	---	---	---

A-810-12-1 Control for Cessna 182.....P/N 05-12631 ..... ---

A-820 FRICTION LOCK CONTROL
(SOLID-WIRE END)

The A820 friction lock control is similar to the A-800 control but with a solid wire end like the A-790 control above. With Teflon liner. Travel: 3-3/8". Knob styles and measurements same as for A-800.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-09436	05-09448	05-09460	05-09472	05-09484	05-09496
Blue	05-09536	05-09548	05-09560	05-09572	05-09584	05-09596
Price	---	---	---	---	---	---

FAA APPROVED A-790 & A-800 CONTROLS

The A-790-12 vernier mixture control and the A-800-12 friction lock throttle control are approved for Cessna 172, 172A thru Q; Cessna 150, 150A thru M, A150K, A150L, A150M; Cessna 152, A152. Other approvals pending. Order by part number and state Cessna model and serial number. A790-12 is 53" long. A800-12 length is based on serial number provided. **Note**: For special length controls over 25ft. long, add extra $15.00 to the set-up fee.

P/N A-790-12 ..... --- P/N A-800-12 ..... ---

All ACS Products Controls are made in the U.S.A

SEE OUR WEBSITE FOR ELIGIBILITY LIST!
CUSTOM SPECIAL LENGTH CONTROLS AVAILABLE. PLEASE CALL FOR PRICING.

A-700 BUTTON LOCK DASH CONTROL
(7/16-20 UNF-2A THREADS / SOLID WIRE END)

Provides a 10-lb. locking force for light and medium service applications. Black or Red anodized aluminum knob with aluminum release button. Has .062" dia. stainless steel wire core in flexible metal casing. May be shortened as req. Max. travel 3-1/2". Order by Part No.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-13172	05-13184	05-13196	05-13120
Red	05-13272	05-13284	05-13296	05-13220
Price	---	---	---	---

Replacement Ball Bearing for A-700/A-1840 Controls P/N 05-02618 ..... ---

A-700-12-1 CONTROL FOR CESSNA 182 - See our website for eligibility list .....P/N 05-12629 ..... ---

A-770 BUTTON LOCK DASH CONTROL
(10-32 THREADED END)

Same as A-700 control above except has 10-32 threaded end, with .078' dia. stainless steel inner cable and Teflon-lined flexible casing. Order by part number.

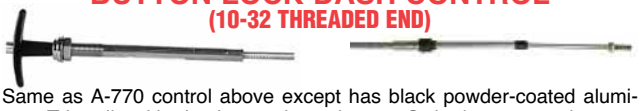
Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-16172	05-16184	05-16196	05-16120
Red	05-16272	05-16284	05-16296	05-16220
Price	---	---	---	---

A-780 BUTTON LOCK DASH CONTROL
(1/4-28 THREADED END)

Same as A-700 control above except has 1/4-28 threaded end, with .078' dia. stainless steel inner cable and Teflon-lined flexible casing. Order by part number.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-16372	05-16384	05-16396	05-16320
Red	05-16472	05-16484	05-16496	05-16420
Price	---	---	---	---

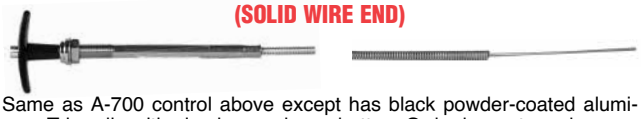
A-1860 T-HANDLE BUTTON LOCK DASH CONTROL
(10-32 THREADED END)



Same as A-770 control above except has black powder-coated aluminum T-handle with aluminum release button. Order by part number.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-16672	05-16684	05-16696	05-16620
Price	---	---	---	---

A-1840 T-HANDLE BUTTON LOCK DASH CONTROL
(SOLID WIRE END)



Same as A-700 control above except has black powder-coated aluminum T-handle with aluminum release button. Order by part number.

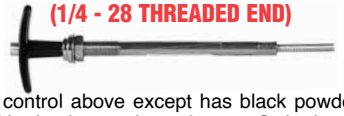
Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-13572	05-13584	05-13596	05-13520
Price	---	---	---	---

EXTENSIONS FOR THREADED CONTROLS

Use these stainless steel extensions for moderate length adjustments to stock length controls. Stocked with 1 male & 1 female threaded end. The extensions provide the required increase in control length when threaded approximately half way onto the control. Furnished in 2", 3", 4", 5" and 6" lengths. All extensions have 10-32 threads. To order, add -2, -3, -4, or -5 to Dash number for length...P/N 10376 ..... **---/ea**

All ACS Products Controls are made in the U.S.A

A-1870 T-HANDLE BUTTON LOCK DASH CONTROL
(1/4 - 28 THREADED END)



Same as A-780 control above except has black powder-coated aluminum T-handle with aluminum release button. Order by part number.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-16872	05-16884	05-16896	05-16820
Price	---	---	---	---

A-730 GLIDE FREE CONTROL
(SOLID WIRE END)

Simple design for push-pull operation with low friction characteristics. Has .050" dia. stainless steel wire core in flexible metal casing with polyethylene liner. May be shortened as required. Max. travel 3-1/2". Available with black or red plastic knob. Order by Part No.

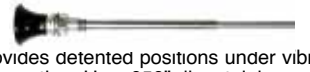
Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-13672	05-13684	05-13696	05-13620
Red	05-13772	05-13784	05-13796	05-13720
Price	---	---	---	---

A-1770 T-HANDLE GLIDE FREE CONTROL
(SOLID WIRE END)

Same as A-730 above except with black powder coated aluminum T-handle. Order by part number.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-13872	05-13884	05-13896	05-13820
Price	---	---	---	---

A-740 RATCHET CONTROL
(SOLID WIRE END)



Ratchet design provides detented positions under vibration conditions. Simple push-pull operation. Has .050" dia. stainless steel wire Core in flexible metal casing with polyethylene liner. Maximum temperature range 200° - 250°F. May be shortened as required. Max. travel 3-1/2". Available with black or red plastic knob. Order by Part No.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-14072	05-14084	05-14096	05-14020
Red	05-14172	05-14184	05-14196	05-14120
Price	---	---	---	---

A-1780 T-HANDLE RATCHET CONTROL
(SOLID WIRE END)

Same as A-740 above except with black powder coated aluminum T-handle. Order by part number.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-14272	05-14284	05-14296	05-14220
Price	---	---	---	---

CONTROL END EXAMPLES

SOLID WIRE

SOLID WIRE SPEC END STYLE C

10-32 THREADED END

1/4"-28 THREADED END

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

A-920 PUSH-PULL CONTROL
(10-32 THREADED END)

This control has 10-32 threaded ends with 8 degree swivel & 3-3/8" stroke on both ends. It has Teflon™ casing liner for use in high-temperature areas such as engine compartments, & .078" dia. stainless steel inner cable to minimize backlash. Stocked in the following lengths. Order by Part No.

Control Length	Part No.	Price	Control Length	Part No.	Price
36"	05-12736	---	96"	05-12796	---
48"	05-12748	---	108"	05-127108	---
60"	05-12760	---	120"	05-127120	---
72"	05-12772	---	132"	05-127132	---
84"	05-12784	---	144"	05-127144	---

A-930 PUSH-PULL CONTROL
(1/4-28 THREADED END)

This control has 1/4-28 threaded ends (nonswiveling) and 3-1/2" stroke. It has Teflon casing liner for use in high-temperature areas such as engine compartments, and .078" dia. stainless steel inner cable to minimize backlash. Stocked in the following lengths. Order by Part No.

Control Length	Part No.	Price	Control Length	Part No.	Price
36"	05-30036	---	96"	05-30096	---
48"	05-30048	---	108"	05-30108	---
60"	05-30060	---	120"	05-30120	---
72"	05-30072	---	132"	05-30132	---
84"	05-30084	---	144"	05-30144	---

SPECIAL LENGTH CONTROLS AVAILABLE.

A-1550 PUSH-PULL CONTROL
(10-32 THREADED END)

This control has same design as A-920 control but with 7/16-20 threaded bulkhead fittings added at each end. Not stocked. Available at base price of $33.73 + $4.88 per ft. or fraction of a foot + $20 set-up charge

A-1750 VERNIER CONTROL
(10-32 THREADED END)

A-1750 Vernier Control: features - removable button and facenut and 2" of control panel threads for those difficult mounting applications. (10-32 threaded control rod like the A-750 control.)

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8Ft.
Black	05-10236	05-10248	05-10260	05-10272	05-10284	05-10296
Red	05-10336	05-10348	05-10360	05-10372	05-10384	05-10396
Blue	05-10436	05-10448	05-10460	05-10472	05-10484	05-10496
Price	---	---	---	---	---	---

A-1970 VERNIER CONTROL
(1/4-28 THREADED END)

A-1970 Vernier Control same features as the A-1750 except it has the A-970 style (1/4 x 28 threaded rod)

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8Ft.
Black	05-09636	05-09648	05-09660	05-09672	05-09684	05-09696
Red	05-09736	05-09748	05-09760	05-09772	05-09784	05-09796
Blue	05-09836	05-09848	05-09860	05-09872	05-09884	05-09896
Price	---	---	---	---	---	---

SPECIAL LENGTH CONTROLS AVAILABLE.

CONTROLS WITH COILED WIRE END – To order, add "C" to part number. Controls with coiled end have only 3" stroke rather than 3-1/2" on standard end controls.

All ACS Products Controls are made in the U.S.A

A-950 PUSH-PULL CONTROL
(10-32 THREADS / SOLID WIRE END)

Same as A-920 control except one end is .078" dia. stainless steel wire. Special-length controls not required as the wire end can be cut off to desired length. Order by Part No.

Control Length	Part No.	Price	Control Length	Part No.	Price
36"	05-16936	---	96"	05-16996	---
48"	05-16948	---	108"	05-169108	---
60"	05-16960	---	120"	05-169120	---
72"	05-16972	---	132"	05-169132	---
84"	05-16984	---	144"	05-169144	---

A-960 PUSH-PULL CONTROL
(1/4-28 THREADS / SOLID WIRE END)

Same as A-930 control except one end is .078" dia. stainless steel wire. Special-length controls not required as the wire end can be cut off to desired length. Order by Part No.

Control Length	Part No.	Price	Control Length	Part No.	Price
36"	05-17036	---	96"	05-17096	---
48"	05-17048	---	108"	05-170108	---
60"	05-17060	---	120"	05-170120	---
72"	05-17072	---	132"	05-170132	---
84"	05-17084	---	144"	05-170144	---

A1600 SERIES
POSITIVE LOCK CONTROLS – SINGLE END

These positive-locking controls are available with white, black, or blue knob or T-handle style in black or aluminum. Complete part number with -W for white, -B for black knob, -BU for blue knob, -TB for t-handle black or -TA for T-handle aluminum. Special length controls are available.

Control	End	6 Ft.		7 Ft.		8 Ft.		10 Ft.	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
A-1610	.078 Wire	05-17172	---	05-17184	---	05-17196	---	05-17120	---
A-1620	10-32 Thread	05-17272	---	05-17284	---	05-17296	---	05-172120	---
A-1630	1-1/4-28 Thread	05-17372	---	05-17384	---	05-17396	---	05-17320	---

POSITIVE LOCK CONTROLS – DUAL END

These positive-locking dual controls are available with white, black, or blue knob or T-handle style in black or aluminum. Complete part number with -W for white, -B for black knob, -BU for blue knob, -TB for t-handle black or -TA for T-handle aluminum. Special length controls are available.

Control	End	6 Ft.		7 Ft.		8 Ft.		10 Ft.	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
A-1640	.078 Wire	05-17472	---	05-17484	---	05-17496	---	05-17420	---
A-1650	10-32 Thread	05-17572	---	05-17584	---	05-17596	---	05-17520	---
A-1660	1-1/4-28 Thread	05-17672	---	05-17684	---	05-17696	---	05-17620	---

A-1760 VERNIER CONTROL
(10-32 THREADED END)

A-1760 Vernier Control like a A-750 control except it has a threaded bulkhead fitting in place of the grooved or notched fitting.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8Ft.
Black	05-09936	05-09948	05-09960	05-09972	05-09984	05-09996
Red	05-10036	05-10048	05-10060	05-10072	05-10084	05-10096
Blue	05-10136	05-10148	05-10160	05-10172	05-10184	05-10196
Price	---	---	---	---	---	---

A-1760 VANS RV CUSTOM CONTROL CABLE

Specify knob color (black, blue, red), overall length of control (from under panel nut to end of control) and stroke (2-1/4", 2-1/2").

P/N 05-01435 ..... ---

AP

WIRE GRIP

Is a unique fitting which securely attaches to solid wire end push-pull cables. Uses a "pin vice" gripping action to attach a cable. The 5/8" long 10-32 threaded end will attach a clevis, ball joint, or other hardware for use with mixture controls, carb heat box, cabin air, or other applications, resulting in a clean, professional installation.

For .040-.050 dia cables .....P/N 05-08101 ..... ---
For .055-.062 dia cables .....P/N 05-16000 ..... ---
For .078 dia cables.....P/N 05-16001 ..... ---

(Use P/N 05-16001 on A790, A820, A960, and A950 ACS controls)
(Use P/N 05-08101 on ACS A730, A740, A1770, and A1780 controls

AN486 TERMINALS

With 1/4-28 female threads. Fork hole dia. 3/16". AN486-3P has 17/64" fork opening. AN486-4P has 9/64" fork opening...

P/N AN486-3P..... ---
P/N AN486-4P..... ---

AN665-21R TERMINAL

Has 10-32 threads and 3/16" dia. fork hole. Furnished with clevis pin, cotter pin and locknut.

P/N 05-02500 ..... ---

BOLT TYPE TERMINAL

Special 3/16" dia. bolt with drilled shank. With hex nuts and washers. Use instead of "bug" nut.

P/N 05-16100 ..... ---

CONTROL HOUSING CLAMPS

AN742 plain loop type clamps to secure housing of throttles, dash controls, Bowden cable, etc. to airframe.

AN742-D3 for 3/16" O.D ..... ---
AN742-D4 for 1/4" O.D ..... ---

SLOTTED BRACKET CONTROL MOUNT

Notch of end fitting locks into slot of bracket to secure control. Steel Construction.

P/N 10465 ..... ---

CLAMP STYLE CONTROL MOUNT

Protruding "finger" in clamp holds control in position. Two-piece steel clamp and base.

P/N 10464 ..... ---

WIRE STOP

Wire Stop is ideal for securing cable ends. Removable and completely reusable.
OD 1/4" ID 8-32 Length 3/8" for cable up to 3/32"

P/N 15-06291 ..... ---

FLAP HANDLE COVER

This flap handle is durable, flame-retardant, and fairly easy to install. The end result is a 1 foot section of tubing that will fit on any flap handle (Or any other round handles) that is 3/4" to 7/8" in diameter. The exposed length on the handle should not exceed 12 inches subtracting the length of the grip. It is simple to install with a high heat blow dryer or heat gun. When installed it will have a dark gray texture and be highly resistant to minor dings. This tubing will confirm to small radius bends and cover most scratches and minor surface imperfections. .P/N 05-06920 ..... ---

STANDARD FLAP HANDLE GRIP

This is a standard Black plastic grip that can be installed on any round 7/8" shaft. It has a cutout in the end for a release button. It is ribbed all the way around.....P/N 05-06923 ..... ---

RED FLAP HANDLE GRIP

This is a standard Red plastic grip that can be installed on any round 7/8" shaft. It has a cutout in the end for a release button. It is ribbed on the top and has finger grips on the bottom .....P/N 05-06922 ..... ---

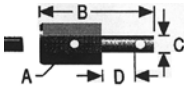
RUBBER HEX CUT FLAP HANDLE GRIP

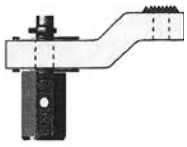
This is a special Rubber grip that can be installed on any round 7/8" shaft. It has a cutout in the end for a release button. It has a raised Hex cut pattern all around the grip .....P/N 05-06921 ..... ---

CARGO TIE-DOWN DOUBLE STUD FITTING

Double stud round ring..... P/N 05-13140..... ---
Double stud Twisted ring ... P/N 05-13141..... ---

CABLE END "B" NUT





This universal NAP assembly will eliminate bent or smashed push-pull cable ends and get a strong hold at the same time. The cable end lays in a machined channel at the bottom of the screw hole. Tightening the compression screw snugs down on the cable end thus eliminating any potential crimping or smashing of the cable. Eliminates wear, possible cable breakage and enhances smooth push-pull operation. Complete with washers and cotter pin. All stainless steel, computer machined and easy to install.

Description	A	B	C	D	Part No.	Part No.
Throttle, Wt,.26oz	.070	.825	.186	.241	05-16210	---
Mixture, Wt,.29oz	.086	.825	.249	.255	05-16230	---
Cabin Heat, Wt, .26oz	.070	.645	.249	.093	05-16240	---
Carb Heat	.070	.645	.186	.093	05-16245	---

CABLE SAFE

A Safe "No-Slip-Grip" for your thru bulkhead cables. This unit prevents your throttle, mixture, choke or any push-pull cable from slipping at the firewall/ bulkhead location. Machined from lightweight aluminum, and final blue anodizing. Installation is simple with a drill and wrench. Once installed, the cable is threaded and the end nut is snugged down on the cable casing for positive encapsulation. Designed specifically for the aircraft industry, these fittings can be installed on virtually any application that requires a solid hold on any cable assembly with a rigid outer case. Thousands of applications: auto, boat, race car, motorhome. Used with 1/4" thru 7/32" diameter cable.

Cable Safe, Wt.: .84 oz. .....P/N 05-16250 ..... **---/ea.**

CABLE SAFE II - This Fitting is designed for use on coaxial type control cables. It has a two piece design to allow it to be placed over the cable inserted thru the firewall & tightened down, providing a positive lock.

For 1/4" cable housing .....P/N 05-16252 ..... **---/ea.**
For 3/8" cable housings.....P/N 05-16253 ..... **---/ea.**
ADAPTOR - For the cable safe to adapt down to 3/16" diameter cable housings. .....P/N 05-16251 ..... **---/ea.**

WIRE SWIVELS

OD: 1/4"; **ID:** 8-32; **Length:** .240"; **Cable Dia.:** 3/32 Max
Mfr. No. 2361..... P/N 06-01282 ..... ---

CONDUIT RETAINER - STRAIGHT

OD: 5/16-24; **ID:** .260; **Length:** 2; **Conduit:** 7/32
Mfr. No. 2386.....P/N 06-01281 ..... ---

BOWDEN CABLE (SOLID WIRE ENDS)

Spiral-wound galvanized wire casing. Use for push-pull controls of any length. Inside cable dia. .078. Outside casing diameter 7/32".

P/N 05-15500 .....**---/ Ft.**

BOWDEN CABLE INNER WIRE

Stainless stainless steel wire .078" diameter. Sold by the foot.....P/N 05-15510 .....---
Bowden cable housing.....P/N 05-15505 .....---

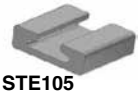
BOWDEN CABLE CLAMP

Designed to provide a simple method of anchoring a typical wire wound cable. Used in anchor hole of 7/16" diameter.

For 3/16" Bowden Cable.....P/N 05-15705 ..... **---/ea.**
For 7/32" Bowden Cable.....P/N 05-03287 ..... **---/ea.**

BROWNLINE STYLE SEAT/CARGO TRACKS

6656



STE105

Aircraft Spruce now carries Brownline style seat track and extrusion for modifications and homebuilder, or experimental aircraft customers. The new seat track can be ordered as slotted extrusion with or without 0.785" diameter machined openings every one inch, and can be purchased in anodized standard lengths or by the inch. They can also be purchased in non-anodized bulk lengths from 75" to 180". Compatible with common MS33601 .73" diameter style fittings, the new tracks are precision machined, from aerospace grade 7075-T6511 aluminum with full traceability and material certification.

MFR Part No.	Description	Part No.	Price
6656-6	6" 6656-6	05-07163	---
6656-12	12" 6656-12	05-07164	---
6656-18	18" 6656-18	05-07166	---
6656-24	24" 6656-24	05-07167	---
6656-36	36" 6656-36	05-07168	---
6656-48	48" 6656-48	05-07169	---
STE105	Extrusion STE105 (Sold per inch)	05-07172	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FRICTION THROTTLE

Adjustable friction throttles with same construction as the ACS A-800 friction throttle but with a large (2" dia.) black solid plastic knob. Has 3/16" dia. 10-32 threaded end with 8° swivel. Stocked in the following lengths (measurement taken from under panel nut to end of threaded shaft with knob pushed in). Order by Part No. Made in the U.S.A.

Length	Part No.	Price	Length	Part No.	Price
3 Ft.	05-13700	---	5 Ft.	05-13900	---
4 Ft.	05-13800	---	6Ft.	05-14000	---

SPECIAL LENGTH CONTROLS - Use price of next longest stock length above plus $20 set-up charge. For lengths over 6 ft. also add $1.45 per foot. Allow 2-3 weeks. **THROTTLE KNOB -** Black solid plastic knob, 2" dia., with 1/4-28 internal threads. .....P/N 05-29100 ..... ---

BUTTON TYPE DASH CONTROL

Button Type Dash Control designed for use with many control system applications. Easily installed. Operates smoothly. All adjustable parts are metal. 7/8" Dural button on 3/16" diameter shaft. Maximum travel is 2". Furnished in 5 ft. and 8 ft. length. May be shortened. Order Inserts separately.

5 Ft. Dash Control .....P/N 05-14200 ..... ---
8 Ft. Dash Control .....P/N 05-14300 ..... ---

10 20 30 40 50 60

INSERTS ONLY

Round pressure-sensitive labels, 3/4" dia. White lettering on black background. Order by part number. Basic P/N is 05-144. Last two digits of P/N are as shown in above illustration. Example: 05-14460 is "Starter" .....--- **Ea**

MC6160 UNIVERSAL PUSH TO UNLOCK CONTROL

Perfect for Alt Air and Carb Heat controls for the experimental / homebuilt market. Knobs can be engraved for --- per knob. Custom laser marking of the knobs is available for --- per knob.

Receive a $15.00 discount for each additional knob with the same design.

Size	Color	Part No.	Price	Size	Color	Part No.	Price
6Ft	Black/Black	05-04607	---	6Ft	Clear/Black	05-04610	---
8Ft	Black/Black	05-04608	---	8Ft	Clear/Black	05-04611	---
12Ft	Black/Black	05-04609	---	12Ft	Clear/Black	05-04612	---

T-HANDLE DASH CONTROL

Manufactured of duralumin and brass. Locks positively, will not vibrate loose. One-fourth turn locks it in any position and will hold up to 100 lbs. Standard travel 2-1/2". T-handle is 1-3/4" wide. Can be mounted from front or rear of instrument panel. Complete with wire and casing which may be shortened.

SINGLE WIRE

5 Ft. Control .....P/N 05-15000 ..... ---
8 Ft. Control .....P/N 05-15100 ..... ---
12 Ft. Control .....P/N 05-15200 ..... ---

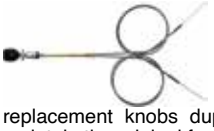
TWO WIRES

8 Ft. Control .....P/N 05-15300 ..... ---

CARBURETOR HEAT CONTROL FOR CESSNAS

Carburetor Heat Controls for Cessna 140 thru 185 aircraft. High temperature Teflon lined conduit for reduced vibration wear, longer life and smooth, consistent control. Cheapy controls with poly liners will not tolerate engine temperatures and special heavier wire for more fatigue strength and reliability. Improved friction mechanism. High quality scratch resistant phenolic knob. Updated square knob meets the latest FAA standards. 4ft. end to end. P/N 05-11978 ..... ---

CARBURETOR HEAT CONTROL FOR PIPER PA 28



Special, heavier wire for more fatigue strength and reliability. Improved friction mechanism. Reduced vibration wear. Anti-rotate feature to reduce stress on the inner wire. High temperature Teflon lined conduit. High quality replacement knobs duplicate the original Piper color and shape to maintain the original factory appearance of the instrument panel.

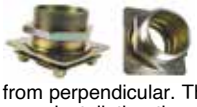
P/N 05-15355 ..... ---

EYEBALL FIREWALL ASSEMBLIES

Allows easy installation of cables with oblique entry/exit angles. Includes the eyeball swivel, cable pass through, and line clasper. The Eyeball swivels up to 50 degrees and is clamped in place to complete installation. The hole is easily enlarged for other sizes.

Ball Matl.						
	Aluminum		Steel		Aluminum	
Appx. Wt.	0.08 lb.		0.07 lb.		0.10 lb.	
Model No.	SE961-B		SE961-S		TTp	
Hole Size	Part No.	Price	Part No.	Price	Part No.	Price
.125"	05-03440	---	05-00764	---	05-00722	---
.188"	05-00957	---	05-00766	---	05-00723	---
.218"	05-01378	---	05-01381	---	05-01383	---
.240"	05-01379	---	05-01382	---	05-01384	---
.250"	05-00958	---	05-00767	---	05-00724	---
.260"	05-00959	---	05-00768	---	05-00726	---
.312	---	---	05-12502	---	---	---
.330	05-12498	---	05-12503	---	05-12493	---
.375"	05-01380	---	05-12504	---	05-12494	---
.438	05-12499	---	05-12505	---	05-12495	---
.500	05-12500	---	05-12506	---	05-12497	---
.562	---	---	05-12507	---	---	---
.750	---	---	05-12508	---	---	---

SERIES 4000 SPHERICAL METAL GROMMETS



The 4000 Series Spherical Metal Grommets have been developed to offer superior and robust aircraft cockpit fire protection and to give flexibility in routing pass-through controls at angles up to 50° from perpendicular. The 4000 Series require only a single hole for minimum installation time. All-steel construction allows the product to meet temperature requirements of FAA Aircraft Circular 20-135 for certificated aircraft. **Model 4100** has an extended body and enlarged body flange for use on composite firewalls. **Model 4200** accommodates steel firewalls up to 0.040" thickness.

4100 Series			4200 Series		
Size	Part No.	Price	Size	Part No.	Price
.125"	05-06893	---	.125"	05-06905	---
.188"	05-06894	---	.188"	05-06906	---
.218"	05-06895	---	.218"	05-06907	---
.240"	05-06896	---	.240"	05-06908	---
.250"	05-06897	---	.250"	05-06909	---
.260"	05-06898	---	.260"	05-06910	---
.312"	05-06899	---	.312"	05-06911	---
.375"	05-06901	---	.375"	05-06912	---
.438"	05-06902	---	.438"	05-06913	---

MODEL 4100 SERIES SHOWN HAVE A BODY LENGTH OF 1/2". SEE WEBSITE FOR LONGER BODY LENGTHS.

SERIES 6000/7000 SPHERICAL METAL GROMMETS

The 6000 Series Spherical Metal grommets have been developed to address these issues: Space restrictions on some firewalls, Ease and time required for installation, FAA requirements for fire protection, and Minimum parts count.

This series requires only space for a 3/4" wrench on the firewall, and can accommodate ball hole sizes from .125" to .260".

The 7000 Series Spherical Metal Grommets have been developed to require minimal preparation and installation time in a robust, all-steel product with a minimal parts count and parts less likely to be dropped or lost during installation. As an all-steel product, it meets the heat resistance requirements of FCC AC 135. This is a requirement for firewall use in certificated aircraft. Installation still requires FAA field approval for those aircraft.

The Model 7000 can accommodate a pass-through up to .925" in diameter, making it ideal for pass-throughs.

6000 Series			7000 Series		
Size	Part No.	Price	Size	Part No.	Price
.125"	05-06929	---	.125"	05-06935	---
.188"	05-06930	---	.188"	05-06936	---
.218"	05-06931	---	.218"	05-06937	---
.240"	05-06932	---	.240"	05-06938	---
.250"	05-06933	---	.250"	05-06939	---
.260"	05-06934	---	.260"	05-06940	---
			.312"	05-06941	---
			.375"	05-06942	---
			.438"	05-06943	---
			.500"	05-06944	---
			.562"	05-06945	---
			.750	05-12501	---

SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE SELECTION OF SPHERICAL METAL GROMMETS

AP

THROTTLE QUADRANTS

THROTTLE QUADRANTS FOR RV'S

These quadrants are made from aircraft quality anodized aluminum for long life and corrosion resistance brass friction plates are adjustable to fit individual preferences. Black anodized top plates are machined and engraved on a CNC mill to exacting tolerances for an excellent finish. side plates are laser cut insuring a perfect fit and feel. All hardware used meets AN standards. **Note**: All throttle quadrants require a AN665-21R clevis with an AN393-11 clevis pin.
The side mount style quadrants are intended for use in tandem airplanes such as the RV4, RV8, Stardusters, Baby Great Lakes, One Design, Acro Sport & Sonerai. Center mount style is intended for use in side-by-side aircraft such as RV's, Sonex, Thorp T18 & Pulsars.

2 CONTROL LEVER
Model Specifications:
Side Mount Curved Top Model: SMCT2L
Weight: 8 Oz.
7-3/4" H x 4-3/4" W x 1-1/2" D
P/N 05-00697 ..... ---

3 CONTROL LEVER
Model Specifications:
Side Mount Curved Top Model: SMCT3L
Weight: 10 Oz.
7-3/4" H x 4-3/4" W x 2" D
P/N 05-00698..... ---

2 CONTROL LEVER
Model Specifications:
Center Mount Curved Top Model: CMCT2L
Weight: 10 Oz.
7-3/4" H x 7" W x 2" D ...P/N 05-00699 ..... ---

3 CONTROL LEVER
Model Specifications:
Center Mount Curved Top Model: CMCT3L
Weight: 12 Oz.
7-3/4" H x 7" W x 2" D
P/N 05-00701..... ---

2 CONTROL LEVER
Model Specifications:
Side Mount Flat Top Model: CT82F
Weight: 8 Oz.
7-3/4" H x 4-3/4" W x 1-1/2" D
P/N 05-00702 ..... ---

3 CONTROL LEVER
Model Specifications:
Side Mount Flat Top Model: CT83F
Weight: 10 Oz.
7-3/4" H x 4-3/4" W x 2" D
P/N 05-00703..... ---

RV8 REAR QUADRANT
A single lever rear quadrant with an engraved top plate and a short handle for better clearance. 8" x 5-1/4" x 2" .....P/N 05-04531 ..... ---

ACS THROTTLE QUADRANTS

Available in two lever designs. The 2-lever control has black plastic "Throttle" knob and red "Mixture" knob. The 3-lever control has blue "Prop" knob in addition to the throttle and mixture knobs. Built-in friction lock. Levers have 2-1/2" travel. Quadrants fit on left or right side of cockpit and can be used in tandem. Complete with aluminized Mylar knob inserts. Ends of throttle and prop levers have 3/16" dia. holes for attachment of push-pull controls with clevis terminals. End of mixture lever has .076" dia. hole to accept solid wire control such as Bowden cable. Made in the U.S.A.
Two-Lever Quadrant .....P/N 05-00960 ..... ---
Three-Lever Quadrant (pictured).....P/N 05-00961 ..... ---

STAINLESS STEEL FIREWALL PASS THRU KIT

The heart of this kit is a one piece metal spun flanged tube, made from .050" thick stainless steel, along with a .050" thick reinforcement plate. (Other flanges on the market are made from .020" thick stainless flat stock, rolled and spot welded together). The flange is the strongest, most indestructible flange on the market. The flange mounts on the inside (crew side) of the firewall, and the reinforcement plate mounts on the forward (engine) side of the firewall – capturing the firewall between 2 pieces of .050" thick stainless steel. The flange has a generous radius formed between the flange and tube to prevent chaffing of wires and cables. Most builders will utilize TWO firewall pass thru units – one for high current cables (battery, alternator, main buss power) and the second for smaller signal wiring for engine instrumentation and control functions .....P/N 12-04762 ..... ---

PIPER PUSH PULL CABLE

65" Piper Push Pull Cable - Less Knob.

- Applicability: Piper PA-12, PA-15, PA-16, PA-17, PA-18, PA-20, PA-22
- Used for mixture, cabin heat, carb heat and other applications
- Stainless steel
- Length: 65 inches
- Knob not included
- FAA/PMA approved

- Supercedes part numbers 16775-00, 41481-06, 41481-07, 41481-08, 41481-10, 41481-11, 41481-13, 41481-15, 41481-16, 454-120, 16775-000, 41481-006, 41481-007, 41481-008, 41481-010, 41481-011, 41481-013, 41481-015, and 41481-016

P/N 05-21968 ..... ---

ROTAX DUAL CARBURETOR THROTTLE CONTROLS

Allows a neat, clean throttle installation without a clunky splitter box. Supersmooth friction lock, heavy duty 0.062 inch stainless steel inner wires. Standard knob is egg shape and ball knob is sphere shape.

Description	Part No.	Price	Description	Part No.	Price
4' Std Knob	05-04385	---	6' Std Knob	05-04386	---
6' Std Knob	05-04387	---	4' Ball Knob	05-04388	---
6' Ball Knob	05-04389	---	8' Ball Knob	05-04390	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

THROTTLE QUADRANTS – CONTROL WHEELS

HOMEBUILDERS THROTTLE QUADRANTS

These quality quadrants have been in use in a wide variety of experimental and ultralight aircraft for over 25 years. Designed and manufactured to provide years of dependable, precise performance.

Model #1 – This external reversing hook-up quadrant can be used in tandem for dual control. Available with 1, 2, or 3 lever. Weight: 10 oz. Body size: 3.5" x 4".
Single lever quadrant .....P/N 05-15905 ..... ---
Two Lever Quadrant .....P/N 05-15910 ..... ---
Three Lever Quadrant.....P/N 05-15915 ..... ---
Add -F to P/N for adjustable friction.

Model #2 – This internal non-reversing hook up quadrant is often used on RV-4 and similar homebuilt aircraft. Available in 1, 2, or 3 lever models.
Weight: 12 oz.
Body Size: 3.5" x 4".
Single lever Quadrant.....P/N 05-15920 ..... ---
Two Lever Quadrant.....P/N 05-15925 ..... ---
Three Lever Quadrant.....P/N 05-15930 ..... ---
Add -F to P/N for adjustable friction.

Model #3 – This internal reversing hook up quadrant is ideal for a variety of different aircraft models. Available with 1, 2, or 3 lever. Weight: 10 oz. Body size: 3.5" x 4".
Single lever Quadrant .....P/N 05-15935 ..... ---
Two Lever Quadrant .....P/N 05-15940 ..... ---
Three Lever Quadrant.....P/N 05-15945 ..... ---

Add -F to P/N for adjustable friction.

Model #4 – This popular quadrant was specifically designed for use on RV-3 and RV-4 aircraft and is also applicable to many other homebuilt aircraft. Furnished in two lever model only and furnished with adjustable friction.
Weight: 12 oz.
Body size: 3.5" x 4".
Two lever Quadrant .....P/N 05-15950 ..... ---

Model #5 – Panel mount quadrant can be an internal reversing or internal non-reversing. Available in S-series only. One, two or three levers. Friction or non-friction. Panel Mount Reversing listed below
Single lever Quadrant .....P/N 05-02436 ..... ---
Two Lever Quadrant .....P/N 05-02437 ..... ---
Three Lever Quadrant.....P/N 05-02438 ..... ---

Model #6 – Twin-engine model: Non-reversing internal or reversing internal unit with a four-arm configuration. L-series only. Friction or non-friction. Twin Engine Reversing Internal listed below.
Four lever Quadrant.....P/N 05-02364 ..... ---
Four lever Quadrant w/ Friction
P/N 05-02365 ..... ---

T-BAR HANDLE FOR QUADRANTS

This handle is 3-1/2" long and 1-1/4" round and fits all of the Homebuilders Quadrants above. The arm slot is offset to one side. It is molded urethane and is very durable. Add -1 or -1F (as applicable) to the Part No. and $25.00 to the price (example: 05-15925-1)

ACS CONTROL WHEEL A-1310

Designed to be more user friendly than standard control wheels. Mounting position can be raised or lowered one inch by rotating the mounting flange. All parts machined from 6061-T6 billet. The A-1310 Control has cavities for wiring, but does not come prewired or with a mic switch. They can be ordered with a hole drilled for the mic or can be drilled later. Wt: 26 oz. Mounting flange hole sizes: 3/4" or 7/8".
Made in USA

Description	Part No.	Price
3/4" Black Anodized	05-02248	---
3/4" Bare Aluminum	05-02279	---
7/8" Black Anodized	05-02282	---
7/8" Bare Aluminum	05-02284	---

CONTROL YOKE UPGRADES

Now flaking & peeling finish on worn control yokes can be remedied cost effectively by these pilot-installable, semi-flexible, molded grips which are available with push-to-talk button built-into the top of the yoke (not the side). The Model SX-100 grips (pilot & copilot set) and optional, built-in, Model SX-101 plug-in push-to-talk button simply slip-over the thin, "ram's horn" control yokes of Cessna C510, C172, C177, C180, Alon Aircoupe, and others. Their thick, padded feel and built-in push-to-talk button add comfort, convenience & value to vintage airplanes. The top-mounted, low profile, miniature push-to-talk button supplied completely wired with plug, jack and coiled cord, is less likely to be pressed by accident, get in the way or slip out of position than bulky, side-strapped, units.

Description	Application	Part No.	Price
SX-200 Non-PTT Grip Each	Cessna yokes- C510, C172, C177, C180, Alon Aircoupe, and others.	05-22252	---
SX-201 Single PTT Grip W/ Coiled Cord Plug In	Cessna yokes- C510, C172, C177, C180, Alon Aircoupe, and others.	05-22253	---
SX-110 center cushion Set (Black)	Small Cessna Ram Horn - C150, C172, C177, prior to 1973	05-16610	---

FUEL TANKS

AP

FUEL WARNING SYSTEM

Float-action sensor in tank activates panel warning light when fuel supply is low. All-PBT unit, impervious to aviation fuel. Use AN 867-4 flange for mounting.

Sensor ..... P/N 6905-400 ..... ---
Warning Light ..... P/N 05-17660 ..... ---
Bulb(GE-330) ..... P/N 11-04016 ..... ---

INVERTED PICKUP TUBES

"Flop" tubes for inverted flight are made from Aeroquip 701-6 flexible hose. End fitting swaged onto hose has a 1/4" male pipe thread attached to tank outlet. Available for any of the tanks listed, or others. Specify tank model and tube length. Minimum length available is 9"

9" ..... P/N 05-20509 ..... ---
10" ..... P/N 05-20510 ..... ---
11" ..... P/N 05-20511 ..... ---
12" ..... P/N 05-20512 ..... ---
13" ..... P/N 05-20513 ..... ---

PICKUP TUBE ADAPTER

Specially machined AN912 fitting for connecting pickup tube to fuel tank.
For 12" tubes & longer ..... P/N 10380 ..... ---
Specially machined AN912-12D for shorter than 12"
P/N 10380-1 ..... ---

FLOP TUBE ADAPTER WITH SIDE OUTLET

This fitting eliminates the need to put an angle fitting on standard adapter. 1/4" female pipe thread on side and bottom & 1" male pipe or 3/4" male pipe on bottom. Use with AN867-6 or 8.

1" Male Pipe ..... P/N 05-20525 ..... ---
3/4" Male Pipe ..... P/N 05-20526 ..... ---

ALUMINUM WELDING FLANGES

Part No.	Female Pipe Thread	Dia. "D" In	Height "H" In	Price Each
AN867-1	1/8"	1-1/2	7/16	---
AN867-2	1/4"	1-3/4	5/8	---
AN867-3	3/8"	1-7/8	5/8	---
AN867-4	1/2"	2	3/4	---
AN867-6	3/4"	2-1/4	13/16	---
AN867-8	1"	2-11/16"	1"	---

FINGER STRAINERS

Finger strainers are strainers for fuel tank outlets. Standard size features a brass fitting with 3/8" male pipe thread which fits AN867-3 welding flange, and 1/4" female pipe thread for valve or fuel line fitting. Screen is 16 mesh brass.

Large finger strainer has a 3/8"-NPT x 1/2"-M-NPT brass bushing with a T304 stainless steel screen.

Standard .... P/N 05-17700 ..... --- Large .... P/N 05-04445 ..... ---

RAVEN HEADER TANKS

Header tank used for any aerobatic aircraft such as Pitts Specials etc. Comes with weld-in fitting for main tank. 16" x 7" in diameter. Holds approximately 2.5 gallons. Weighs 3 lbs ..... P/N 05-00913 ..... ---

RAVEN WING TANKS

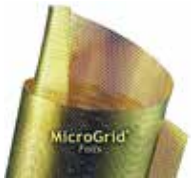
Wing tank used to hold extra fuel or smoke oil in top wing of aerobatic biplanes.

S1-S Wing Tank ..... P/N 05-00914 ..... ---
S1-C Wing Tank ..... P/N 05-00915 ..... ---
Experimental S2, Eagle Wing Tank ..... P/N 05-00916 ..... ---

STRUT FOOTBALL FUEL TANKS

5 gallon strut tank with filler cap and pick up cap. Made from see through Cross Link Polyethylene (XLPE) which prevents material breakdown due to ethanol use. This tank may be mounted right on the strut and allows for easy access for filling and viewing to check fuel levels. Experimental Only ..... P/N 05-12347 ..... ---

MICROGRID LIGHTNING STRIKE PROTECTION



MicroGrid precision expanded strike protection in composite aircraft structures. In fact, MicroGrid is used by Boeing, Embraer, and many other aircraft manufacturers. MicroGrid's single unit structure is superior because it can't unravel like woven wire. Nor is costly material removed as in etching or stamping.

The appropriate gauge and pattern of material is easily adhered to the composite for 200,000 amps of conductivity. Aircraft are easily repaired after a lightning strike by simply sanding away the surface to apply a patch of new MicroGrid. And fantastically flexible MicroGrid easily conforms to a variety of shapes and contours in both manufacture and repair. It can be bent, shaped and laminated with a variety of materials, including those which expand, contract and flex.

ALUMINUM OR COPPER MICROGRID

Aluminum MicroGrid is ideal for most composite aircraft structure applications and is nearly half the weight of the copper MicroGrid. Copper MicroGrid is recommended for use with carbon fiber structures. Two layers of MicroGrid are recommended over fuel tank applications.

Aluminum MicroGrid (37" wide) ..... P/N 05-02631 ..... --- ft.
Copper MicroGrid (18" wide) ..... P/N 05-02632 ..... --- ft.

	Aluminum	Copper
Weight - Lbs./SF	0.016	0.029
Base Metal Thickness	0.004 inch	0.003 inch
LWD	0.080 inch	0.125 inch
Overall Thickness	0.006 inch	0.005 inch
Open Area	68%	77%

ALUMINUM FUEL TANKS

PITTS SPECIAL FUEL TANK

Design	Capacity (Gallons)	Main Tank	Part No.	Tank for Inverted Flight	Part No.	Each Wing Tank	Part No.
Acro-Sport II	24	---	---	---	05-18510	---	---
Baby Greatlakes	10	---	05-03058	---	---	---	---
Cougar	23	---	05-18600	---	---	---	---
Cuby	12.5	---	05-18700	---	---	---	---
EAA Bi-Plane	16	---	05-18800	---	---	---	---
Fly Baby	14	---	05-18900	---	---	---	---
Hatz Bi-Plane	18	---	---	---	---	---	05-19020
Mustang I	16	---	05-19100	---	---	---	---
Mustang II	27	---	05-19200	---	---	---	---
Pitts Special	19	---	---	---	05-19310	---	---
Pober Pixie	12	**(Send Drwg. 05-19400)**		---	---	---	05-19420
Skybolt	29	---	---	---	05-19510	---	05-19520
Smith Miniplane	16	---	05-19600	---	---	---	---
Starduster I	18	---	05-19700	---	05-19710	---	05-19720
Starduster II	26	---	05-19800	---	05-19810	---	05-19820
Tailwind		---	05-19950	---	---	---	---

SEE PRO-SEAL TANK SEALANT AND SLOSHING COMPONENTS IN COVERING SUPPLIES SECTION

OPTIONAL TANK INSTALLATIONS

Sight Gauge (Fittings and Tubing) for Pitts or Skybolt Tanks - no installation charge.
P/N 05-29000 ..... ---

FLOP TUBE, LOW FUEL LEVEL WARNING, FLUSH FILLER CAP ARE AVAILABLE. CALL FOR PRICING.

FUEL TANK HOLD DOWN STRAPS

Fabricated from.035 stainless steel. Straps are 1"wide x 36" long. For VariViggen Starduster & others ..... P/N 05-20400 ..... ---

ANTI-CHAFE CHANNEL FOR FUEL TANK STRAPS

Neoprene rubber extrusions to hold 1" wide metal fuel tank straps.
#9 Channel ..... P/N 05-01800 ..... --- Ft.

CAUTION: Electric sender should not be installed in a tank with flop tube to prevent possible entanglement. Tank should be free of everything but flop tube. Use sight gauge with flop tube.
Prices are based on tanks manufactured to the original plans as issued by the designer. Minor modifications such as changes in tank fitting sizes or locations can be made at additional charge. Please submit all pertinent data with respect to desired changes at time of order.
ALLOW 2-3 WEEKS DELIVERY TIME ON ALL TANKS.

CUSTOM TANKS AVAILABLE: SEND BLUEPRINT OR SKETCH FOR QUOTATION
ADD $15.00 BOX CHARGE FOR CRATING TANKS FOR SHIPMENT

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CURTIS SUPERIOR VALVES

CURTIS DRAIN VALVES

Curtis Superior Valve Co., Inc. Fuel and Oil Drain Valves have been the standard in the industry for over 60 years. Curtis valves are used in OEM applications and in the military aircraft. Most valves are made of high quality brass for resistance to corrosion and rusting ,giving them long service life and extended seal life. Most Curtis Valves have a spiral to open and twist to lock for easy fuel sampling and oil draining.

05-03660

05-04050

05-03652

05-03651

05-03657

PIPE THREAD VALVES

Model Number	Thread Size	Installed Length	Material	Part No.	Price
CCA-1250*	1/8" NPT	.790”	B	05-04045	---
CCA-1300*	1/4" NPT	.965”	B	05-04046	---
CCA-1350*	38" NPT	1.08”	B	05-04047	---
CCA-1400*	1/2" NPT	1.125”	B	05-03060	---
CCA-1550*	1/8" NPT	.790”	B	05-01869	---
CCA-1600*	1/4" NPT	.945”	B	05-01870	---
CCA-1650*	3/8" NPT	1.08”	B	05-01871	---
CCA-1700*	1/2" NPT	1.125”	B	05-01872	---
CCA-36150*	1/8" NPT	.790”	BC	05-03654	---
CCA-39000*	1/4" NPT	.925”	SS	05-03655	---
CCA-4800*	1/4" NPT	.945”	BC	05-04049	---
CCA-4850*	1/8" NPT	.790”	BC	05-00686	---
CCA-4900*	1/4" NPT	.945”	BC	05-11718	---
CCA-4950*	3/8" NPT	1.08”	BC	05-04050	---
CCA-7000	3/8" NPT	1.08”	AA	05-15401	---
CCA-7450*	1/8" NPT	.790”	BC	05-03652	---
CCB-36700*	1/8" NPT	.790”	BC	05-03659	---
CCB-36750*	1/8" NPT	.725”	SS	05-03660	---
CCA-1100	1/8” NPT	.790”	A	05-12914	---
CCA-1500	1/8” NPT	.790”	A	05-12915	---

STRAIGHT THREAD VALVES

Model Number	Thread Size	Installed Length	Material	Part No.	Price
CCA-5800-1*[1]	7/16" 20 NF3	.620"	BC	05-03651	---
CCA-5800-3*[1]	7/16” 20 NF3	1.205"	BC	05-03694	---
CCA-4350*	9/16" 18 UNF3	.635"	BC	05-03648	---
CCA-39550*	5/8” 18 NF3	1.054"	B	05-01873	---
CCA-4300*	7/16" 20NF3	.625"	BC	05-03647	---
CCB-4320*[1]	7/16" 20 NF3	.835"	BC	05-03657	---
CCB-32000 Low Profile	5/8” 18 NF3	.600”	A	05-22224	---

*=TSO-C76, [1]=Non-Locking, B= Brass, AA= Aluminum Alodine, A= Aluminum, BC= Brass/Cadmium Plated, SS= Stainless Steel

05-04886

FLUSH MOUNTED VALVES

Model No.	Thread Size	Auto Valve P/N	Saf-Air P/N	Part No.	Price
CCA-2500	1/8 NPT	F391-18	SA-18	05-04885	---
CCA-2600	1/4 NPT	F391-14	SA-14	05-04886	---
CCA-2700	3/8-24 UNF	F391-32	SA-32	05-04887	---
CCA-2800	7/16-20 UNF	F391-72	SA-72	05-04888	---
CCA-2900	1/2-20 UNF	F391-82	SA-82	05-06490	---
CCA-7500	3/4-16 UNF	--	--	05-04057	---
CCA-7500-1	3/4-16 NF3	--	--	05-03653	---
CCA-7500-2	3/4-16 UNF	--	--	05-04058	---
CCB-37500	3/4-16 NF3	--	--	05-12640	---
CCB-36350-1	3/4-16 NF3	--	--	05-04059	---
CCB-36450-5	3/4-16 NF3	--	--	05-03658	---

05-15397

NON-LOCKING FUEL VALVES

Model Number	Thread Size	Auto Valve P/N	Saf-Air P/N	Part No.	Price
CCA-1200	7/16" 20 UNF	1.220"	05-15397	$62.85	---
CCA-1800	1/8" NPT	.987"	05-11156	$13.95	---
CCA-1900	1/4" NPT	.955"	05-11157	$14.50	---
CCA-2000	3/8" 24 UNF	.987"	05-11158	$14.50	---
CCA-2100	7/16" 20 UNF	.987"	05-11159	$14.50	---

AP

CURTIS SUPERIOR VALVES

AP

SELF-LOCKING OIL DRAIN VALVES

Model Number	Application	Thread Size	Installed Length	Part No.	Price
CCB-33000	Continental	5/8" 18 UNF	2.100"	05-15398	---
CCB-36000	Lycoming	½" NPT	2.040"	05-15399	---

CURTIS CAN-AM MAVERICK UTV OIL DRAIN VALVE

The Curtis CCA-1815C2 oil drain valve replaces your large 17mm oil drain plug. Installation torque of 22 foot pounds is required and identical to the OEM oil plug. Its design incorporates an activation tool used to function the valve. This design has been reliably used throughout the aviation industry for decades. Simply connect the activation tool to the valve, direct the drain hose into your disposal container, then push and twist the tool to lock the valve in the open position. Installing the valve can be done through the factory skid plate. Connecting the tool, and functioning the valve can be done through the side access near passenger rear tire. Curtis recommends a minimum of 1.750" clearance when measuring from the bottom of the skid plate to the head of the oem drain plug. Depending on terrain use, skid plate thickness, you may prefer more/l

Specifications: • Valve Material – Nickel Plated Brass • Thread – M18X1.5 • Valve Action – Push to Open, Turn to Lock • Valve Installation Length – 1.250 • Lock Wire Drilled – No .....P/N 05-27364 ..... ---

CURTIS H4 SERIES PUSH TYPE FUEL VALVES

Curtis Superior Valves are designed for installation in a standard NPT port for NPT threaded valves or an AND-10050 stlye port for UNF threaded valves.

BRASS

Model No.	Thread Size	Cert.	Installed Length	Part No.	Price
CCA-110-H4	1/8 NPT	FAA PMA	1.53	05-26755	---
CCA-160-H4	1/4 NPT	Exp.	1.49	05-26756	---
CCA-170-H4	7/16-20 UNF-3A	Exp.	1.35	05-26757	---
CCA-180-H4	3/8-24 UNF-3A	Exp.	1.40	05-26758	---

STAINLESS STEEL

CCA-110SS	1/8 NPT	TSO-C76b	.520	05-26759	---
CCA-160SS	1/4 NPT	TSO-C76b	.605	05-26760	---
CCA-170SS	7/16-20 UNF	TSO-C76b	.460	05-26761	---
CCA-180SS	3/8-24 UNF	TSO-C76b	.470	05-26762	---

FLUSH VALVES ADAPTER PLATE ASSEMBLY

05-04545

- Includes CCB-36450-5 flush mounted drain valve.
- Overall Diameter: 2.75"
- Depth from mounting surface to bottom hole diameter: 1.50"
- **Not Certified**

Standard
PLT-275V.....P/N 05-04545 ..... ---

05-04546

Flush Valve Adapter Plate Assembly. With 6 holes
PLT-275AV .....P/N 05-04546 ..... ---

CURTIS QUICK DRAIN SECURITY SYSTEM

This Curtis Quick Drain Security System is designed to accept a locking device that will prevent tampering and the theft of fuel. FAA TXO-C76 approved. The dash number on the model numbers below indicates the number of valves and locks included. System Contains: CCA-39650 Quick Drain Valves, CCA-39660 Quick Drain Locks, CCA-39670 Master Keys, and CCA-39680 Sample Cup Opener.

Part Number	Contains	Part No.	Price
CCA-39700-2	2 Tank Locking System	05-01239	---
CCA-39700-4	4 Tank Locking System	05-01255	---
CCA-39700-6	6 Tank Locking System	05-01256	---

CURTIS VALVE SUMP TOOL

• ABS plastic handle for sumping those hard- on-finger Curtis valves. • Threaded to adapt to 80ML clear container to check for water or contaminants. • Prevents fuel from flowing down into your armpits. • Provides more torque and power to push up and twist the valve to dump fuel. • Clear container comes with a cap to save your fuel sample. • No Curtis Valve Included just for reference. .....P/N 13-25148 ..... ---

OIL DRAIN VALVE ASSEMBLIES

Jabiru Rotax

05-03540

08-06258

08-06257

CURTIS OIL DRAIN VALVES FOR JABIRU AND ROTAX

Description	Application	Part No.	Prices
Curtis Oil Drain Valve - 1/2" - 20 Brass Lockwire Drilled Action-Spiral, Lock Open	Jabiru 2200, 3300	05-03698	---
Curtis Oil Drain Valve - 12mm - 1.75mm Brass, Length 1.45" Lock Wire Drilled Action-Spiral, Lock Open	Rotax 912F2, 912F3, 912F4, 914F2, 914F3, 914F4	05-03697	---

CURTIS 90 DEGREE ADAPTER FOR JABIRU AND ROTAX

Jabiru 90 Degree Adapter CCA-2480	Jabiru 2200, 3300	08-06258	---
Rotax 90 Degree Adapter Thread Size: 12mm-1.75mm, Internal/External Brass CCA-2470	Rotax 912F2,912F3, 912F4, 914F2, 914F3,914F4	08-06257	---

ADAPTER ASSEMBLY FOR JABIRU AND ROTAX

Oil Drain Valve Adapter Assembly	Rotax	05-03539	---
Oil Drain Valve Adapter Assembly	Jabiru	05-03540	---

CURTIS SUPERIOR REMOVAL TOOLS

Helps with the installation and removal of Curtis flush mounted valves without damage. Eliminates the problem of damage as well as valve torque.

Name	Works with valve:	Part No.	Price
CST-716	CAA-1250, 1550, 4850, 7450, 9950, 36150, CCB-36750	12-02244	---
CST-78	CCA-1400, 1700, 39550, 39560, CCB-3700	12-02245	---
CST-916	CCA-1300, 1600, 3600, 4800, 4900, 5900, 39000	12-02246	---
CST-1116	CCA-1350, 1650, 2440, 2450, 2460, 4320, 4950, 5400, 5800-1	12-02090	---
CST-36450	CCB-36450, CCB-36450-5	12-02280	---

QUICK DRAIN HOSES

A simple push and twist action locks the CCB-39600 Series Quick Drain Hose in place and opens the drain. Fuel / oil flows through 5' of high grade vinyl tubing preventing spillage

Model No.	Connector Color	Used with Valves	Part No.	Price
CCB-39600-1	Black	CCA-1400, CCA-1700, CCA-39550	05-00138	---
CCB-39600-2	Blue	CCA-1350, CCA-1650, CCA-4950	05-00139	---
CCB-39600-3	Yellow	CCA-1300, CCA-1600, CCA-3400, CCA-3600, CCA-4800, CCA-4900, CCA-39000	05-00141	---
CCB-39600-4	Silver	CCA-4350, CCA-7250, CCA-36400, CCA-36650	05-00142	---
CCB-39600-5	Brass	CCA-1250, CCA-1550, CCA-4300, CCA-4850, CCA-9950, CCB-36750	05-00143	---

CURTIS REPLACEMENT O-RINGS FOR OIL DRAIN VALVES

Size 108.....P/N 05-22968 ..... ---
Size 109.....P/N 05-22969 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SAF-AIR FUEL DRAIN VALVES

SAF-AIR DRAIN VALVES

SAF-AIR push type fuel drain valves are close tolerance valves of simple design. These valves provide the most trouble free operation of any other line of valves in the industry. SAF-AIR valves are manufactured with an o-ring placed on the stem to seal against a flat seat on the body. This design eliminates an area where dirt can gather, thus putting an end to the main cause of fuel drain valve drip. FAA & PMA APPROVED.

CAV-110H-4 CAV-160H-4 CAV-170H-4 CAV-180H-4
CAV-110 CAV-160 CAV-170 CAV-180

Model CAV-110 1/8" NPT - For Cessna 310 tip tanks; Mooney Mark 20 and 20A; all Ercoupe models; Bellanca, Taylorcraft model B; Stinson 108, 108-1, 108-2, 108-3; Voyager model 10 and 10A; Navion; Waco VK series and UPF; and Sea Bee. Fits all standard gascolators. **Model CAV-160 1/4" NPT -** For Piper models J-3, J-4, PA-11, -12, -14, -25, -16, -17, -18, -20, -22, -23, and -15 Tri-Pacer; Apache; Champion; Aeronca; Cessna T-50 and earlier 120 and 140 models; and Beechcraft AT-11 and C-18S. **Model CAV-170 7/16-20 NF-3 -** For all Cessna late 140A models, 150, 170, 170A, 170B, 172 and 175. **Model CAV-180 3/8-24 NF-3 -** For Cessna 180, 182, 185, 190, 195, 205, 210, 310, 310A, 310B, 310C and 336. **CAV-100H-4, CAV-160H-4, CAV-170H-4, CAV-180H-4 -** All four models come with 1/4" hose end. **Note**: All aircraft applications are for general reference only. Verify correct valve for your aircraft before ordering.

Part No.	Thread	Price	Part No.	Thread	Price
CAV-110	1/8" NPT	---	CAV-170	7/16-20 NF	---
CAV-110H4	1/8" NPT	---	CAV-170H-4	7/16-20 NF	---
CAV-160	1/4" NPT	---	CAV-180	3/8-24 NF	---
CAV-160H-4	1/4" NPT	---	CAV-180H-4	3/8-24 NF	---

Replacement Seals **Price Each**
MS29513-006 Tip (all models) ..... ---
MS29513-011 Seat (CAV-180) ..... ---
MS29513-012 Seat (CAV-170) ..... ---

SAF-AIR SPECIALTY FUEL DRAIN VALVES

4350-6L F75 SA-60S P3750 SA5817-4C C500

The F75 is used on wing tip tanks or any application where a 3/4"-16 flush mounted fuel drain valve is needed. This aluminum valve is simple and clean to operate, using any standard sampling tube. Just push up on the center of the valve to sample fuel. Our new design allows all the fuel to enter the tube without leakage. This valve is designed for use on Cessna 310 through 441 model airplanes. • The C500 is used on the bladder style wing tanks with a 1/2" diameter nozzle. • The P3750 has a 3/8" NPT thread and is designed for use on those applications. Both valves provide push-to-test or push-and twist features for locking the valve open. Material is 360 brass. • The SA5817-4C is used with a 3/4"-16 bulkhead fitting to mount the valve flush with the outside skin of the plane. A hose is attached to the valve with a 7/16"-20 fitting at the low point of the fuel system.Material is anodized aluminum. • The SA-60S valve is the same as the CAV-160 except it is constructed of 304 stainless steel. Valve can be used in highly corrosive applications such as salt water. • 4350-6L has a 7/16"-20 thread and a long stem that can be cut to length for your application. Material is anodized aluminum.

Part No.	Thread	Price	Part No.	Thread	Price
C500	1/2" Tube	---	SA-60S	1/4" NPT	---
P3750	3/8" NPT	---	4350-6L	7/16"-20	---
F75	3/4-16	---	SA5817-4C	3/4"-16	---

PIPER FUEL DRAIN KIT

Developed in compliance with Airworthiness Directive 85-06-04 for Piper aircraft. Fits most popular Piper aircraft, including J-3, 4, 5; PA-12, 14, 15, 16, 17, 18, 20 & 22. Fuselage kit includes a bushing, elbow, elastic grommet, hose, clamp, drain valve, warning sign & instructions (AD 85-06-04). Wing kit incl. drain valve, warning sign & instructions (AD85-06-04).

Fuselage Tank Fuel Drain Kit ..... P/N 05-01892 ..... ---
Wing Tank Fuel Drain Kit ..... P/N 05-01893 ..... ---
Wing Tank Fuel Drain Kit/Flush Drain ..... P/N 05-01894 ..... ---

F391 FLUSH DRAIN VALVE

Valve mounts in the sump, the same as original plug, with no projection. Can't be knocked off or opened by particles thrown from propellers. Opens only when operated with sampler cup, rod or wire. Clear cup permits inspection for water or contaminants. FAA approved.

Part No.	Thread	Application	Price
F-391-14	1/4" NPT	Aeronca, Beech AT-11, D-18S, Piper PA-11, 12, 18, 20, 22, Apache, champion, Howard	---
F-391-18	1/8" NPT	Stinson, Waco VK, UPF, Seabee, Bellanca, T-Craft "B", Navion	---
F-391-32	3/8-24	Cessna 180, 182, 195	---
F-391-72	7/16-20	Cessna 140, 150, 170, 172, 175	---
F-391-82	1/2-20	Cessna Cardinal, 210	---

Sampler Cup - Fits all F-391 Valves ..... P/N 05-17300 ..... ---

SAF-AIR FLUSH-MOUNTED DRAIN VALVES

SA14 SA18 SA32 SA72 SA82 SA187 SA53S

SAF-AIR designed its line of flush mounted fuel drain valves to be an exact replacement for the Auto Valve F391 line of flush fuel drain valves. Unlike the Auto Valve, SAF AIR valves can be rebuilt. These valves offer a dependable, low-cost solution when a flush mount is needed. **FAA & TSO-C76 approved.**

P/N	Size	Equiv.	Price	P/N	Size	Equiv.	Price
SA14	1/4 NPT	F391-14	---	SA72	7/16-20	F391-72	---
SA18	1/8 NPT	F391-18	---	SA82	1/2-20	F391-82	---
SA32	3/8-24	F391-32	---	SA187	1/8 NPT	F391-187	---

110SS 1/8-27 NPT 391-18 ..... P/N 05-27141 ..... ---

LOCK OPEN SAF-AIR DRAIN VALVES

Similar to the drain valves above with including the capability of locking in the open position making pre-flight check for contamination and water in the fuel system very easy. Models 1250 & 1250H are popular choices to install on gascolators.

FAA & TSO-C76 APPROVED.

1250 1250H 2500 2500H 3750 3750H 4375 4375H

Part No.	Size	Price Ea.	Part No.	Size	Price Ea.
1250	1/8 NPT	---	1250H	1/8 NPT*	---
2500	1/4 NPT	---	2500H	1/4 NPT*	---
3750	3/8-24	---	3750H	3/8-24*	---
4375	7/16-20	---	4375H	7/16-20*	---

***These valves come with 1/4" hose adapter**

FUEL DRAIN VALVE KITS FOR CESSNA, PIPER, AND BEECHCRAFT

These high quality fuel drain valve kits are FAA-PMA approved for a wide range of Cessna, Piper, and Beechcraft aircraft. These drain valves prevent drain nipple slippage, require no O-rings, feature corrosion free construction, and use the industry standard 1/8" pipe thread valve. **Features**: • The valve can be rebuilt • Fuel resistant o-ring - Fluorosilicone • Push to test against the wing surface **Specifications**: • Material: Valve 360 Brass, Housing Stainless • Finish: Cadmium Plate • Temperature: -100° to +350°F (-73° to +177C) • O-Rings: M25988-005 • Pressure: 60 PSI max.

Kit for Cessna ..... P/N 05-03566 ..... ---
Kit for Beechcraft ..... P/N 05-03567 ..... ---
Kit for Piper ..... P/N 05-03568 ..... ---

AP

ACS GASCOLATOR

All-metal gascolator with S.S. screen, 1-7/8" dia. anodized aluminum steel bowl w/quick drain. Top is CNC machined from 6061-T6 aluminum. Top casting has 1/4" pipe ports for 3/8" fuel line and one 1/8" pipe port for primer fitting. Wt: 8 oz. Made in the U.S.A. .....P/N 10580 ..... ---

Replacement Bowl(Alum.) .....P/N 05-11982 ..... ---

Replacement Gaskets - For auto fuel 3/32" thick x 2-1/8" O.D. 10536-1 .....P/N 06-00441 ..... ---

Replacement Screens -

120 Microns Stainless Steel.....P/N 10543-1 ..... ---

74 Microns Stainless Steel.....P/N 05-03436 ..... ---

ACS GASCOLATOR INSTALLATION BRACKET

Versatile bracket of .016 stainless steel accommodates gascolators with either metal or glass bowl. When mounted as illustrated, inlet and outlet connections are on sides. When bracket is inverted, one port of gascolator faces firewall for direct routing of fuel line through firewall. Fits gascolators sold after May 1, 1989. Made in the U.S.A.

P/N 10371 ..... ---

ACS HIGH PRESSURE GASCOLATOR

New ACS high pressure gascolator. Lighter weight and simpler design than the ACS "classic" gascolator. Bailwire and attaching hardware have been eliminated. Threaded collar secures bowl to top. Tested to 40 lbs. Bowl is cadmium plated and top and collar are anodized for corrosion protection. Made in the U.S.A.

High Pressure Gascolator .....P/N 05-04248 ..... ---

Replacement Gasket 10536-1.....P/N 06-00441 ..... ---

Replacement 120 Micron Screen 10543-1..P/N 10543-1 ..... ---

Replacement 74 Micron Screen .....P/N 05-03436 ..... ---

FAA-APPROVED GASCOLATORS

CNC-machined out of 6061 aluminum for longer use. Anodized "O" ring seals for improved sealing capabilities, a bayonet tab locked bowl system. Direct replacement for factory parts. FAA-approved for many Piper, American Champion, Husky, Maule, Taylorcraft, Dynac and Cessna aircraft. Fits in existing Piper mounting brackets. Check the Aircraft Spruce website for aircraft cross-reference list or contact us for gascolator approved for your aircraft.

SA3-00

SA3-00B

SA3-10

SA3-10A

Model	Size	Part No.	Price
SA3-00	1/4 NPT - 3/8" Line - 3 oz.	05-00840	---
SA3-00B*	1/4 NPT - 3/8" Line - 3 oz.	05-02674	---
SA3-10	3/8 NPT - 1/2" Line - 4 oz.	05-02675	---
SA3-10A*	3/8 NPT - 1/2" Line - 4 oz.	05-00894	---

8130 Forms are not available for these gascolators.

GASCOLATORS FOR OUTSIDE THE U.S.

Model	Size	Part No.	Price
SA3-00	1/4 NPT - 3/8" Line - 3 oz.	05-12468	---
SA3-00B*	1/4 NPT - 3/8" Line - 3 oz.	05-12470	---
SA3-10	3/8 NPT - 1/2" Line - 4 oz.	05-12471	---
SA3-10A*	3/8 NPT - 1/2" Line - 4 oz.	05-12469	---

*** Note: This unit does not require a bracket for installation.**

PIPER GASCOLATOR GASKET

For Product Application see Piper Parts Manual for your Aircraft.

2.125 in. X 2.125 in. X 0.125 in.....P/N 462-049 ..... ---

GASCOLATOR GASKETS

Gascolator Gasket, Manufactured from fuel resistant "Buna Rubber" material.

1.2925 in	Part No.	Price
2-1/4" OD. x 1-3/4" ID x 1/16" Buna and Cork material	05-11188	---
2" OD. x 1-3/8" ID x 1/8" Buna Rubber material	05-11190	---
2-1/8" OD. x 1-1/2" ID x 1/8" Buna Rubber material	05-11189	---
2-1/4" OD. x 1-3/8" ID x 1/8" Buna Rubber material	05-11187	---
2-1/4" OD. x 1-3/8" ID x 3/16" Buna Rubber material	05-11191	---
2-1/8" OD. x 1-1/2" ID x 3/32" White Nitrile Rubber material	05-22048	---

USHER GASCOLATOR 6

Can be used on fuel injection systems up to 50 psi .Anodized inside and out to prevent corrosion. Has two 1/4" NPT ports for 3/8" fuel line, a 1/8" primer port, and a 1/8" NPT drain valve port. Mounting bracket not included. Now comes ready to mount to firewall.

Gascolator .....P/N 05-15140 ..... ---

Replacement Screen.....P/N 05-25972 ..... ---

Replacement O-ring .....P/N 05-12242 ..... ---

GATS JAR FUEL SAMPLER

The incredible GATS Jar allows a pilot to pour the fuel used in the preflight check back into the fuel tank without fear of water contamination. Also detects jet fuel in the event of inadvertent fueling of your aircraft with jet fuel.

12 oz. .....P/N 05-21250 ..... ---

16 oz. .....P/N 05-04237 ..... ---

Replacement actuator.....P/N 17-00043 ..... ---

GATS JAR BUNDLE PACKS

6 Pack ....P/N 17-00284..... --- 12 Pack....P/N 17-00285..... ---

12 Pack ..P/N 17-00286..... --- 100 Pack..P/N 17-00287..... ---

CURTIS FUEL SAMPLER CUP

This fuel sampler cup is designed for use with many popular fuel drain valves including the F391 drain valves used on many of today's productions aircraft. Wide bowl allows fuel sampling without fuel dripping onto the hands.

P/N 05-17300 ..... ---

ASA AIRCRAFT FUEL TESTING CUP

Protect yourself from fuel contamination by visually checking the fuel for water and debris. Clear cup with a reinforced steel pin that works with most aircraft. Measures 2-1/2" high x 1-3/4" diameter. Lifetime warranty.

P/N 13-02353 .....---

FUEL TESTERS

The unique snap-on probe fits all quick-drain valves, stores compactly, and reduces spillage, loss, and probe breakage. Also includes a chrome-plated screwdriver blade with both a Phillips and a slotted head.

4" Fuel Tester..... P/N 13-18463 .....---

6" Fuel Tester..... P/N 13-18464 .....---

GASOHOL TESTER

This compact fuel tester / double tip screwdriver combo measures the presence and percentage of alcohol in gasoline, and tightens errant screws.....P/N 05-03439 ..... ---

GOCHECK PREFLIGHT 6 IN 1 MULTI-TOOL

6-in-1 Tool. With space at a premium in most flight bags, this innovative device combines multiple preflight tools in one compact unit. Includes a fuel tester with strainer, stall horn tester, dipstick wiper, red/white flashlight, Phillips/flathead screwdriver and checklist reminder card ..... P/N 05-15254 .....---

MULTISUMP AVIATION FUEL TESTER

MultiSump+™ allows the pilot to sample and individually inspect fuel from each sump while a quick dump feature transfers fuel to the lower catch can thus eliminating emptying the tester after each sump.

Multisump with Fuel Strainer.....P/N 05-04653 ..... ---

Multisump without Fuel Strainer....P/N 05-15052 ..... ---

Fuel Strainer Only .....P/N 05-08097 ..... ---

MULTISUMP AVIATION FUEL STRAINER

Use with your existing Fuel Tester to remove contaminants and water from your samples during pour back.

P/N 05-08097.....

JET SUMP ™ FOR BUSINESS JETS

Provides clean sumping and inspection for Gulfstream® and other business jets. Made in USA

Features: • Meets 32oz sampling requirement for Gulfstream® jets • Compact storage with vapor containment cap • 4" extended neck reaches recessed drain valves • Allows for quick visual assessment of fuel quality • Affordable price point .....P/N 05-22946 ..... ---

FUEL TESTER CONTAINER

A polycarbonate airtight container for clean, odor free storage of a fuel tester. Can also be used to store other items like reading glasses that you want to protect from breaking. 9"x2.5"x1.75".

2.5 o.z. .....P/N 13-12408 ..... ---

PIPER DRAIN VALVE FOR PA-15/PA-17

Model	Description	Part No.	Price
22179-000	Fuel Drain Valve 3/8" NPT	05-21969	---
189-543	Fuel Drain Plastic Tubing	05-21970	---

CESSNA DRAIN VALVES

S2106-4.....P/N 06-03056 ..... ---

S2020-2.....P/N 06-00989 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PHENIX SELECT-FLO FUEL FILTERS

Phenix Select-Flo Fuel Filter: select the inlet size from -6 to -10 and the outlet size from -6 to -10 based on what your engine needs. No ORB fittings to buy in addition to the filter, the male AN is machined onto the filter caps, along with 100 micron. All filter elements in stainless steel mesh so they can be cleaned and used indefinitely. Proudly manufactured in the USA.

Description	Part No.	Price
Select-flo Filter Dash 10 In To Dash10 Out Blk / 100 Micron Element	04-03671	---
Select-flo Filter Dash 8 In To Dash 8 Out Blk / 100 Micron Element	04-03672	---
Select-flo Filter Dash 6 In To Dash 6 Out Blk / 100 Micron Element	04-03673	---

PHENIX SELECT-FLO FUEL FILTER BRACKETS

Phenix Select-Flo Fuel Filter Brackets: All filter elements in stainless steel mesh so they can be cleaned and used indefinitely. Proudly manufactured in the USA.

Description	Part No.	Price
Select-flo Filter Mounting Bracket Type A	04-03666	---
Select-flo Filter Mounting Bracket Type B	04-03667	---
Select-flo Filter Mounting Bracket Tube Mount 1-1/2"	04-03668	---
Select-flo Filter Mounting Bracket Tube Mount 1-5/8"	04-03669	---
Select-flo Filter Mounting Bracket Tube Mount 1-3/4"	04-03670	---

KING AIR FUEL FILTER DRAIN VALVE

Improved, repairable valve for thousands less than Beech!
- Improved seal design provides a long life reliable valve
- Teflon lined control conduit and stainless steel cable
- Reliable design - proven to over 10,000 cycles
- Latest Viton fuel-proof seals
- Anodized for better corrosion resistance
- Unheard of 10 Year Limited Warranty!

Consists of two components: a valve housing and a replaceable valve control plunger assembly .....P/N 05-13139 ..... ---

MICRON 10 FUEL FILTER

Length: 4.25"; Diameter: 2.0"; Flow rate: 15.3 gpm; Weight: 5 oz.; Fitting Size: use (-6) Phenix Fittings - see "Accessories" tab; Filter medium: 1.375" dia. 304 pleated SST disk; Filter Efficiency: 10 Micron; Operating Pressure: 8,000 PSIG; Drop in pressure: 1.0% Fitting Size: AN6. This filter is washable and reusable..... P/N 05-01699..... ---

FILTERS FOR ELECTRONIC FUEL INJECTION PUMPS

If you have electronic fuel injection, you should run a coarse pre-filter (FF-2, 90 micron) before the fuel pump, and a fine post filter (FF-1, 10 micron) after the fuel pump. If you are running mechanical fuel injection, you will only need the FF-2 pre-filter.

The FF-2 pre-filter is a 90 micron stainless mesh filter that will keep large debris from entering and damaging your fuel pump. The FF-1 post-filter is a 10 micron, high surface area, high pressure filter that will keep fine particulates out of your electronic fuel injectors, if so equipped.

Mechanical Injection Systems Require Only a Pre Filter

Specifications: FF-1 - Includes one 10 micron post pump filter with AN-6 fittings and mounting clamp • FF-2 - Includes one 90 micron screen pre pump filter with AN-6 fittings and mounting clamp.

Post Filter .....P/N 07-19989 ..... ---

Pre Filter.....P/N 07-19990 ..... ---

ACS FREE FLOW ONE-WAY CHECK VALVE

Prevents return fuel flow during normal operation but provides by-pass fuel feed in an emergency if the fuel pump fails. Wt. 1 oz., 2-7/8" long. Use with tube fittings for 3/8" dia. fuel line. Anodized for corrosion resistance.

P/N 10630 ..... ---

INLINE FUEL FILTER

In-line, high-capacity, translucent filter with screen. Has standard 1/4" barb inlet and outlet tubes.

P/N 05-14958 ..... ---

FUEL FILTER

In-tank type. Brass construction with fine-mesh screen. Has standard 1/4" barb inlet and outlet tubes

P/N 05-01031 ..... ---

3/8 INCH PLASTIC FILTER

Plastic in-line fuel with 3/8" inlet & outlet - metal version is 33033 with hoses and camps. Style: Fuel Filter. Height: 3.543. Outer Diameter: 1.826. Nominal Micron Rating: 30.

P/N 05-04701 ..... ---

FUEL FILTERS

For homebuilts. Used on VariEze and various gyrocopters. Rated to 10 PSI. Not recommended for fuel injected systems.

Description	Part No.	Price
1/4" Fuel Filter (Metal)	05-33031	---
3/8" Fuel Filter (Plastic)	05-04701	---
1/4" Fuel Filter (Plastic)	05-33001	---
Universal Fuel Filter Inline 1/4", 5/16", 3/8"	15-05826	---

ANDAIR FS20 SERIES FUEL SELECTOR EXTENSION KITS

Steps	Valve Model/Length	Part No.	Price
Extension Kits	FS20-1	05-15318	---
--	FS20-2	05-15319	---
--	FS20-3	05-15320	---
--	FS20-4	05-15321	---
--	FS20-5	05-15322	---
--	FS20-7	05-15323	---
--	FS20-8	05-15324	---
Extension Tubes	6"	05-15325	---
--	12"	05-15326	---
--	18"	05-15327	---
--	24"	05-15328	---
--	30"	05-15329	---
--	36"	05-15330	---

MOONEY FUEL SELECTOR ARM EXTENDER

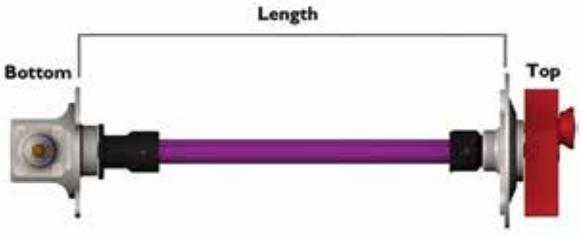
Mooney Fuel Selector Arm Extender. Extend the arm by approximately 10 inches and reach the selector valve again.

P/N 05-15255 ..... ---

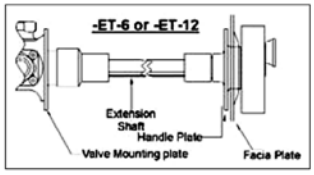
AP

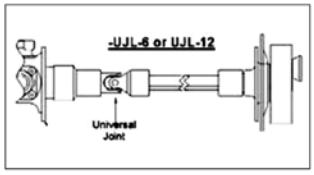
EXTENSION FUEL VALVES - GASCOLATORS

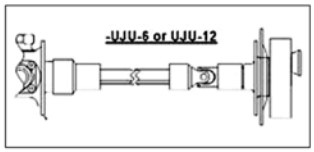
ANDAIR EXTENSION FUEL SELECTORS

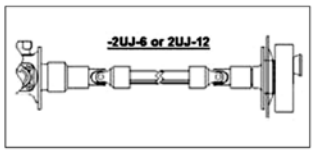


For use with any Andair valve. The kit includes everything needed to operate the valve remotely by way of a specially extruded tube. There is no riveting involved, just cut the tube down to length and fit together. To maintain the firm detent at each tank selection, there is a detent cap on the top of the valve. The special tube then fits into this. Then, so as to maintain the safety feature, where the valve cannot be inadvertently switched off, the button has been moved to the upper section. Like the standard valves, the button must be raised to switch the fuel of. The tube is available 6" or 12" long and 4 extension options are available. The extension must be ordered with the valve. (i.e. an extension cannot be retro fitted to a previously purchased valve).









Option	Size (In.)	Price	Option	Size (In.)	Price
ET	6	Call or Email for price and availability	ET	12	Call or Email for price and availability
1JL	6		1JL	12	
2JU	6		2JU	12	

E	Valve Part No.	ET	6	Length of extension tube:
		1JU	12	6 = 6" long.
		2UJ		12 = 12" long.

ET: with one universal joint on lower part of valve
UJL: with one universal joint on the upper section of the valve
UJU: with 2 universal joints.

Example:
E-FS25f5-M-ET-6 = (6"long, 1/2"Left, Main, Right, Off, Straight Ext. Valve)
E-FS20-20-D2-6M-2UJ-12 = (12"long, 3/8"duplex fuel selector extension with 2 UJs and 12" tube).

SPECIAL ENGRAVING - Andair can offer special engraving for all of the available valves. Please contact the Aircraft Spruce technical department for more information. Here are some examples:

GASCOLATOR FIREWALL FITTING

Includes mounting flange and backing plate. Mount your gascolator solidly on the firewall with this special bulkhead fitting. Simply drill a 5/8" hole through the firewall and a backing plate on the cabin side and rivet the 1-1/2" x 1/8" flange to the firewall. Connect the incoming fuel line to the AN6 male tube fitting on the cabin side. Screw the gascolator onto the 1/4" male pipe (on the engine side). Machined from mild steel (303 stainless steel).....P/N 05-00907 ..... ---

ANDAIR GASCOLATORS

Andair make Gascolators for both 3/8" and 1/2" lines. Both types have a screw locking ring that prevents the bowl from coming off, and a facility for this to be wirelocked. The bowl is internally sealed with an Viton (R) O-ring. A PTFE coated 70 micron Stainless Steel mesh is used as the filter screen. The PTFE coating helps prevent water from passing, by maintaining it as a droplet formation. A large filter area is present and wide passages have been incorporated so that the pressure loss through the Gascolators is kept to an absolute minimum. There is an 1/8 NPT hole on the bottom of the bowl so it can be drained and also one on the top of the body. This one can be used as a pressure tapping or a filtered supply to the primer pump. A selection of fittings can also be used with the GAS375 and the GAS500.

GAS375M with -6 Male Fittings.....P/N 05-29551 ..... ---
GAS375F w/ 1/4" NPT Female Fittings.....P/N 05-29552 ..... ---
GAS375B w/ Banjo Fittings.....P/N 05-29553 ..... ---
GAS500F - 3/8" NPT Female Fittings.....P/N 05-00129 ..... ---
GAS500M -has -8 Male Flare Fittings.....P/N 05-00136 ..... ---

NOTE: ADD -1 TO PART UMBER FOR REVERSE FOLLOW GASCOLATORS. EXAMPLE: 05-29551-1

Replacement o-ring for GAS375.....P/N 05-00704 ..... ---
Replacement o-ring for GAS500.....P/N 05-00706 ..... ---
Replacement screen for GAS375.....P/N 05-00707 ..... ---
Replacement screen for GAS500.....P/N 05-00708 ..... ---
Stainless Steel Drain Valve.....P/N 05-00709 ..... ---

ANDAIR CHECK VALVE

Built from aircraft grade Aluminum and anodized for corrosion protection this light-weight and compact unit is excellent. The check valve is ideal for tank vents and high pressure fuel pump bypass lines. Its extremely light weight internal shuttle operates with the slightest pressure yet the internal O-ring seals allow the unit to be used up to 50 PSI. Other qualities include break out pressure less than 1 PSI, great flow characteristics around shuttle, and bleed allows shuttle to weep off pressure in the event of a blocked line. Features AN-6 (3/8") fitting on bottom. Valve measures 5/16" dia. x 2.75" long.

Model No.	Bleed	End Fittings	Part No.	Price Ea.
CK250	No	7/16-20	05-00713	---
CK250-B	Yes	7/16-20	05-00714	---
CK375	No	9/16-18	05-00716	---
CK375-B	Yes	9/16-18	05-29555	---
CK250-H	No	1/4" hose	05-00717	---
CK250-H-B	Yes	1/4" hose	05-00718	---
CK375-H	No	3/8" hose	05-00719	---
CK375-H-B	Yes	3/8" hose	05-00721	---
CK375-M-BRP	--	--	05-14969	---

PUROLATOR AN6235 SERIES LINE FILTER ELEMENTS

- MIL-F-5504 Qualified
- Qualified for use in MS28720 and AN6234 filter assemblies.
- Operating Temperatures: -65F TO + 275F
- Element Collapse:150PSID Minimum.
- Filtration:10 Micrometers.
- Hydraulic O-ring.
- Media: micropleat(c) elements (resin impregnated cellulose)
- Bubble Test 100%

AN No.	Dimensions	Diameter	Part No.	Price
AN6235-1A	1.875"	0.859"	08-07076	---
AN6235-2A	4-11/16"	1-1/8"	08-00912	---
AN6235-3A	3.438"	0.891"	08-07104	---
AN6235-4A	4.5"	1.78"	AN6235-4A	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FUEL VALVES - DUPLEX VALVES

ANDAIR POSITIVE STOP FUEL VALVES

Andair Ltd. of England produce these superb Safety Fuel Selectors. Precision built from aircraft grade materials, with PTFE seals packed against a highly polished ball giving a very smooth action. Designed by an RV builder the Andair valve features a positive stop for the off position. A spring loaded button on the lever must be raised before the lever can be moved to the off position. This eliminates the possibility of turning the fuel off in flight, which is an inherent risk with some other designs. The lever has internal stops and detents on the left and right positions. The FS20 range has been designed for 3/8" fuel lines and the FS25 Range is for use with 1/2" lines. New to the range is the FS20-8 5-way selector valve.

FS20X1-F or FS25x1-F Model 1

FS20X2-F or FS25x2-F Model 2

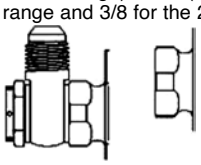
FS20X3-F or FS25x3-F Model 3

FS20X4-F or FS25x4-F Model 4

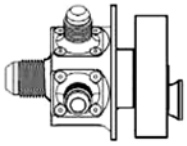
FS20X5-F or FS25x5-F Model 5

FS20x8-F Model 8

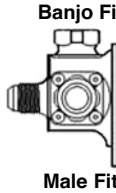
SIDE FITTINGS - The side fittings can either be -M (Male 9/16-18 for the 20 range or 3/4-16 for the 25 range) or -F (Female pipe 1/4 for the 20 range and 3/8 for the 25 range)



Female Fitting



Side view, FS20x8-M



Banjo Fitting

Male Fitting

LOWER FITTINGS ON MODELS 3, 4, 5 & 8

The Andair Range of fuel selectors is now available with choice of lower fittings for models 3,4,5 and 8. This fitting can either be -M (Male 9/16-18 for the 20 range or 3/4-16 for the 25 range) or -F (Female pipe 1/4 for the 20 range and 3/8 for the 25 rang e) or a Banjo fitting. The banjo fitting has a 360° adjustable Male 9/16-18 end for the 20 range or 3/4-16 for the 25 range.

Lower Fittings	Model	Side Fitting	Price Ea.
--	1, 2	Male or Female	CALL
Male or Female	3, 4, 5 8		CALL
Banjo	3, 4, 5 8		CALL

Lower Fittings	Model	Side Fitting	Price Ea.
--	1, 2	Male or Female	CALL
Male or Female	3, 4, 5 8		CALL
Banjo	3, 4, 5 8		CALL

ANDAIR UNIVERSAL JOINT

These Universal joints work in conjunction with our specially extruded extension rod to allow mounting of fuel valves at angle to the control level. 30° maximum angle .....P/N 05-13282 ..... ---

FS20-20-D2 DUPLEX VALVES

Used to switch the fuel in an appliction where there is a fuel injected engine that needs flow return. It allows you to pipe surplus fuel to the same tank from which it was drawn. This avoids the worry of overfilling the return tank or having an overly complicated fuel system. Engines that can benefit from this valve are Surburu, Continental, Rotax, and Diesel engines. The FS20-20-D2 has two 3/8" sections where as the new FS25-20-D2 has one 1/2" feed section and on 3/8" return section. The valves can be supplied with either male or female fittings.

FS25-20-D2 DUPLEX VALVES - New to the range is the FS25-20-D2 which has a 1/2" feed ports and 3/8" return ports, for use in larger injected engines.

Model No.	Part No.	Description	Thread	Ports	Price
FS20-20-D2-6M	05-06926	3/8" Feed & Return	1/4" Pipe	Male	---
FS20-20-D2-6F	05-06927	3/8" Feed & Return	9/16-18a	Female	---
FS25-20-D2-6F	05-29562	1/2" Feed, 3/8" Return	1/4,3/8"pipe	Female	---
FS25-20-D2-6M	05-29563	1/2" Feed, 3/8" Return	9/16-18, 3/4-16	Male	---

FS22D2 DUPLEX VALVE

This new duplex valve from Andair has been designed for the use with low flow rate fuel and vapor return systems. An example being the Turbo charged Rotax 912S. Base on the popular FS20x2, the FS22 retains the key features of small size and light weight. The return line valve usesour a new style PTFE disc, operated via the main ball valve allowing the return fuel to flow back to the tank from whicn it ws drawn. The FS22 is availab le in two forms, the FS22-2PD with its 1/8" female pipe fittings pointing downward (see image) or the FS22-2PS (sideways pointing fittings). Both valves include all of the safety features that appear in he full range of Andair Fuel Selectors.

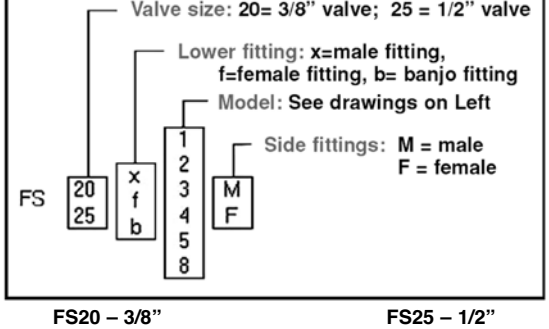
Model No.	Part No.	Description	Thread	Ports	Price
FS22-D2-6F-PS	05-29564	3/8"Feed,1/8"Return	1/4,1/8"Pipe	Female	---
FS22-D2-6M-PS	05-29566	3/8"Feed,1/8"Return	9/16-18	Male	---
FS22-D2-6F-PD	05-29567	3/8"Feed,1/8"Return	1/4,1/8"Pipe	Female	---
FS22-D2-6M-PD	05-29568	3/8"Feed,1/8"Return	9/16-18	Male	---

ANDAIR F520 FUEL VALVES

The FS20x4 Fuel Selector is designed for high wing aircraft where it is possible to feed from both tanks simultaneously. Porting for the both position is done internally so there is no need to T the two tanks together. There is a 90 degree action between each tank selection, and the safety feature where the red button on the lever has to be raised to switch off the fuel. On the FS20x4 there are 3 ports. The lower port is the outlet to the engine and can be Male AN-6, Female 1/4NPT or a Banjo fitting which is a 360 degree adjustable fitting with a male AN-6 end. One of the great features of this unit is that when the selector is in the OFF position, there is no cross feed between each tank. So if you have your aeroplane parked on a slope, or if one tank is fuller than the other, no cross-feed will occur.

Part No.	Model	Description/Ports	Price
05-01023	FS20X1M	On/off (90 Degree Action Shut Off Valve) Male	---
05-29506	FS20X1F	On/off (90 Degree Action Shut Off Valve) Female	---
05-29505	FS20X2F	Left/right/off (90 Degrees Between Left And Right) Female	---
05-29507	FS20X3F	Left/right/off (180 Degrees Between Left And Right) Female	---
05-02635	FS20X4M	Left/both/right/off (90 Degrees Action Between Each Position) Male	---
05-29508	FS20X4F	Left/both/right/off (90 Degrees Action Between Each Position) Female	---
05-01419	FS20B4M	Left/both/right/off (90 Degrees Action Between Each Position) Banjo/male	---
05-01432	FS20F4F	Left/both/right/off (90 Degrees Action Between Each Position) Female/female	---
05-29509	FS20X5F	Left/main/right/off (90 Degrees Action Between Each Position) Female	---
05-13056	FS20X7-T	Left/right/off (90 Degrees Between Left And Right) Elbow Male/elbow Male/male	---

PLEASE ORDER USING THE FOLLOWING PART NUMBERS:



FS20 – 3/8" **FS25 – 1/2"**

AP

FUEL VALVES

HOMEBUILDERS SHUT-OFF VALVES

A full-flow plug valve with solid bottom and integral mounting bracket. Brass body and plug. Floating stem with O-ring prevents leakage. Packed with synthetic grease which resists gasoline and solvents. Indicating click on 3-port and 4-port valve (CN models) tells when handle is in full open or closed position. Tested to 30 PSI. **Not FAA approved.**

Part No.	Model No.	Imperial Equiv.	Valve Type	Pipe Thread	Price
6749	210-CL	108HD-04	3-Port*	1/4" Female x 1/4" Female	---
05-01032	210-CN	108HD-06	3-Port*	3/8" Female x 3/8" Female	---
05-01033	200-CL	114-HD-04	4-Port**	1/4" Female x 1/4" Female	---
05-01034	200-CN	114HD-06	4-Port**	3/8" Female x 3/8" Female	---

***For 2 tanks. Flow is from either side to branch.**
****For 3 tanks. Flow is from any side to bottom outlet.**
Note: Order valve with 1/4" pipe threads for 3/8" dia. fuel line. Order valve with 3/8" pipe threads for 1/2" dia. fuel line. These pipe thread sizes are the ones normally associated with the indicated tube sizes.

HOMEBUILDERS WEATHERHEAD FUEL VALVE HANDLE

This unique fuel valve handle is designed to provide a positive feel and makes it easy to determine the current tank selection. It fits the popular Homebuilders and weatherhead fuel valves and is made from billet 6061T6 aluminum bar stock. They are milled, not cast. Handles are hand deburred, red anodized, and laser etched.

P/N 05-07184 ..... ---

FUEL VALVES FOR CESSNA 180 / 182 / 190 / 195

Improved corrosion resistance: McFarlane's new valves are totally anodized where the original valves were Alodine conversion coated. This change drastically improves the surface durability, wear resistance, and corrosion resistance of all the components, and they will stay pretty too! Corrosion protection is important since the valves are at the lowest point in the fuel system without any upstream water separation or contaminate screening. We have also eliminated the brass bushing that corrodes the cam.

Improved O-ring retention: Modern machining processes lets us precision machine the O-ring capture cavity. The original valve O-rings were retained by staking (stamp forming) the housing. This process was inconsistent at best and distressed and weakened the surrounding aluminum structure.

More balanced fuel flow: Yesterday's manual machining process of the original valves were often inconsistent enough to let one port flow more fuel than needed while the other port might flow a very marginal amount of fuel. The new McFarlane valve is computer machined for a perfect balance of fuel flow.

Fully Tested: You can rest assured that if it's a new McFarlane valve or a valve repaired by McFarlane, it will be pressure, functional, and flow tested to perform to the highest standards..P/N 05-27387 ..... ---

Aircraft	McFarlane P/N	Part No.	Price
180 / 182 / 195	MC0311070-1	05-27387	---
190 / 195	MC0311070	05-27432	---

FUEL SELECTOR VALVE ASSEMBLY FOR CESSNA 170 / 172 / 175

Mcfarlane MC0513120-5 Fuel Selector Valve Assembly .....P/N 05-22374 ..... ---

CESSNA 182 FUEL SELECTOR VALVE

McFarlane MC0716613-1 Fuel Selector Valve Assembly, equivalent to OEM 0716613-1 and 0716613-1S .....P/N 05-27273 ..... ---

SEE WEBSITE FOR AIRCRAFT ELIGIBILITY

FUEL SELECTOR VALVE GASKET FOR CESSNAS

Cork/rubber gaskets meets tough government standards for fuel resistance. Model 0513125 Fits many Cessna 172/175/177/210 models. See our website for application chart.

P/N 01-01353 ..... ---

HIGH-PRESSURE BRASS BALL VALVE

Great for use in tight spaces, suitable for high-pressure applications. Connections are NPT. Body is brass, ball is nickel-plated brass, seats are PTFE, and seal is fluoroelastomer. Valves have unrestricted flow (full port).

Specifications:
Female x Female • Pipe Size: 1/4" • End-to-End Lg.: 1 15/16" • Lever Handle • Max. Pressure for Water, Oil, and Inert Gas: 1000 psi @ 70°F • Temp. Range: -40° to +300°F • Vacuum Rating: 29" Hg.

P/N 05-06885 ..... ---

WEATHERHEAD FUEL SHUT-OFF VALVE

3-way Weatherhead valves, with 1/4' female pipe ports feature a Delrin-spool design for smooth operation. Handle mounted on 1-1/4" long shaft. Not FAA approved.

Model No. 6749 3-Port Valve - Flow is from either side to middle port...P/N 6749 ..... ---

Model No. 6747 4-Port Valve - Flow is from any horizontal port to bottom port.

P/N 6747 ..... ---

MINIATURE FUEL VALVES

The lightest (4 oz.) smallest (1.5" long), easiest to operate ball type (not plug) on-off fuel valve available. Light operating force makes it ideal for remote operation. Not FAA approved. Forged brass with 1/4", 3/8", or 1/2" female pipe ends.

Thread	Length	Weight	Part Number	Price
1/4" NPT valve	1-13/16"	0.39 lbs	05-12627	---
3/8" NPT valve	1-13/16"	0.39 lbs	05-23330	---
1/2" NPT valve	2-7/16"	0.59 lbs	05-01026	---

J-3 FUEL VALVE

This J-3 fuel valve includes a steel handle for use with the original pushpull shut off control. This valve is a significant improvement over the original brass style fuel valve. The new valve has a stainless steel ball seated in an inert composite seat. This improved design eliminates the stiff operation and leaking around the shaft that the original design was prone to. PMA approved. Uses 1/4" NPT fittings.

P/N 05-00848 ..... ---

CESSNA 150 - 150L FUEL VALVE

McFarlane 0411803-6S valve for fuel and repaired with core- taper style.

Additional core charge added to purchase at time of checkout .....P/N 05-19276 ..... ---

CESSNA 172 FUEL SELECTOR VALVE

McFarlane MC0513120-8 Fuel Selector Valve Assembly, equivalent to OEM 0513120-8.

P/N 05-27271 ..... ---

SEE WEBSITE FOR AIRCRAFT ELIGIBILITY

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SPRL FUEL VALVES

A three/four way fuel selector offering left-off-right and both if required. There are 90 degrees between selections and the absence of a lower fitting reduces the depth required. The lift and turn selector is instinctive, secure, and easier to use than the complex 'lift button' type. The locking detents avoid accidental movements. The fixings match most installations, and the internal ports prevent cross feeds, unless 'selected to 'Both'. Male AN fittings enable you to plumb straight into the aeroplane system with no extra fittings to buy. Suitable for all current fuels. For experimental aircraft only. Fittings must be purchased separately.

The new V4 offers a full flow return added to the existing valve base. Ceramic disks and valve simplicity promise a long life with the ceramics. Please note that the accessories listed below are the only compatible accessories; other standard accessories will not fit these valves.

SPRL V1 3 way valve ..... P/N 05-04450 ..... ---
SPRL V1 4 way valve ..... P/N 05-04451 ..... ---
SPRL V4 3 way valve ..... P/N 05-08366 ..... ---
SPRL V1-3P-C way valve w/ conforming selector
P/N 05-11464 ..... ---
SPRL V1-4P-C way valve w/ conforming selector.....
P/N 05-11465 ..... ---
SPRL V3-3P-C Duplex valve with conforming selector.....
P/N 05-11466 ..... ---
SPRL V3-4P-C Duplex valve with conforming selector.....
P/N 05-11467 ..... ---

ACCESSORIES

Must purchase these parts. Standard AN do not fit the valves.

AN6 Male Fittings (pk of 3) ..... P/N 05-04452 ..... ---
AN8 Male Fittings (pk of 3) ..... P/N 05-04453 ..... ---
NPT 1/4" Female Fittings(pk of 3) ..... P/N 05-04454 ..... ---
NPT 3/8" Female Fittings (pk of 3) ..... P/N 05-04455 ..... ---
SPRL On/Off V2 Valve ..... P/N 05-06468 ..... ---
SPRL V3-3P Duplex Valve ..... P/N 05-06469 ..... ---
SPRL V3-4P Duplex Valve ..... P/N 05-06470 ..... ---

SPRL V6 VALVE FOR ROTAX

V6 is a miniature valve aimed at the Rotax market with 6mm pipes in mind. Weight 127 grams **** C means FAR23 conforming selector. Can be installed inside 2-1/4" width having parallel inputs from the rear tapped 10mm to use standard Rotax banjos or straight fittings.

Model	Specifications	Part No.	Price
V6 54-3-C	V6 with a small 54mm face plate. 3 way, L/R/Off	05-14988	---
V6-54-4-C	V6 with a small 54mm face plate. 4 way, L/Both/R/Off	05-14989	---
V6-70-3-C	V6 with 70mm face plate. 3 way, L/R/Off	05-14992	---
V6-70-4-C	V6 with 70mm face plate. 4 way, L/Both/R/Off	05-14993	---

NEWTON V9-4 WAY VALVE

SPRL V9-4 duplex valve with ceramic disc valves for feed and return.

It is tapped 1/4"nps feed and return and will take standard npt fittings and our -6 banjos.

V9-4 can carry the small selector plate 54mm in diameter or the standard plate @70mm interchangeable with other valves and other types.

V9-4 is perfect for any traditional return system but Rotax ask for over-pressure protection when the fuel is turned off and may be heated after shut down.

The SPRL Valves, as designed, have a very nice 'feel' and are logical in use, however, there is a requirement in FAR 23 whereby the fuel valve must be turned from OFF to an ON selection simply by turning it, i.e. it should not have to be lifted up, pushed down etc, and it should also not be possible to turn it from an ON position to OFF without a dent.

P/N 05-21697 ..... ---

NEWTON SPRL FITTING 14 MM X 3 IN

For use with SPRL fuel valves V1, V2, and V3. 14mm X 3" fitting. ..... P/N 05-12638 ..... ---

REMOTE FUEL VALVE DRIVE

A remote drive has the selector conveniently at hand while the valve and pipes are on the bottom of the fuselage or even on the front of the firewall. We include a flexible universal drive joint to accept small errors in alignment. The standard drive is 12" long but drive shafts up to 6 feet are available ..... P/N 05-06501 ..... ---

NEWTON BANJO FITTING SETS

The fittings enabled you to plumb straight into the aeroplane system with no extra fittings to buy. The lightweight alloy construction is anodized for protection; the Viton 0 ring seals are suitable for all current fuels. For experimental aircraft only. Fittings must be purchased separately; if needed, 3 AN-6 fittings come with the valve.

Fittings: • AN8 Male NPT 1/4" OR 3/8" Female and banjo fittings are available, all seal to the valve with O ring system Standard AN fittings cannot mate directly to the valve.

Specifications: • Banjos Size: 1/4, 5/16, 3/8 • Banjo Bolts: 2x14mm • NPT Felmale: 1/4"

1/4" Fitting Set ..... P/N 05-06471 ..... ---
5/16" Fitting Set ..... P/N 05-06472 ..... ---
3/8" Fitting Set ..... P/N 05-06473 ..... ---
1/4" Large Fitting Set ..... P/N 05-06474 ..... ---

PIPER PA-28 FUEL SELECTOR VALVE

OEM Piper fuel selector valve for PA-28 series aircraft

P/N 05-19178 ..... ---

PIPER AEROSTAR FUEL SELECTOR KNOBS

The difference from the OEM equipment is the readily-visible white indication line on each knob. The white line matches up with each selection line on the panel so you can easily view the fuel selection position at a glance, even in poor lighting conditions. And these knobs will never slip on the boss. A bit of peace of mind in high workload flight conditions. Package of 2.

P/N 05-14951 ..... ---

EXTENDED FUEL VALVE DRIVE

The standard drive is 12" long but drive shafts up to 6 feet are available. The universal joint is modestly priced as it is not new, but for this usage, 'new, surplus' is ideal. The drive tubes can be cut to any required length and simply push together. Price per foot. 6' shipping limit. Note: Special order lengths available upon request.

P/N 05-06557 ..... ---

ALLEN PREMIUM FUEL SHUT-OFF VALVES

These premium fuel valves are recommended by Rutan Aircraft as the best fuel valves they have seen. They are a direct, bolt-in replacement for Weatherhead and other fuel valves. They turn smoothly and freely with a very positive spring loaded ball detent system which lets you feel the left right and off positions. Manufactured of anodized aluminum. Handle is not furnished with valve. Available in 3 models. Model GS122 valve originally recommended for Long-EZ. Not FAA approved. For experimental aircraft only.

	Model 6S122 P/N 05-29500	Model 6S1000 P/N 05-29515	Model 6S1001 P/N 05-29525
Handle	No	No	No
Ports	3	4	3
Ports Configuration	3 x 1/4-18 NPT	MS33649-06	MS33649-06
Handle Positions	4	4	4
Ports Open			
Position 1	All Closed	1 & 4	C & A
Position 2	A & C	2 & 4	C, A & B
Position 3	All Closed	3 & 4	C & B
Position 4	B & C	All Closed	All Closed
Price Each	---	---	---

HANDLE FOR ALLEN FUEL VALVES

This aluminum handle is specially machined to fit the Allen fuel valves above. . P/N 05-01915 ..... ---

EXTENDED HANDLE SHAFT FOR ALLEN FUEL VALVES

Used to make an extended handle shaft for the Allen fuel valves. The handle extension can be made as long as desired. ..... P/N 05-01916 ..... ---

AP

FUEL FLOW VALVE

Designed for tank installation. Similar to above but without built-in filter. 90° rotation for ON-OFF. Has standard 1/4" barb outlet tube.

P/N 05-01041 ..... ---

FUEL FLOW VALVE

Twin-tank fuel selector valve. 3 positions: LEFT-OFF-RIGHT. LEFT and RIGHT positions are 90° either side of OFF. Panel mount. This unit if the handle is on the top is: • 2" Top to Bottom • 2-7/8" From Side to Side • Requires a 9/16" Diameter Hole in the Panel Uses a 1/4" ID Fuel Line • Has a 1/4" Turn Right to Left or to the Off Position.....P/N 05-01042 ..... ---

FUEL FLOW VALVE

Panel mounted fuel on-off.

P/N 05-01043 ..... ---

FUEL TANK VALVE 90 DEGREE WITH GROMMET

Standard replacement valve and grommet for plastic or Quicksilver type fuel tanks. Right angle valve shut-off with a 1/4 turn of the handle. Requires 33/64" hole in tank. Barb end accepts any 1/4" i.d. fuel line. Supplied with Grommet. Weight 2 oz.

P/N 15-05334 ..... ---

BANJO FITTING

This can be rotated through 360° then tightened and safety locked. Excellent for applications where space was limited. It can really be described as an adjustable 90° elbow fitting.....P/N 05-29565 .....

FUEL FLOW ELBOW

Bushed 90° tank fitting with standard 1/4" barb outlet. Requires Rubber Bushing P/N 05-01039.

P/N 05-01045 ..... ---

90 DEGREE FUEL TANK ACCESS ELBOW

Bushed 90° tank fitting with standard 1/4" barb outlet and 1/4" barb in the tank Requires Rubber Bushing (P/N 05-01039) .....P/N 04-02163 ..... ---

RUBBER BUSHING

Required for installation of Fuel Flow Elbow described above .....P/N 05-01039 ..... ---

05-01035

05-01036

05-01037

05-01038

QUICK-DISCONNECT FUEL LINE FITTINGS

Complete sets are furnished with both male and female units. Available in both panel mount (left) and in-line (center) styles, with or without internal automatic fuel shut-off. (1/4" tubing).The O-rings are made of Viton Synthetic rubber which is compatible with alcohol based fuels.

Excluding P/N: 05-01038 (Buna-N Rubber)

In-line with shut-off .....P/N 05-01035 ..... ---
In-line without shut-off .....P/N 05-01036 ..... ---
Panel mount with shut-off.....P/N 05-01037 ..... ---
Panel mount without shut-off...P/N 05-01038 ..... ---

PRIMER BULB

Install between fuel tank and engine. A few squeezes prime your engine for easy starting.

Primer Bulb 1/4" Tube Fit - Lg. (7" x 2") .....P/N 05-03690 ..... ---

PRIMER KIT

Everything you need to add a plunger-type primer system to your aircraft. The kit includes the plunger, a reducer "T" fitting, 1/8" barb "T" fitting, and 10 feet of 1/8" urethane fuel line.

P/N 05-01047 ..... ---

ACS PRIMER

Formerly manufactured by Gerdes Products, this primer has an anodized, all aluminum body and an engraved aluminum knob. The inlet and outlet ports are located on the sides of the pump and both are 1/8" pipe thread. Overall length is 3-5/8" and weight is 3.5 oz. New manufacture. Current inlet and outlet locations were changed from original design on 10-27-16. Made in USA. **Note**: 2 O-Rings are used per primer. For overhaul, customer will need quantity 2 of 05-19920. See Accessories.

P/N 05-19920 ..... ---
Replacement O-Ring .....P/N 05-11936 ..... ---

MCFARLANE FUEL PRIMER

• Fuel Primer for Cessna Aircraft • FAA-PMA approved for Cessna 150 thru 337 models

Features:

• Improved seal design for consistent operation • Added features for smoother actuation and wear resistance .....P/N 05-27388 ..... ---

SEE WEBSITE FOR AIRCRAFT ELIGIBILITY

ELECTRIC SOLENOID ENGINE PRIMER VALVE

These normally closed 2-way valves are direct acting and have only two moving parts, a viton plunger and stainless steel spring. Can be installed in any position and are easy to inspect without removing from the line. Pipe size is 1/8" NPT. Orifice dia. 1/8". Wt. 5 oz. #1 port is out, #2 port is in. Will handle max. PSI of 60.

Note: Not approved for aircraft usage

Mounting Bracket - A universal stainless steel mounting bracket for the 1/8" NPT valves may be ordered separately. The mounting bracket can be assembled to the valve body utilizing the body mounting holes

2V Solenoid VLV 20CC02PV4B2A .....P/N 05-04368 ..... ---
24V Solenoid VLV 20CC02PV4B2B .....P/N 05-04369 ..... ---
Solenoid Mounting Bracket 4K007.....P/N 05-04370 ..... ---

PRIMER OVERHAUL KIT

Restoring primer pump operation - The kit is replaces the worn O-rings (2) on the primer pump used on non-fuel injected engine installations. The primer seals frequently are not re-lubricated until someone complains the primer isn't working or the engine is hard starting. This is most evident by the pump being hard or stiff to operate. Generally speaking, by the time the pump stops performing, the seals are worn (to the point that lube is of little value) and must be replaced. The kit contains the two O-rings, a packet of Seal Lube, and detailed instructions.

P/N 05-03637 ..... ---

PRIMER LINE

Polyurethane tubing, may ship in either translucent pink or clear in color. 1/8" ID. For primer systems. Connects engine pulse outlet to fuel pump pulse inlet.

P/N 05-01050 .....**---/ft.**

PULSE LINE

Connects engine pulse outlet to fuel pump pulse inlet. Outside Diameter: 3/8". Inside Diameter: 1/4". Thickness of the Wall: 3/32"

P/N 05-01063 .....**---/ft.**

FUEL LINE SPLITTERS/JOINERS

Perfect for feeding from 2 tanks, or for feeding two carburetors from 1 tank. All have standard barbed ends. Made of Delrin.

"T" type, 1/4" .....P/N 05-01051 ..... ---
"Y" type, 1/4" .....P/N 05-01052 ..... ---
"T" type, 1/8" .....P/N 05-01053 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

RESERVOIR TANKS – FUNNELS

FUEL FILTER FUNNELS

05-00026 05-01054 05-01055 05-01371

Mr. Funnel® Fuel Filters are simply amazing. Dirty fuel in.... pure fuel out. It's that easy.

The specially designed filter removes water and dirt from gas, even 2-stroke mixtures. Ethanol attracts water more than regular gasoline. Never before has a fuel filter been more important.

Dirt and water are practically unavoidable in stored fuel, causing microbial growth, corrosive acids, electrolysis and rust. These contaminants can plug filters, corrode components, decrease efficient combustion and cause engine shutdown or system failure.

When fuel is poured through the Fuel Filter Funnel, water and debris will not pass through the filter's fluoropolymer-coated stainless steel filter. Only filtered fuel flows through to your engine, improving its efficiency, durability, and proper operation. The sump area collects the deflected water and debris for proper disposal. The Fuel Filter Funnel will filter gasoline, diesel, heating oil, kerosene and 2-cycle mixed gas.

The Fuel Filter Funnel is a heavy-duty, anti-static, and fast flow funnel with built-in filter technology.

Lawn mowers, tractors weed trimmer/blowers, dirt bikes/ATVs, boats, even airplanes... will have longer useful lives if owners filter their fuel!

Part No.	Height	Diameter	Flow Rate	Price
05-00026	6.00"	3.5"	2.7 gpm	---
05-01054	8.75"	5.5"	3.9 gpm	---
05-01055	10.00"	8.5"	5.0 gpm	---
05-01371	10.00"	8.5"	12-15 gpm	---

OIL INJECTION / WATER OVERFLOW RESERVOIRS

15-06828 15-06830 15-06936 15-04841

High density polyethylene tanks; ideal for Oil Injection Reservoir or Coolant/Water Overflow. Translucent white color easily shows fluid level. Tank is blown molded with a 1/4" thick seamless construction and includes rugged mounting tabs that mount to any flat surface. Includes a threaded 2-1/4" vented cap with tether to prevent loss. Sealed tank without drain, bottom access is easy for either push in fittings or threaded bulkheads with plenty of access thru large cap opening.

1 Quart: 7.74" high x 6.2" wide x 1/4" thick. Weight 10 oz. **Includes 1/4" barb spigot molded on bottom** ..... P/N 15-06828 ..... ---

1.5 Quart: 7.74" high x 5.9" wide x 1/4" thick. Weight 12 oz.
P/N 15-06830 ..... ---

2 Quart: 5" high x 6" wide x 1/4" thick. Weight 8 oz.
P/N 15-06936 ..... ---

4 Quart: 8-1/2" high x 6" wide x 1/4" thick. Weight 20 oz.
P/N 15-04841 ..... ---

Replacement 2-1/4" Vented, Black, Nylon Cap.
P/N 15-06936-1 ..... ---

ORDER ONLINE!

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• 100,000 Parts!
• 24 Hour Access!
• Fast, Easy Navigation!

BAYONET FUEL CAPS AND FILLER NECKS

Locking bayonet type cap with gasket, fastens to filler neck with safety chain. Externally threaded to mate with tank flange. 1.5" dia. filler hole, 2.25" diameter at threaded base, 1-3/8" neck length. Complete with aluminum tank flange designed for welding to aluminum tanks. Inner surface threaded to receive filler neck. Not compatible with auto gas.

Complete Set with Unvented Cap ..... P/N 05-17800 ..... ---
Complete Set with Vented Cap ..... P/N 05-17900 ..... ---
Aluminum Tank Flange ..... P/N 05-01056 ..... ---
Cap Only (unvented) ..... P/N 05-01057 ..... ---
Cap Only (vented) ..... P/N 05-01058 ..... ---
Gasket for above Caps ..... P/N 05-01059 ..... ---
Filler Neck ..... P/N 05-01060 ..... ---

ACS 10700 FLUSH FUEL CAP

The unvented flush fuel cap operates with a lift and turn lever. This cap has a 3" opening for easy refueling. Cap & adapter ring are anodized "clear" for corrosion resistance. Cap is fastened to adapter ring with safety chain. Made in the U.S.A.

10700 Flush Fuel Cap ..... P/N 05-04702 ..... ---
Replacement O-Ring 10700 CAP ..... P/N 05-04703 ..... ---

OIL / WATER RESERVOIR TANK

Constructed of high density polyethylene, this blow molded multi-purpose tank offers excellent durability and resistance to most chemical and fluids. All sizes nominal. Height includes neck & fittings. Width includes mounting tabs. Max working temperature is 180-deg F and max working pressure is 5 PSI.

Features: • Blow molded seamless wall construction • Height with neck: 6.67" • Some tanks have rugged mounting tabs with slots • Tanks are UV resistant, accessories are not • 100% leak tested prior to shipment • Do not meet CARB/EPA requirements; not for fuel • Maximum pressure: 5 psi • Maximum temperature: 180°F

• (2.25" Neck) ..... P/N 15-08320 ..... ---

SUPER FUNNEL 3 PACK

FloTool's Super Multi-Purpose Funnel is perfect for transmissions, oil, and other engine fluids. FloTool introduces this new 3-piece funnel set that will make all of your fluid application processes a breeze. These three very different funnels will ensure that you have the tool to get the job done right.

P/N 12-06228 ..... ---

AP

FUEL CAPS

FUEL SELECTOR PLATE FOR LATER CESSNA 170'S &172'S

Before

After

This fuel selector plate is billet machined and anodized, with the text engraved on the plate. It is an efficient one piece design which is easy to install and factory guaranteed. FAA/PMA approved.

Cessna 172 - 37 Gals ..... P/N 05-00227 ..... ---
Cessna 170 - 37 Gals ..... P/N 05-00899 ..... ---
Cessna 172 - 36 Gals ..... P/N 05-00901 ..... ---
Cessna 180 - 55 Gals ..... P/N 05-00902 ..... ---
Cessna 180 - 60 Gals ..... P/N 05-00903 ..... ---
Cessna 180 - 79 Gals ..... P/N 05-00904 ..... ---
Cessna 172 - 84 Gals ..... P/N 05-00905 ..... ---
Cessna 182 - 55 Gals ..... P/N 05-00906 ..... ---

ANDAIR LOCKING FUEL CAP

This Locking Fuel Cap can be installed to RV wing tanks, crafted with a smart elegant design, is lockable with completely random key generation, comes with 2 keys, custom engraving upon request, and has Viton O-ring seal.

P/N 05-08037 ..... ---
O-Ring For Locking Fuel Cap LFC/RV .....P/N 05-08037-1 ..... ---

THERMOS STYLE PRESSURE FUEL CAPS

Pressure fuel caps are recommended for aerobatic installations. These caps are made with Buna-Nitrile gaskets for fuel resistance. These caps are non-vented for gravity fuel systems. It is highly recommended that a #40 (3/32") drill is used to drill a vent hole through the lower base plate and stud assembly using a drill press.

Part No.	Diameter (I.D.)	Height	Price Each
05-18400	2"	1-3/16"	---
05-18402	2-1/2"	1-3/16"	---

Aluminum weldable adapter neck for use with 2" cap illustrated.
3" Length .....P/N 10367-3 ..... ---
6" Length .....P/N 10367-6 ..... ---

FUEL CAP O-RINGS

NITRILE

Fuel Cap	Mfg. Part No.	Part Number	Size	Price
Shaw 431/531	MS29513-338	MS29513-338	Large	---
Shaw 431/ 531/416	MS29513-010	05-00107	Small	---
Shaw 416	MS29513-232	MS29513-232	Large	---
GABB 37810	MS29513-339	MS29513-339	Large	---
GABB 37810	MS29513-110	05-00111	Small	---

FLOUROSILICONE

Shaw 431/531	M25988-1-338	04-03827	Large	---
Shaw 431/531	M25988-1-010	05-12763	Small	---
Shaw 416	M25988-1-232	04-03826	Large	---
Shaw 416	M25988-3-010	04-03829	Small	---
GABB 37810	M25988-1-339	04-03828	Large	---
GABB 37810	M25988-1-110	04-03825	Small	---

GAS TANK CAP GASKETS

Part No.	Description	Size	Price Ea.
05-18500	Piper	3" OD, 2" ID	---
05-18505	Cessna	2-1/4" OD, 1-3/8" ID	---

USHER FLUSH FUEL CAPS

The UD-3 flush fuel cap assembly is an unvented cap similar in design to the #5 style cap. The aluminum mounting ring has a 2" dia. opening and an overall dia. of 3-3/4". It may be riveted, bolted or molded to the tank. It is currently used on many popular homebuilts such as the RV's, Lancair, Velocity & White Lightning. Specify flat or contoured adapter.

UD-3 with Flat Adapter.....P/N 05-01061 ..... ---
UD-3 with Contoured Adapter .....P/N 05-01062 ..... ---
UD-3-C Fuel Cap Only .....P/N 05-15373 ..... ---
UD-3 Gas Cap.....P/N 05-27366 ..... ---
Usher O-Ring 2-325 Large .....P/N 05-02146 ..... ---
Usher O-Ring 2-012 Small .....P/N 05-02147 ..... ---

ACS TWIST-TO LOCK FLUSH FUEL CAP

The ACS Twist-To-Lock Flush Fuel Cap Assy is machined from 6061 aluminum billet. The cap is available in vented and non-vented configurations. The sealing element for the cap is an easily replaceable viton O-ring. The bottom of the cap is secured to the bottom of the ring by a safety chain to prevent loss of the cap during flight.

Complete Set (non-vented) .....P/N 10600 ..... ---
Complete Set (vented) .....P/N 10610 ..... ---
Replacement "O"Ring.....P/N 10609 ..... ---

ACS FLUSH FUEL CAPS

This latest modification of the ACS Flush Fuel Cap (unvented) utilizes a Viton O-Ring as the sealing element between the cap and mounting ring. Ring may be welded, riveted, bolted or molded to the tank. The bottom of the cap is secured to the bottom of the ring by a safety chain to prevent loss of the cap in flight. Mounting ring flange is 1/8" thick. Ring opening is 2-5/8" dia. Overall diameter 4-3/8".

Complete Set (New-Style Cap w/Mounting Ring)
P/N 05-01390 ..... ---
New Style Cap Only.....P/N 05-01391 ..... ---
Replacement Viton O-ring (for New-Style Cap Only)
P/N 05-01392 ..... ---

MARSH BROTHERS AVIATION FUEL CAP WASHERS

Avoid the hassle and difficulty of opening and closing fuel caps with tight hard to move locking tabs. The following kit contains two Fuel Cap Washers made from a durable thermoplastic polymer with inherent self-lubricating properties.

Single.....P/N 05-22216 ..... ---
2-Pack .....P/N 05-22215 ..... ---

PIPER FAA / PMA

FUEL CAPS

Application	Description	Part No.	Price
PA-23 - s/n - 23-1 thru 23-1182 PA-23-160 - 23-1177 thru 23-2046 Replaces OEM 17672, 2"dia.	PA-23 2" Dia. **Pictured Left**	05-06466	---
PA23-235 (s/n 27-1 thru 27-4815) and PA23-250 (s/n 27-4816 thru 27-7554168) Replaces OEM 16097, 2-3/8" dia	PA-23 2-3/8" Dia. **Pictured Right**	05-04161	---

FUEL CAP FILLER NECK

Aluminum filler neck 3751.
P/N 05-29072 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

NEWTON FUEL CAPS

AERO FUEL CAPS - ALUMINUM

05-00045

05-28651

05-28652

05-28653

These English fuel caps are used on most of the worlds super cars and bikes, and some series production aero planes. They are beautifully made in forged and bright anodized aluminum. The high precision and easy to operate mechanism is very secure and non vented. They are designed to keep the fuel in and the water out. The lock is there to ensure that your tank is free from contaminants. Aero caps are used on Adam, CAP, Cirrus, Diamond, Lancair Columbia, Lancair kits, Nemesis, Vans, Velocity and many more aircraft. Cap assemblies come complete with cap, gasket, and flanges as ordered. Two keys come with the locking version. Fixing can be by rivet, bolt, weld or glass in as appropriate. These are flush caps of outstanding quality which are ideal for virtually any homebuilt aircraft. Order the attach ring separately as needed, see accessories.

The 300 Series: 3-3/4" OD opening 1-3/4", 6 hole 3" pcd. A37 fits 2" and 2.25" Hoses.

The A512 & A508 Series: 3" entry / 5.5" OD. Feature special surface seal to avoid water/ice ingress. For Avtur Jet and diesel fuels.

Series	Description	Part No.	Price
A3	A3L Locking Cap 6-hole	05-21999	---
A3	A3NS Non-Locking 6-hole	05-22000	---
A36	A36L Locking Cap Assy. 6-hole	05-28651	---
A36	A36LFF Locking Cap Assy. Glass in	05-28652	---
A36	A36S Non-Locking Assy. 6-hole	05-28656	---
A36	A36SFF Non-Locking Flush Glass in	05-28658	---
A37	A37L Locking Cap+ Hose Fitting 6 hole	05-28653	---
A37	A37LFF Locking Cap Flush Glass in	05-28654	---
A37	A37S Non-Locking+ Hose Fitting 6-hole	05-28659	---
A30LR	Aero 300 Lock Fuel Cap w/Rivet Flange	05-26740	---
A30LS	Aero 300 Non-Locking Fuel Cap	05-26741	---
A512L	A512L 3" Cap, Locking - 12 hole	05-00045	---
A512FF	A508L 3" Cap, Locking - 8 hole	05-04538	---
A512FF	A512FF Locking (Glass-In) Cap	05-02650	---
Replacement Neck Flange for 05-28666 Cap		05-11451	---

NEWTON AERO 200 FUEL CAP

The all-metal construction of the Aero 200 Fuel Cap combines strength and lightweight, with a 6 hole flange - To fit directly into tank. Specified for use with many hostile fluids. Non-locking Due to the compact dimensions it is not possible to fit a lock to the Aero 200.

P/N 05-06836 ..... ---

AERO 300 - A30 LOCKING AND NON-LOCKING FUEL CAP

Two keys come with the locking version (L). Fixing can be by rivet, bolt, weld or glass in as appropriate. These are flush caps of outstanding quality which are ideal for virtually any homebuilt aircraft. The 300 Series: 3-3/4" OD opening 1-3/4", 6 hole 3" pcd. A37 fits 2" and 2.25" Hoses.

Locking .....P/N 05-22934 ..... ---
Non-Locking .....P/N 05-22935 ..... ---

LOCKING FUEL CAP FOR RV'S

Replacement metal cap for the Lightweight SPRL Fuel Cap. Available as locking only. This fuel cap will fit all SPRL Flanges, e.g the SPRL Universal Flange and G/S Flange. Ideal for all current RV's

Locking Cap .....P/N 05-27067 ..... ---
Non-Locking Cap.....P/N 05-27312 ..... ---

NEWTON AERO 400 FUEL CAP - 8 BOLT

The Aero 400 is available with a locking (L) or non-locking (S) option. The locking type can be supplied with matching key numbers. Newton Equipment Flush Cap, A48S, 3". This flush cap features a 8 bolt pattern and a 4" bolt center

Non-Locking .....P/N 05-28620 ..... ---
Locking .....P/N 05-26422 ..... ---

AERO FUEL CAP OVERHAUL KITS

Overhaul kits contain the required viton rubber seals, stiffnuts and clips.

Aero 300 Fuel Cap OH Kit....P/N 05-02218 ..... ---
Aero 400 Fuel Cap OH Kit....P/N 05-02613 ..... ---
Aero 500 Fuel Cap OH Kit....P/N 05-02219 ..... ---

CAPS FOR FUSELAGE AND WING TANKS

For separate fuselage and wing tanks we offer a screw in flange to fit a 2.25" threaded bushing that can be welded or glassed into a tank. This gives a flush fitting outside the skin, avoiding doors and internal spillage. Ideal for all wooden airplanes (e.g. Falco). Good for smoke oil tanks.

A30S-G/S Non-Locking, Threaded.....P/N 05-28705 ..... ---
A30L-G/S Locking,Threaded.....P/N 05-28700 ..... ---
Aluminum Tank Flange .....P/N 05-01056 ..... ---

RETROFIT FUEL CAPS

Tired of hard to open gas caps and caps which leak? These retrofit gas caps offer easy fingertip action and secure sealing.

GLASAIR FLUSH FITTING CAP

replaces the rubber seal Glasair cap (2.5-entry and 2" hole). Lockable. Epoxy/Flox in place. Based on aero 300 series.....P/N 05-01004 ..... ---
Replacement cap.....P/N 05-21999 ..... ---

VANS RETROFIT FUEL CAP

Fits inside existing Vans flange and arrives flush to the wing surface, replacing the standard 'Usher' cap. Two keys with each cap and matching key numbers. Easy action and secure seal with 1-3/8" orifice. Use this cap for easy operation and zero leaks. Fix in place with eg 'proseal'.. P/N 05-01006 ..... ---

Replacement O-Ring Kit.....P/N 05-07226 ..... ---

LIGHTWEIGHT SPRL FUEL CAPS

SPRL-S-GS

SPRL-S

This cap has secure sealing and easy finger tip operation. These caps are made from the highest quality modern engineering plastics with Viton 'o' ring seals (which can be easily replaced if you should ever need to do so.) The mounting ring is anodized aluminum with the flange recessed to give a perfect flush fit whether it is riveted under a metal skin, as in the RV series, or built into a composite structure. This cap is non vented and recommended to keep the fuel in, the water out and in the locking version, other unwanted items out of your tank. Size: 65 mm O.D.; Wt: 80 grams. SPRL caps are used on Europa, Compair, Glasair, Lancair, Murphy, OMF, Rocket, Velocity, Zenith and many more experimental aircraft.

Non-Locking cap W/ Flush Flange SPRL-S...P/N 05-28662 ..... ---
Locking cap W/ Flush Flange SPRL-L.....P/N 05-28663 ..... ---
Cap with Threaded Flange SPRL-G/S.....P/N 05-28666 ..... ---
Locking cap with Threaded Flange .....P/N 05-28667 ..... ---
Backnut to secure threaded flanges to skin (for 2.25" hose)
P/N 05-00042 ..... ---
Sprl Fuel Cap O-ring Kit.....P/N 05-02611 ..... ---
Replacement neck flange for 05-28666 Cap...P/N 05-11451 ..... ---

A-30 CIR THREADED FUEL CAP

A30-CIR is a screw threaded fuel cap the will fit almost flush to a skin, with the riveted flange on an adjacent tank or the back of a 'wet' skin. This was designed to be fitted after painting, reducing the likelihood of dirt/dust in the cap and the cost of masking/finishing operations. It is available with a locking or non locking cap.

A30 L-CIR Locking.....P/N 05-06838 ..... ---
A30 S-CIR Non-Locking.....P/N 05-06837 ..... ---
SPRL rivet flange for threaded fuel caps
P/N 05-06491 ..... ---

NEWTON FUEL CAP KEYS

#	Part No.	Price	#	Part No.	Price
602	05-03663	---	611	05-15074	---
603	05-15072	---	612	05-15075	---
604	05-03437	---	613	05-15076	---
605	05-04540	---	614	05-15077	---
606	05-03388	---	615	05-15078	---
607	05-03389	---	616	05-15079	---
608	05-04541	---	617	05-15080	---
609	05-04542	---	618	05-22850	---
610	05-15073	---	619	05-22851	---

LIGHTWEIGHT DOOR LOCK SETS

Match above fuel cap locks ..P/N 05-28664 ..... --- **ea.**

AP

PRIST® HI-FLASH® HI-FLO™ ANTI-ICING FUEL ADDITIVE

The Original Just Got Better Prist® Hi-Flash® Hi-Flo™ aerosol cans are now available with a redesigned trigger dispensing system that makes them easier and safer to use. The safety trigger gives the user control of additive flow with instant on and off dispensing. Now the trigger dispensing system comes pre-mounted on the can which eliminates leaks at the valve connection. This means less waste, no drips and no spills. Prist® anti-icing fuel additive comes in a wide range of packaging, making it easy to choose the amount of product and dispensing method for your application. The sizes include: 55-gallon drums, 5-gallon pails, 20-once and 8-ounce aerosol cans.

20 ounce can.....P/N 09-39555 ..... ---
Case (24 Cans) .....P/N 09-39554 ..... ---
5 Gallon .....P/N 09-04436 ..... ---
55 Gallon Drum .....P/N 09-05801 ..... ---

PRIST HI-FLASH LO-FLO

Lo-Flo additive can deliver the product at a rate which is typical of avgas, which is 15 to 20 gallons per minute. Lo-Flo is also used in helicopters, which typically have to be fueled slowly. PRIST Anti-Icing Aviation Fuel Additive is approved for addition to turbine fuels under ASTM specification D1655 and for avgas under specification D910. The additive itself is exactly the same for both types of fuels and is produced to ASTM specification D4171 and to the Military Specification MIL-DTL-85470B.

Single 9oz.....P/N 09-02048 ..... ---
Case of 24 .....P/N 09-02048-1 ..... ---

ALCOR TCP FUEL TREATMENT CONCENTRATE

ELIMINATE SPARK PLUG LEAD FOULING!

"Get the lead out" by using Alcor TCP Fuel Treatment, the only FAA-approved product of its kind for non-turbocharged engines. For use in low-compression piston aircraft engines, A simple treatment with every fill-up prevents that unwanted lead build-up, significantly reducing the fouling of your engine and the cost of flying. Only 1 ounce of TCP is required for every 10 gallons of fuel! The handy syringe dispenser allows precise measurement of the amount of TCP to put in your tank. Stop lead build-up before it starts with TCP! Sold in quarts. **TCP Syringe sold separately Note: TCP is not to be carried aboard aircraft.**

Quart Can.....P/N 05-21300 ..... ---
55-Gallon Drum .....P/N 05-01430 ..... ---

Accessories

Dispenser -(For QT. and Gallon bottles)....P/N 05-21500 ..... ---

DECALIN RUNUP FUEL ADDITIVE

Decalin RunUp is approved for use with the new 100VLL (Very Low Lead) fuel announced by the FAA on Special Airworthiness Bulletin NE-11-55. Decalin RunUp contains two types of additive, one to reduce the negative effects of tetraethyl lead in aviation fuel and the other to improve the combustion efficiency, reduce combustion deposits and clean the fuel delivery system in aircraft. Decalin RunUp is not approved for use in the engines of certified aircraft.

16 oz.....P/N 05-01406 ..... ---
Decalin Runup Fuel Additive Quart.....P/N 05-03412 ..... ---

FUEL FRESH

Aircraft sit - Fuel Fresh prevents gasoline from going stale. This process called Autoxidation occurs when oxygen reacts with fuel, thereby forming gum and varnish. Auto gas is particularly susceptible, losing octane performance and flammability, resulting in greater possibility for detonation. Add fuel Fresh and preserve fuel up to 24 months, maintain octane, prevent gum varnish, clean fuel system, and inhibit corrosion. Quick starts and clean burn are assured. Safe for 2 or 4 cycle engines. Handy measuring bottle. 32 fl.oz. Concentrate (Treats 96 Gal.).....P/N 09-38050 ..... ---

HAMMONDS BIOBOR HUM-BUG DETECTOR KIT

The Hum-Bug Detector® Kit is a low-cost, easy-to-use early warning system that will effectively identify hydrocarbon utilizing micro-organism contamination in all hydrocarbon fuels and oils. Eliminates costly repairs and downtime. Early warning detection of microbial infestation in fuel. .....P/N 05-04964 ..... ---

HAMMONDS BIOBOR JF® FUEL BIOCIDE

For diesel and jet fuel. Recommended in many operating manuals as the preferred, industry standard fuel additive for eliminating Hydrocarbon Utilizing Micro-Organisms (HUM Bugs) in fuel tanks. US Coast Guard Certified and is the only diesel additive that has been given a military MIL Spec number.

16 Ounce.....P/N 05-04963 ..... ---
1 Quart. .....P/N 05-04962 ..... ---
1 Gallon.....P/N 05-04961 ..... ---
5 Gallon.....P/N 05-04960 ..... ---
55 Gallon.....P/N 05-06866 ..... ---

HAMMONDS TURBOLINE FUEL STABILIZER

Turboline FS100 is a high-temperature fuel stabilizer and detergent additive designed to minimize carbon or coke deposits in turbine fuel combustion systems. Turboline FS100 is readily soluble in jet fuel. Batch blending into the fuel is acceptable, but the best procedure is proportional injection. Turboline FS100 is completely compatible with other fuel system additives such as FSII and Biobor JF®. Turboline FS100 is fully approved for all operators using GE, Pratt & Whitney, Honeywell and all variants of the Turbomeca Arriel 1 & 2 engines. Operators with other Turbomeca engine models and Rolls-Royce can obtain approval on request. Please contact your local FAA authority, international authority, or OEM if you have specific questions concerning your equipment.

5 Gallon .....P/N 05-06871 ..... ---
55 Gallon .....P/N 05-06872 ..... ---

HAMMONDS LUBRIBOR® HIGH TECH LUBRICITY AGENT

Features: • Ensures fuel supply quality • Eliminates costly repairs and downtime • Low cost, easy-to-use • Early warning detection of microbial infestation in fuel • Detects microbial infestation in all hydrocarbon fuels and oils

16 Ounce .....P/N 05-06867 ..... ---
1 Gallon .....P/N 05-22223 ..... ---
5 Gallon .....P/N 05-06868 ..... ---
55 Gallon .....P/N 05-06869 ..... ---

FUELSTAT ® PLUS FUEL TESTING KIT

From sample to digital report in 15 minutes! FUELSTAT® Plus is an immunoassay antibody fuel test kit for microbe detection. It can be used wherever Fuel is manufactured, stored, sold or used. Unlike traditional tests, FUELSTAT® Plus test kits only find micro-organisms that do damage to fuel. With FUELSTAT® Plus, tests take as little as 15 minutes, unlike current growth-based tests that need at least 72 hours. With easy-to-understand alert levels, you instantly know whether you need to take further action. The process is self-contained, requiring no additional equipment—just a single FUELSTAT® fuel testing kit for each test. It's so easy to use, that a single individual can carry out the tests with only minimal training.

Fuel Type	Single Kit	Price	Box of 8	Price
Jet Fuel	05-15250	---	05-29008	---
Diesel Fuel	05-29009	---	05-29007	---

FUELSTAT® ONE FUEL TESTING KIT

FUELSTAT® One test kits are a new innovation in lateral flow fuel testing for microbe detection. They can be used wherever fuel is manufactured, stored, sold or used. Unlike traditional tests, FUELSTAT® test kits can be used at the tank, wherever it is located. With FUELSTAT® One, tests typically take 20-30 minutes from sample taken, to full PDF report, unlike growth-based tests that need lab-based conditions and at least 72 hours. With easy-to-understand alert levels and a fully quantitative result, you instantly know whether you need to take further action. The process is self-contained, requiring no additional equipment—just a single FUELSTAT® One fuel testing kit for each test.

Fuel Type	Single Kit	Price	Box of 8	Price
Jet Fuel	05-29013	---	05-29012	---
Diesel Fuel	05-29011	---	05-29010	---

FQS HY-LITE® JET A1 FUEL TEST KIT

HY-LiTE® Rapid Microbial Test for Fuel Systems is for the immediate detection of microbiological contamination in fuel and fuel storage and distribution systems. The HY-LiTE® Complies with ASTM D7463 ATP Method. **In The Box:** • 20 fuel test pens • 2 x 20 pipettes • Step-by-step guide. Note: To maintain shelf life and ensure accuracy, pens should be refrigerated.

P/N 12-06444 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FUEL TANK SEALANTS

3M™ AC-350 TYPE A & B AEROSPACE SEALANTS

3M™ Aerospace Sealant AC-350 is a family of intermediate density, fast-curing, polysulfide fuel tank sealants that provides outstanding resistance to aviation fuels and petroleum chemicals. The Class A, B and C variants maintain bond strength on many metal, composite and coated substrates and help meet a range of applications for integral fuel tank and fuselage sealing. The 3M™ Aerospace Sealant AC-350 family of polysulfide sealants provide a number of advantages and benefits compared to traditional sealants. With three classes, they meet a wide range of manufacturing and maintenance needs. **Class Distinction**: When Class A version is mixed, it provides a smooth pourable liquid that spreads evenly with a brush or roller to cover large areas quickly. Available in three different work lives, 3M™ Aerospace Sealant AC-350 Class A gives you the flexibility you need for various requirements. Rapid cure times keep your processes moving forward.

TYPE A

Class & Description	Size	Part No.	Price
A-2 AMS-S-8802 Kit	2 oz.	09-05587	---
A-2 AMS-S-8802 Kit	3.5 oz.	09-04592	---
A-2 AMS-S-8802 Kit	Pint	09-05578	---

TYPE B

Class & Description	Size	Part No.	Price
B-1/2 AMS-S-8802 Kit	25 Gram	09-05642	---
B-1/2 AMS-S-8802 Kit	2 oz.	09-05579	---
B-1/2 AMS-S-8802 Kit	3.5 oz.	09-05593	---
B 1/2 AMS-S-8802 Kit	Pint	09-05580	---
B-2 AMS-S-8802 Kit	2 oz.	09-05581	---
B-2 AMS-S-8802 Kit	3.5 oz.	09-04009	---
B-2 AMS-S-8802 Kit	Pint	09-05582	---
B-2 AMS-S-8802 Kit	Quart	09-05583	---
B-4 AMS-S-8802 Kit	3.5 oz.	09-05584	---

PRO SEAL FUEL TANK SEALANT 890 A2

An aircraft integral fuel tank sealant that has a service temperature range from -65°F (-54°C) to 250°F (121°C), with intermittent excursions up to 275°F (135°C). This material is designed for brush and fay sealing of fuel tanks and other aircraft fuselage sealing applications. The cured sealant maintains excellent elastomeric properties after prolonged exposure to both jet fuel and aviation gas. A two-part, manganese dioxide cured polysulfide compound. The uncured material is suitable for application by brush in thickness up to 25 mils. It cures at room temperature to form a resilient sealant having excellent adhesion to common aircraft substrates.

6 oz.....P/N 09-04644 ..... ---

PRO SEAL 890 CLASS B PRO-SEAL FUEL TANK SEALANT

A filleting compound for sealing integral fuel tanks and pressurized cabins. It was especially developed for use over a temperature range of -65°F to +275°F and provides outstanding resistance to aircraft fuels (aviation gasoline or jet fuel) and petroleum base lubricating oils. Cures at room temperature and without shrinkage to form a resilient sealant possessing excellent adhesion to aluminum, magnesium, titanium, steel and numerous other materials.

Class	Size	Part No.	Price
B-1/2	2.5 oz.	09-04494	---
B-1/2	3.5 oz.	09-04493	---
B-1/2	Pint	09-04642	---

Class	Size	Part No.	Price
B-2	6 oz.	09-04643	---
B-2	Pint	09-38560	---
B-2	Quart	09-38565	---

ALCOHOL RESISTANT GAS TANK SEALER

This is impervious to all fuel types. Over 2,000,000 sold to date. It is the best way to repair and restore your fuel tank. Simple application, includes extensive application information and product information sheet. Will seal pinhole leaks and prevent rusting. 1 Pint will seal a 10-12 gallon tank. Good for all fuel types. Works well with all metal and fiberglass tanks.

Note: For Experimental Aircraft Only!

Quart.....P/N 09-03477 ..... ---
Gallon .....P/N 09-02566 ..... ---

CHEMSEAL 3204 CLASS B FUEL TANK SEALANT

CS3204 is a fuel resistant sealant for use on integral fuel tanks and pressurized cabins as well as other areas subject to contact with aircraft fuels, lubricants, oils, water and/or weathering.

At room temperature, this two-part polysulfide cures to a flexible, resilient rubber. Meets requirements of specifications AMS-S-8802 formerly MIL-S-8802, CMNP021, Lockheed, Gulfstream, Hughes Aircraft, Fairchild SPS 6-1 & 6-2

Class	Size	Color	Part No.	Price
B-1/2	2.5 oz	Gray	09-06023	---
B-1/2	3.5 oz. Fill	Gray	09-04612	---
B-1/2	Pint	Gray	09-06024	---
B-1/2	Quart	Gray	09-04648	---
B-1/2	2 oz.	Black	09-06123	---
B-1/2	3.5 oz. Fill	Black	09-06124	---
B-1/2	Pint	Black	09-06125	---
B-1/2	Quart	Black	09-06126	---
B-2	2.5 oz	Gray	09-38500	---
B-2	3.5 oz. Fill	Gray	09-38510	---
B-2	Pint	Gray	09-05729	---
B-2	Quart	Gray	09-05851	---
B-2	2 oz.	Black	09-06127	---
B-2	3.5 oz. Fill	Black	09-06128	---
B-2	Pint	Black	09-06129	---
B-2	Quart	Black	09-06130	---

Accessories

Nozzle for Pro-Seal Kits .....P/N 09-05742 ..... ---
Economy Sealant Mixer .....P/N 12-01792 ..... ---

PRO SEAL 1422 CLASS B FUEL TANK SEALANT SEMKIT

PR-1422 Class B is an aircraft integral fuel tank sealant. It has a service range from -65F (-54°C) to 250°F (121°C), with intermittent excursions up to 275°F (135°C). This material is designed for fillet sealing fuel tanks and other aircraft fuselage sealing applications. The cured sealant maintains excellent elastomeric properties after prolonged exposure to both jet fuel and aviation gas.

PR-1422 Class B is a two-part, dichromate cured poly-sulfide compound. The uncured material is a low sag, thixotropic paste suitable for application by extrusion gun or spatula. It cures at room temperature to form resilient sealant having excellent adhesion to common aircraft substrates.

Class	Size	Part No.	Price
B-1/2 Kit	6 oz.	09-05717	---
B-1/2 Kit	Pint	09-04836	---
B-2 Kit	6 oz.	09-04703	---
B-2 Kit	Pint	09-04835	---

PMA RAPID CURE SEALANT NSL890RC B 1/2 GRAY

NSL890RC B1/2 is a rapid-cure, fuel resistant aerospace and aviation sealant. It offers a faster cure time so you can get your job done more quickly. It is intended for use on integral fuel tanks and pressurized cabins as well as other areas subject to contact with aircraft fuels, lubricants, oils, water and/or weathering. This is an FAA-approved PMA replacement for PPG's PS-890B1/2 sealant that cures at least 70% faster.

2.5 oz.....P/N 09-06135 ..... ---

PRO SEAL PR-1776M CLASS B2 LOW WEIGHT FUEL TANK SEALANT

A low density, high temperature aircraft integral fuel tank sealant. Service temperature range from -65°F (-54°C) to 250°F (121°C), with very limited excursions up to 360°F (182°C). Designed for fillet sealing of fuel tanks and other aircraft fuselage sealing applications. Cured sealant maintains excellent elastomeric properties after prolonged exposure to aircraft fuels both jet fuel and aviation gas, and will resist limited contact to diphosphate ester based hydraulic fluids. Two-part, manganese dioxide cured Permapol® P-5 modified polysulfide. Suitable for application by extrusion gun or spatula. It cures at room temperature to form a resilient sealant. Shelf Life: 9 months.

6 oz.....P/N 09-05990 ..... ---
Quart Kit .....P/N 09-02003 ..... ---

AP

RHINO 9700 FUEL TANK SEALER

Rhino 9700 is a 100% solids epoxy system which is the highest quality fuel and chemical resistant lining and coating material available. It contains no solvents and no corrosive or carcinogenic substances to assure low toxicity and ease of application. Provides superior low temperature curing, impact and abrasion resistance, and cures in the presence of moisture or humidity. Brushes on easily. Sold in 3 gallon kit containing 2 gallons of resin and 1 gallon of hardener. One 3 gallon kit can coat tanks of average size homebuilt. Used extensively on Lancairs and other homebuilts. Shelf life one year.

1 Gallon Kit.....P/N 09-05368 ..... ---
3 Gallon Kit.....P/N 09-42226 ..... ---

JEFFCO FUEL TANK SEALER

A 100% solids epoxy system. It contains no solvents and no corrosive or carcinogenic substances to assure low toxicity and ease of application. Provides superior low temp. curing, impact and abrasion resistance, and cures in the presence of moisture or humidity. Brushes on easily. One 3 gallon kit can coat tanks of average size homebuilt.

Note: Jeffco Fuel Sealer 9700 FCR (Part Number: 09-42226) is made up of 2 parts. Part A and Part B. They both can be sold separately. Part A is Part number: 01-01062 and Part B is part number: 01-01063.

3. Gallon Kit.....P/N 09-42226 ..... ---

PRO SEAL 1005-L BUNA-N SLOSH COATING

A aircraft integral fuel tank slosh coating designed as a top-coat or barrier coating, cured to resist prolonged exposure to both jet fuel and aviation gas. It has a service temperature range from -100°F (-73°C) to 250°F (121°C), with intermittent excursions up to 275°F (135°C). PR-1005-L is a one part, synthetic rubber solution.Suitable for application by brush, fill-and-drain, dip, or spray. It cures at room temp. Test results are in accordance with MIL-S-4383 specification test methods. Color: Red; Dry time(77°F): 20 mins.; non-toxic.

Pint .....P/N 09-00323 ..... ---
Quart.....P/N 09-00324 ..... ---

AEROLIFE POLYPROTECH FUEL TANK SEALANT SINGLE COMPONENT

Fuel Tank Sealant “Single Phase” (one-part) A long lasting, permanently flexible “Single Phase” Polysulfide Sealant. Tack-free in 1 to 3 days, excellent resistance to oils, gasoline and diesel fuel Ideal for fuel tanks; cures to a firm flexible rubber seal with excellent adhesion qualities, can also be sanded and painted.....P/N 09-02544 ..... ---

DAPCO 2100 PRIMERLESS FIREWALL SEALANT

Dapco™ 2100 is an adhesive, solvent-free, thixotropic silicone paste. Dapco™ 2100 is most commonly used as a coating, sealant, or filleting material in the construction, repair and maintenance of all types of aircraft. The product can be applied using a variety of methods and is especially useful where fire resistance, exposure to phosphate ester fluids, and/or exposure to extreme temperatures -65° F (-54° C) to 400° F (204° C) are major considerations. The product can also be used as an insulative and/or ablative heat shield.

6 oz .....P/N 09-05253 ..... ---

DAPCO 2200 FIREWALL SEALANT

Dapco™ 2200 is an adhesive, solvent-free, thixotropic silicone paste. Dapco™ 2200 is most commonly used as a coating, sealant or filleting material in the construction, repair and maintenance of all types of aircraft. The product can be applied using a variety of methods and is especially useful where fire resistance, exposure to phosphate ester fluids, and/or exposure to extreme temperatures -65°F (-54°C) to 400°F (204°C) are major considerations. The product can also be used as an insulative and/or ablative heat shield.

6 oz.....P/N 09-05254 ..... ---

CHEMSEAL 3247 B AIRCRAFT WINDSHIELD SEALANT

CS3247 from Flamemaster is an aircraft windshield sealant intended for use when setting or repairing windshields and transparencies of glass, acrylic, or polycarbonate in composite or metal frames.

At room temperature, this two-part polysulfide cures to a flexible, resilient rubber.

Class	Size	Part No.	Price
B-1/2	2.5 oz	09-06005	---
B-1/2	6 oz	09-06006	---
B-1/2	Pint	09-06007	---
B-1/2	Quart	09-06008	---
B-2	2.5 oz	09-06009	---
B-2	6 oz	09-06010	---
B-2	Pint	09-06011	---
B-2	Quart	09-06012	---

3M™ AC-251 B-2 - CANOPY / WINDSHIELD SEALANT

A two-part, quick curing, polysulfide based canopy and windshield sealants. Formulated for sealing acrylic, glass, and polycarbonate aircraft canopies and windshields. Contain no solvent and do not craze. Excellent adhesion and resistance to UV and weather exposure. Fill Premixed Syringe. A thixotropic, non-sag consistency.

3.5 oz.....P/N 09-04008 ..... ---

PRO SEAL 1425 CLASS B WINDSHIELD / CANOPY SEALANT

PR-1425 Class B is an aircraft windshield and canopy sealant. It has a service temperature range from -65°F to (-52°C) to 250°F (121°C), with intermittent excursions up to 275°F (135°C). This material is designed for fillet sealing of properly prepared glass, polycarbonate, acrylic and other aircraft sealing applications. This product is specifically formulated not to craze substrates. The cured sealant exhibits excellent resistance to UV and weather exposure.

Class	Size	Part No.	Price
B-1/2	6 oz.	09-05740	---
B-2	6 oz.	09-05741	---
B-2	Quart	09-05993	---

TRIGGER TYPE SEALANT GUNS

This air-powered, trigger controlled sealant gun will spread sealant smoothly, uniformly, and exactly where you want it. Includes body, 10 ft. hose, and 2 1/2 oz. zinc plated corrosion resistant retainer to prevent cartridge split. Hose has Hanson-style air fitting.

Gun with 2.5 oz. Retainer.....P/N 12-02923 ..... ---
Gun with 6 oz. Retainer.....P/N 12-02922 ..... ---

PISTOL GRIP SEALANT GUNS

Use this pneumatic pistol grip sealant gun to apply smooth, uniform material exactly where you want it. Comes with body, 10 ft. hose, and 2 1/2 oz. zinc-plated corrosion resistant retainer. Hanson-style air fitting on hose.

Gun with 2.5 oz. Retainer.....P/N 12-02921 ..... ---
Gun with 6 oz. Retainer.....P/N 12-02920 ..... ---
Gun with 2.5 oz. & 6 oz. Retainers.....P/N 12-04600 ..... ---
2.5 oz. Retainer only.....P/N 12-04598 ..... ---
6 oz. Retainer only.....P/N 12-04599 ..... ---

PRO SEAL AIR POWERED TS950-60-HA 6.0 OZ GUN KIT

This 6.0 oz Pro Seal Gun Kit includes: Techcon Gun Pistol Grip Assembly TS950-60-HA 6oz. Techcon Extended Wiper Plunger (1 piece) Techcon 6 Oz. Standard Density Disposable Cartridge. Techcon TS950 10ft. Hose Assembly.

Air Powered 6.0 Ounce Gun Kit.....P/N 09-38550 ..... ---
Air Powered 6.0 Ounce Gun Only.....P/N 09-38552 ..... ---
Extended Wiper Plunger (Sold Each) .....P/N 09-00758 ..... ---
2.5 oz. Std. Density Disposable Cartridge ..P/N 09-00759 ..... ---
Techcon TS950 10Ft. Hose Assembly.....P/N 09-02416 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PRO SEAL 870 A-1/2 CORROSION INHIBITIVE SEALANT

P/S 870 Class A is a corrosion inhibitive sealant. It has a service temperature range from -65°F (-54°C) to 250°F (121°C), with intermittent excursions up to 275° (135°C). This material acts as an effective barrier against the common causes of corrosion on aluminum alloys or between dissimilar metals. The cured sealant maintains elastomeric properties after limited exposure to both jet fuel and aviation gas. P/S 870 Class A is a two-part, manganese dioxide cure polysulfide compound. The uncured material is suitable for application by brush in thickness up to 25 mils. It cures at room temperatures to form a resilient sealant having excellent adhesion to common aircraft substrates.

Class	Size	Part No.	Price
A-1/2	2.5 oz.	09-06048	---
A-1/2	6 oz.	09-06047	---
A-1/2	Pint	09-06049	---
A-1/2	Quart	09-06050	---

PRO SEAL 870 B-1/2 CORROSION INHIBITIVE SEALANT

P/S 870 Class B corrosion inhibitive sealant. It has a service temperature range from -65°F (-54°C) to 250°F (121°C). with intermittent excursions up to 275°F (135°C). This material acts as an effective barrier against the common causes of corrosion on the aluminum alloys or between dissimilar metals. The cured sealant maintains elastomeric properties after limited exposure to both jet fuel and aviation gas. P/S 870 Class B is a two-part, manganese dioxide cured polysulfide compound. The uncured material is a low sag, thixotropic paste suitable for application by extrusion gun or spatula. It cures at room temperature to form a resilient sealant having excellent adhesion to common aircraft substrates.

Class	Size	Part No.	Price
B-1/2	2.5 oz.	09-06052	---
B-1/2	6 oz.	09-06051	---
B-1/2	Pint	09-06053	---
B-1/2	Quart	09-06054	---

NYCOTE 7-11 CORROSION PROTECTION

Apply Nycote® 7-11 to metal surfaces that need protection from corrosive elements. The liquid formula can be easily applied by painting, spraying or dipping areas that need protection from aircraft fuels, oil, lubricants, phosphate ester hydraulic fluids, salt spray and water. Nycote® 7-11 also provides excellent high impact, abrasion resistance, flexibility and toughness at temperatures of -70°F to +300°F (-57°C to +149°C). Nycote® 7-11 has a six-month shelf life and the container can be resealed throughout. NSN: 8010-01-134-0415.

Clear (Pint) ..... P/N 09-05322 ..... ---
Blue (Pint) ..... P/N 09-05321 ..... ---
Pen Clear (10ml) ..... P/N 09-05324 ..... ---
Pen Blue (10ml) ..... P/N 09-05323 ..... ---

PPG SEMCO STANDARD 254 NOZZLE

The disposable nozzle model #254 is precision molded and has a 1/4 inch NPT male thread to fit the Semco 1, 2.5, 6, 8, 12, 20, 32oz, and 1/10th gallon disposable cartridges.This nozzle has a 1/8 inch orifice and is approximately 2.5 inches in length.A wide range of lengths and orifice sizes are available to better meet your application needs. The Semco model #254 nozzle is intended to be affixed to a Semco cartridge and dispensed with a pneumatic or manual gun..... P/N 09-04668 ..... ---

CHEMSEAL 3213 B1/2 CORROSION SEALANT

CS3213 B1/2 from Flamemaster is a corrosion inhibitive sealant intended for use on integral fuel tans and pressurized cabins as well as other areas subject to contact with aircraft fuels, lubricants, oils, water and/or weathering. At room temperature, this two-part polysulfide cures to a flexible, resilient rubber.

6 oz ..... P/N 09-06071 ..... ---

AEROWING PNEUMATIC AND MANUAL SEALANT REMOVAL TOOL KIT

The Desealing Tool Kit combines both the pneumatic Rapid Desealing Tool (RDS) and the Manual Desealing Tool (MDS) into one unit.

The RDS uses vibration technology to debond the sealant from the surface at high speed and is safe for use in fuel tanks and elsewhere. The MDS is a manual tool that removes sealant by hand. Both tools eliminate sealant dust generation and reduce FOD.

The RDS and MDS use Aerowing-patented medical grade, thermoplastic tips to remove the sealant. The tips have been tested for use on aircraft structure as well as delicate primer, and the results verify no resulting damage. These tips are specifically designed to aid sealant removal in spaces that are difficult to navigate. They include multi-angled tips, bladed and flat tips, and more.

The tool comes with interchangeable tips that can be sharpened and used multiple times. Shaft extensions are also included.

P/N 09-06069 ..... ---

PRO SEAL HAND-DISPENSING GUN

These hand-operated dispensing guns are ideal for applying Pro-Seal type sealants in small quantities normally used by the home builder Available in two sizes for the two sizes of Pro-Seal offered above.

2-1/2 oz. Dispensing Gun..... P/N 09-38520 ..... **---/ea.**
6 oz. Dispensing Gun..... P/N 09-38530 ..... **---/ea.**

PRO SEAL AIR POWERED TS950 GUN KIT

The Air Powered Sealant kit includes: Techcon TS950 Sealant Gun with Pistol Grip Handle 2.5 oz. Versatile, pneumatic 2.5 ounce sealant applicator system with pistol grip handle. Techcon Extended Wiper Plunger (1 piece per kit) Techcon 2.5 Oz. Standard Density Disposable Cartridge (1 piece per kit) Opaque White

Air Powered 2.5 Ounce Gun Kit..... P/N 09-38540 ..... ---
Air Powered 2.5 Ounce Gun Only..... P/N 09-38542 ..... ---
Extended Wiper Plunger (Sold Each) ..... P/N 09-00758 ..... ---
2.5 oz. Std. Density Disposable Cartridge .. P/N 09-00759 ..... ---

NSL DISPENSER RETRACTABLE RETAINER SA-100

The B&O model SA-100 is a pneumatic sealant gun manufactured for the use of Semco and Techcon cartridges. Designed with a lightweight, retractable holder system, the SA-100 does away with the standard steel tubed cartridge holders and can be used with or without the retainer. This unique system only requires one cartridge holder to hold 2.5 oz, 5 oz, 6 oz, 8 oz and 12 oz cartridges

P/N 09-06034 ..... ---

NSL DISPENSER MANUAL RETRACTABLE RETAINER HP-SK 100

The B&O model HP-SK/100 and HP-SKA/100 is a sealant gun manufactured for the use of Semco and Techcon cartridges. Designed with a lightweight, retractable holder system, the HP-SK/100 and HP-SKA/100 does away with the standard steel tubed cartridge holders and can be used with or without the retainer. This unique system only requires one cartridge holder to hold 2.5 oz, 5 oz, 6 oz, 8 oz and 12 oz cartridges.

Manual Dispenser w/Retractable Retainer.. P/N 09-06036 ..... ---
Battery Gun w/Retractable Retainer..... P/N 09-06037 ..... ---

NSL DISPENSER RETRACTABLE RETAINER SAN-100

The B&O model SAN-100 is a pneumatic sealant gun manufactured for the use of Semco and Techcon cartridges. Designed with a lightweight, retractable holder system, the SAN-100 does away with the standard steel tubed cartridge holders and can be used with or without the retainer.

This unique system only requires one cartridge holder to hold 2.5 oz, 5 oz, 6 oz, 8 oz and 12 oz cartridges. It is engineered for smooth dispensing, and the holder is designed to provide a full view of the cartridge, allowing the user to see the level of fluid inside the dispenser at all times .....P/N 09-06035 ..... ---

AP

ACF-50 ANTI-CORROSION COMPOUND

ACF-50 is a state-of-the-art compound for controlling corrosion on aircraft electrical and avionics systems and airframes. ACF-50 is designed for owners of strut equipped Piper aircraft to comply with new Piper bulletin 5280C requiring lift strut inspection. ACF-50 kills the corrosion process with just one application and will last for 24 months. Microswitches, cannon plugs, and relays will remain corrosion free. Plus, ACF-50 will easily free seized nuts, screws and bolts. ACF-50 is qualified under Mil-C-81309E, and manufactured under ISO 9000 Certified Processes. Try ACF-50, you will be truly amazed at the results.

13 oz. Spray Can(HAZMAT) ..... P/N 09-44350 ..... ---
32 oz. Bottle ..... P/N 09-00364 ..... ---
4 Liter can ..... P/N 09-44345 ..... ---
20 Liter Pail ..... P/N 09-00437 ..... ---

CORROSION BLOCK

Corrosion Block is a clean fluid that actively protects metal using advanced polar bonding chemistry. Synthetic additives in Corrosion Block completely penetrate corrosion cells…replacing the salt water which is then allowed to evaporate. Corrosion Block's hydrophobic film remains to further protect the metal acting like an off-switch for corrosion.

4 oz. Pump ..... P/N 09-02991 ..... ---
12 oz. Aerosol ..... P/N 09-02992 ..... ---
4 Liter ..... P/N 09-04079 ..... ---
20 Liter ..... P/N 09-02993 ..... ---
32 oz. with spray ..... P/N 09-02994 ..... ---
114 Liter Drum ..... P/N 09-04080 ..... ---
205 Liter ..... P/N 09-02995 ..... ---
Case of 12 Aerosols ..... P/N 09-02992-12 ..... ---

CORROSION BLOCK GREASE

Multi Purpose High Performance Grease, Won't Soften, Breakdown or Wash Out. Formulation provides both high and low temperature performance. Strongly resists water wash out and provides superior protection against rust and corrosion. Corrosion Block Grease out performs lithium and most synthetic greases and meets or exceeds requirements for NLGI Service Classification GC-LB (automotive wheel bearing and chassis lubricants), which is based on ASTM D4950 performance requirements.

2 oz. Tube ..... P/N 09-02987 ..... ---
14 oz. Tube ..... P/N 09-02989 ..... ---
16 oz. Tub ..... P/N 09-02990 ..... ---

CORROSION X AVIATION

Corrosion X is an excellent penetrant, lubricant, and corrosion filter which confirms to Mil-C-81309E and is perfect for extended corrosion protection of airframes. It is also highly effective in protection of all components in the electrical / avionics systems. On existing corrosion, it penetrates oxidation, displaces lectrolyte and stops electrolysis. On corrosion free surfaces provides an ultra-thin barrier to guard against moisture intrusion and corrosion attack. Treatment lasts 2 years or more, and Corrosion X is non-toxic. Corrosion X is a highly recommend treatment for extending the life of airframes.

Aviation Formula			Original Formula		
Size	Part No.	Price	Size	Part No.	Price
16 oz. Spray	09-00296	---	16 oz. Spray	09-00926	---
16 oz. Aerosol	09-42220	---	16 oz. Aerosol	09-00925	---
1 Gallon	09-44225	---	1 Gallon	09-04084	---
5 Gallon	14-00672	---	5 Gallon	09-04269	---
30 Gallon	09-04086	---	30 Gallon	09-04268	---
55 Gallon	09-04085	---	55 Gallon	09-04270	---

CORROSION X PRESSURE SPRAYERS

Excellent for applying Corrosion X and require no special training to operate. Compact, convenient and easy to use, these sprayers have no moving parts and operates at 80 PSI shop air. Furnished with instructional video. Available in 3 sizes.

5 GALLON HANDI-SPRAY™

Required Air Pressure: 80 PSI @ 5 - 6 CFM Capacity: 5 gallons Weight: 28lbs Hose: 25' Color: Blue

Basic Unit Includes: 1" cricket wand, 3' x 1/4" 360° wand, 3' superflex wand ..... P/N 09-00371 ..... ---

Complete Unit Includes: 1" cricket wand, 3' x 1/4" 360° wand, 3' superflex wand, 8' x 1/4" 360° wand, 6' x 3/16" 45° fan wand, 5" x 1/8" hook wand ..... P/N 09-00372 ..... ---

BELT PACK - Required Air Pressure: 80 PSI @ 5 - 6 CFM Capacity: 1 quart Weight: 7lbs Hose: 3'

Basic Unit Includes: Pistol belt and holster, 1" cricket, 5" x 1/8" hook wand, 3' superflex ..... P/N 09-00375 ..... ---

Complete Unit Includes: Pistol belt and holster, 1" cricket wand, 3' x 1/4" 360° wand, 3' superflex wand, 8' x 1/4" 360° wand, 6' x 3/16" 45° fan wand, 5" x 1/8" hook wand ..... P/N 09-00376 ..... ---

CORROSION X HEAVY DUTY

CorrosionX Heavy Duty is for super long-term protection against serious rust and corrosion assault. For those really tough jobs where you need the ultimate protection against moisture, the answer is new CorrosionX Heavy Duty. There is no other product like it on the market today. It is a high performance, thick-film version of CorrosionX. It was developed specifically to provide maximum protection against moisture intrusion and resulting rust and corrosion. Recommended for use on boat trailers by Field and Stream.

12 oz. Aerosol ..... P/N 09-00927 ..... ---
1 Gallon ..... P/N 09-04117 ..... ---
5 Gallon ..... P/N 09-04265 ..... ---
30 Gallon ..... P/N 09-04266 ..... ---
55 Gallon ..... P/N 09-04267 ..... ---

CORROSION X RUST REMOVER

CorrosionX Rust Remover is a breakthrough in the nonhazardous removal of unwanted rust. Rust Remover eliminates surface rust from iron and steel without harmful fumes. It will not harm copper, brass, plastic, rubber or vinyl. It is also safe to use on painted surfaces for removal of 'bleeding' rust. Not for use on nonferrous metals. Once rust has been removed, it is important to treat metal with some kind of protective coating so that the clean metal surface does not re-rust. For this purpose we recommend neutralizing / rinsing the cleaned metal surface.

16oz. ..... P/N 09-04273 ..... ---
Gallon ..... P/N 09-04645 ..... ---

PAR-AL-KETONE

Black Bear Par-Al-Ketone is best known as one of the most rugged corrosion preventives available, performing successfully for over 40 years protecting aircraft components and machine parts in outdoor storage and for export.

Quart ..... P/N 09-26800 ..... ---

BOESHIELD™ T-9 CORROSION PROTECTANT

Developed this formula for long term protection of aircraft components. Penetrates to fasteners and fixtures, where it displaces moisture, and will even loosen rusted parts. Boeing recommends it for fuselage, wing, and tail structures, engines and cowlings, landing gear and gear wells, control linkages, and avionics. Dries to a clean waxy film. Lubricates and protects all metals for months. Safe on most paints, plastics & vinyls.

12 oz. Aerosol can ..... P/N 09-01623 ..... ---
4 oz Drip Can ..... P/N 09-00378 ..... ---
4 oz Spray Can ..... P/N 09-00379 ..... ---
Gallon Can ..... P/N 09-01622 ..... ---

DOW CORNING DC-4 COMPOUND

A grease-like silicone material which provides a moisture proof seal for ignition and electrical systems. More water repellent than waxes. Effective from -70° to 400° F. A low-loss dielectric. Meets spec. MIL-I-8860.

5.3 Oz.Tube ..... P/N 09-27700 ..... ---

ECK CORROSION COATING

Eck®-T, convenient liquid paste squeeze tube, ideal for small applications such as holes and on hardware. Comes with a screw-on nozzle attachment. Prohibits dissimilar metals from Electrolysis and Galvanic corrosion. Protects aluminum and stainless steel against electrolytic reaction, isolates dissimilar metals and gives bedding protection for hardware and fasteners. Eck® contains anti-seizing lubricant for threads. Eck® is dielectric and perfect for use with electrical connectors ..... P/N 09-02138 ..... ---

ACF-50 X HAND HELD SPRAY SYSTEM

The HAND HELD SPRAY SYSTEM is designed to turn ACF-50 into a dense fog. The equipment has been preset and factory tested to achieve this goal. The equipment is rugged and will provide years of service, with virtually no maintenance, provided reasonable care is taken with its use.

P/N 09-04053 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SENSENICH COMPOSITE PROPELLERS

TRACTOR PROPELLERS

Engine	Speed	Model Number	Prop. Dia.	Spinner Dia.	Part Number	Price
Rotax 912/912S/914		2A1R5R75DN	75”-71”	12”	05-10605	---
Rotax 912/912S/914		3B0R5R68CN	68”-62”	9.5”	05-10606	---
Rotax 912/912S/914	Over 150	2A0J5R62HN	62”-58”	8”-11.5”	05-10608	---
Jabiru 2200		2A0J5R64ZN	64”-60”	8”-11.5”	05-10609	---
Continental O-200, Lycoming O-235	---	2EM6C72AE (Lyc.)	72”-69”	9.5”	05-10611	---
Continental O-200, Lycoming O-235		2G0M7 2-Blade	72”-68”	13”	05-10612	---
Lycoming O-320, O-360		2G0M8C72RG	72"-68"	13"	05-11909	---
Lycoming O-360	---	3G0M8C72PG	72"-68"	13"	05-11910	---

PUSHER PROPELLERS

Engine	Speed	Model Number	Prop. Dia.	Spinner Dia.	Part Number	Price
Rotax 912/912S/914	---	2A0R5L69EN	68”-64”	8”-11.5”	05-10614	---
Rotax 912/912S/914		3B0R5L68CN	68”-62”	9.5”	05-10615	---

AP

BLADES

(Must Specify Cutdown and Balance Weight)

Model	Description	Part No.	Price
R70DN-(), R75DN-()	2 Blade Rotax Tractor, Long Hub	05-10617	---
R64EN-(), R70EN-()	2 Blade Rotax Tractor, Short Hub	05-10618	---
L68CN-(), R68CN-()	3 Blade Rotax Pusher, Tractor	05-10619	---
R62HN-()	Jabiru 2200 Tractor	05-10620	---
L62PN-(), R64ZN-()	Jabiru 3300 Pusher, Tractor	05-10621	---
L69EN-()	2 Blade Rotax Pusher, Short Hub	05-10622	---
C72AE-()	2 Blade Continental O-200, Lycoming O-235	05-10623	---
C72RG-()	2 Blade Lycoming O-320, O-360	05-10624	---
C72PG-()	3 Blade Lycoming O-320, O-360	05-10625	---

HUBS

Includes bolts and pitch change system

Model	Part No.	Price
Rotax, Jabiru	05-11028	---
2EK, 2EM6	05-11030	---
2G0M7, 2G0M8	05-11031	---
Jabiru	05-27138	---
2EM6	05-27139	---

PREMIUM SPINNERS

Specify Engine

Diameter	Part No.	Price
9.5”	05-10631	---
13” (RV)	05-10632	---

SENSENICH PROPELLER FOR CESSNA 172’S

This propeller is STC’s for Cessna 172’s I thru P using Lycoming 0-320 series engines. It is available in pitches of 56 to 60 and no spinner change is required. Features a full 2 inch diameter reduction. Model 74DM7S14-0-56-60 (Specify pitch).....P/N 05-22301 ..... ---

PROPELLER BUSHINGS

SENSENICH A-437 For installations with Continental taper shaft. 5/8” O.D. x 3/8” I.D. x 1/2” Long. Set of 6 .....P/N 05-01127 ..... ---

MCCAULEY A-1170 5/8” O.D. x 3/8” I.D. x 11/16” Long. Set of 6 .....P/N 05-01128 ..... ---

SENSENICH COMPOSITE AIRCRAFT PROPELLERS

Sensenich composite propellers are available for a wide range of experimental aircraft engines such as the Rotax 912, 912S, 914, Jabiru 2200 and 3300, Continental 0-200, and Lycoming 0-235, 0-320, and 0-360. Replacement blades, hubs, bolt kits, extensions, and spinners are also available,
See www.aircraftspruce.com for complete list of Sensenich products, part numbers and prices.

SENSENICH METAL PROPELLERS

Most popular models of Sensenich metal propellers are available in local stock for immediate shipment. Installation bolt kit is furnished with each propeller. Attaching kit for flange shaft will be packed for all Continental installations unless taper shaft installation is specified. Propellers may be shipped via UPS. Partial List - Request Prices on Unlisted Models. Approximate Shipping Weight 40 Lbs.

Aircraft Model*	Engine	Standard Prop	Climb Prop	Cruise Prop
Aeronca 11AC	Continental A-65	74CK-0-46	---	---
Beech Model 23	Lycoming O-320 (160 hp)	74DM6-0-60	74DM6-0-56	---
Bellanca 7EC, 7FC, 7JC	Continental C-90	76AK-2-46	76AK-2-44	76AK-2-48
Cessna 120, 140	Continental C-85	76AK-2-44	76AK-2-42	---
Cessna 150 thru 150K	Continental O-200	69CK-0-52	---	---
Cessna 152	Lycoming O-235 (110 hp)	72CKS6-0-56	72CKS6-0-54	---
Cessna 172 thru 172C	Continental O-300C, D	74DC-0-56	---	---
Cessna 170	Lycoming O-360 (180 hp)	76EM8S5-0-56	76EM8S5-0-54	76EM8S5-0-60
Cessna 172 Avcon Conv.	Lycoming O-360 (180 hp)	76EM8S5-0-56	---	---
Cessna 172, 172A	Lycoming O-360 (180 hp)	76EM8 series	---	---
Cessna 177	Lycoming O-360 (180 hp)	76EM8 series	---	---
Piper J3C65, L4, Cub	Continental A-65	74CK-0-46	74CK-0-44	---
Piper PA-11, Cub, J4A	Continental A-65	74CK-0-46	74CK-0-44	---
Piper PA-11, PA-18, Cub	Continental C-90	76AK-2-42	---	76AK-2-46
Piper PA-18 Super Cub	Lycoming O-235-C1	76AM6-2-44	---	
Piper PA-18 Super Cub	Lycoming O-320 (150 hp)	74DM6-0-56	74DM6-0-54	74DM6-0-58
Piper PA-20 Pacer	Lycoming O-235-C1	76AM6-2-50	76AM6-2-48	76AM6-2-52
Piper PA-22-108 Colt	Lycoming O-235-C1B	76AM6-2-48	---	76AM6-2-50
Piper PA-20, PA-22	Lycoming O-290-D (125 hp)	74DM6-0-56	74DM6-0-54	---
Piper PA-22	Lycoming O-320 (150 hp)	74DM6-0-60	74DM6-0-58	---
Piper PA-28-140 Cherokee	Lycoming O-320 (150 hp)	74DM6-0-60	74DM6-0-58	---
Piper PA-38 Tomahawk	Lycoming O-235 (112 hp)	72CK-0-56	---	---
Piper PA-28 140, 4 Cherokee	Lycoming O-320 (150 hp)	74DM6-0-58	74DM6-0-56	---
Piper PA-28 150 Cherokee B	Lycoming O-320 (150 hp)	74DM6-0-58	74DM6-0-56	---
Piper PA-28 151 Warrior	Lycoming O-320 (150 hp)	74DM6-0-58	---	---
Piper PA-28 151 Warrior/160	Lycoming O-320 (160 hp)	74DM6-0-60	---	---
Piper PA-28 160 Cherokee B	Lycoming O-320 (160 hp)	74DM6-0-60	---	---
Piper PA-28 180 Archer	Lycoming O-320 (180 hp)	76EM8S5-0-60	---	---
Piper PA-28 180 Cherokee C	Lycoming O-320 (180 hp)	76EM8S5-0-60	---	---
Piper 181 Archer II ('78)	Lycoming O-320 (180 hp)	76EM8S5-0-62	---	---
Pitts Special S1S and S2	Lycoming I0-360	76EM8-0-56 to -61	---	---
Taylorcraft BC65, BCD12D	Continental A-65	74CK-0-48	74CK-0-46	---
Taylorcraft BC12D85, 485, 19	Continental C-85	74CK-2-46	74CK-2-44	---
Stoddard Hamilton Glasair ITD, FT,RG	Lycoming O-320 (160 hp)	---	---	---
Stoddard Hamilton Glasair IITD, FT,RG	Lycoming O-320 (160 hp)	---	---	---
Stoddard Hamilton Glasair IIITD, FT,RG	Lycoming O-320 (160 hp)	---	---	---
Tri-R (KIS)/116	Lycoming O-235-L2C	---	---	---
Van's RV-3/150, RV-4/150	Lycoming O-320 (150 hp)	---	---	---
Van's RV-3/160, RV-4/160	Lycoming O-320 (160 hp)	---	---	---
Van's RV-6/RV-6A150	Lycoming O-320 (150 hp)	---	---	---
Van's RV-6/RV-6A160	Lycoming O-320 (160 hp)	---	---	---
Zenith CH-2000/116	Lycoming O-235 (116 hp)	72CK-0-46	---	72CK-0-48
Zenith CH-2000A/150	Lycoming O-320 (150 hp)	74DM6S5-0-58	---	---
*All models listed are land planes.				

PLEASE SEE OUR WEBSITE OR CALL FOR QUOTE.

SENSENICH FLIGHT PERFORMANCE ALUMINUM PROPS FOR VANS AIRCRAFT

For the Lycoming 0-235 (125 HP): 72 CK Series Propeller..... 72 CK Series Propeller..... P/N 05-01468.....---

Both Systems Include:

- High Performance Fixed-Pitch Aluminum Propeller
- Attaching Hardware Included
- A full 2" dia. reduction allowed for repairs
- Propeller system that can be serviced anywhere.
- Aluminum Propeller Extension Included
- 2 yr or 200hr warranty (whichever comes first)
- Personalized service

Specify aircraft model, engine, & pitch (standard, climb, or cruise) when ordering. Also available for Murphy Rebel, Elite, Glasair, Thorp T-18, Tri-R, Midget Mustang, & many other homebuilts.

SENSENICH ALUMINUM PROP BOLT KITS

These propeller bolt kits for Sensenich aluminum propellers include the bolts and washers for propeller attachment.

Propeller Application	Bolt Kit Part No.	Price	Propeller Application	Bolt Kit Part No.	Price
69CK	AN6H-37AS	---	74DM6	BK74DM6	---
72CK	AN6H-37AS	---	76AM6	AN6H-33AS	---
74CK	AN6H-32AS	---	76EM8	AN8H-46AS	---
76AK	AN6H-32AS	---			

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PROPELLERS

SENSENICH WOOD PROPELLERS

Original equipment on Piper, Aeronca, Taylorcraft, Cessna, Ercoupe, Fairchild, and others. Metal tipping and high lacquer finish. Bolts and mounting plates not included. 18 lbs. each. FAA approved for certificated aircraft. Also excellent for experimental aircraft. Aircraft Spruce is an authorized Sensenich factory distributor. *Props w/asterisk are most commonly used props & are normally in stock for immediate shipment.

STANDARD PROP

Aircraft Models	Engine	Stnd. Prop	Part No.	Price	Climb Prop	Part No.	Price
Aeronca 7AC, 11AC, 11ACS	Cont. A65	W72CK-42	05-W72CK-42	---	W72CK-40	05-00583	---
		W72CK-44	05-W72CK-44	---	---	---	---
Cessna 120, 140	Cont. C85	W74FK-45	05-01808	---	W74FK-44	05-01809	---
Commonwealth 185	Cont. C85	W74FK-44	05-01809	---	---	---	---
Luscombe 8A	Cont. A65/C65	W76CK-42	05-01810	---	W76CK-40	05-01821	---
Piper J-3, J-4A, PA-11, A-17	Cont. A65/C65	W72CK-42	05-W72CK-42	---	W72CK-40	05-00583	---
Piper J-3 (Duster)	Cont. A75	W70DK-40	05-01811	---	---	---	---
Piper J-4E	Cont. A75	W70DK-42	05-01812	---	---	---	---
Piper J-4F, PA-15	Lyc. O-145B	W70LY-36	05-01813	---	---	---	---
PA-14, PA16, PA-18, PA-20	Lyc. O-235C1	W74FM-49	05-01814	---	W74FM-47	05-01819	---
PA-20, PA-22 125,135	Lyc. O-290D/D2	W74FM-54	05-01815	---	---	---	---
PA-18, PA18A	Lyc. O-290D/D2	W74FM-49	05-01814	---	W74FM-47	05-01819	---
T-Craft BC65, BC1265	Cont. A65	W72CK-42*	05-W72CK-42	---	---	---	---
L2, D65, DC065	---	---	---	---	---	---	---
T-craft BC12D	Cont. A65	W72CK-42	05-W72CK-42	---	W72CK-40	05-00583	---
BC12D1	---	---	---	---	---	---	---
Stinson 10, HW75	Cont. A70	W70Dk-40	05-01811	---	---	---	---

MCCAULEY MET-L-PROPS

Original equipment on most Cessna aircraft and popular with owners of many other designs. McCauley has earned an enviable reputation for producing high-performance propellers. Most popular numbers are available from local stock. The Met-L-Prop number designates the model, diameter and pitch. Example: CM7150 is a model CM propeller with a 71 inch diameter and 50 inch pitch. When ordering a new prop which requires a doweled spacer, both spacer and bolt kit are included. Spacers and bolt kits may also be ordered separately. When ordering, specify whether engine has a tapered or flanged crankshaft. Tapered crankshaft requires Kit No.B-4622-6. Flanged crankshaft requires Kit No.B-4622-9. Elliptical tip models 1A90/CF and square tip models 1B90/CM having the same diameter and pitch are directly interchangeable except for CF7538 on Cessna 150G, H, J and K model seaplanes.

Aircraft Model	Engine	Standard Prop	Cruise Prop	Climb Prop
Beech A23-24	Lyc.I0-360-A2B, A2D	BFA7762+	---	---
Bellanca 7ECA	Cont. 0-200A	ACM6948+	---	---
Bellanca 7ECA	Lyc. 0-235-C2C	CLM7246+	CLM7250	---
Bellanca 7GCA	Lyc. 0-320-A2B	GM7452	GM7455	GM7450
Cessna120,140	Cont. C-85	CM7148	CM7150	CM7146
Cessna120,140	Cont. C-90	CM7152	CM7154	---
Cessna 150A-F	Cont. 0-200A	MCM6950	---	---
Cessna150G-K	Cont. 0-200A	DCM6948	DCM6950	---
Cessna 150L	Cont. 0-200A	OCM6948+	---	---
Cessna 170A, B	Cont. C-145	MDM7655	MDM 7656	MDM7653
Cessna 172	Cont. 0-300A, B	MDM 7653	MDM7655	MDM7652

Aircraft Model	Engine	Standard Prop	Cruise Prop	Climb Prop
Cessna 172A-H	Cont. 0-300C, D	EM 7653	EM7655	EM7652
Cessna172I, K, L	Lyc. 0-320E2D	DTM7553+	---	---
Cessna 175	Cont. G0-300A, C	MFC8467	---	---
Cessna 175A,B	Cont. G0-300C, D	MFC8467	---	---
Cessna 177	Lyc. 0-320-E2D	TM7653+	---	---
Cessna 177A	Lyc. 0-360-A2F	EFA7656+	---	---
Great Lakes	Lyc. 0-320-E2A	EGM 7654	---	---
Luscombe 8A	Cont. A-75	CM7447	CM7449	---
Piper J3 Cub	Cont. C-85	CM7144	CM7146	---
Piper PA-18, 18A	Lyc 0-290-D2	GM8241`	---	---
Piper PA-32	Lyc.0-540-F4B5	PFA8266+	---	---

Applications for some Popular McCauley Props. All Models Available. Prices are the same for all props with the same letter prefix.

PLEASE SEE OUR WEBSITE OR CALL FOR QUOTE.

DUC PROPELLERS

COBRA

New design with high efficiency & optimized for direct drive engine •Direct installation on SAE2 propeller flange • Aerodynamic Constant Speed effect or wide flight range • Low fuel consumption & low noise • Carbon fiber blades and hub manufactured with aeronautical process • Reliable (Carbon finish on the blades, no paint) • Low weight & inertia • Tractor configuation, right hand (clockwise) • 2-blade (14lb) or 3-blade (18lb) • Diameter from 67 to 83 inches •Shielding leading edge in Inconel® • 20000 hours TBO • SAE2 bolt pattern (PCD 4-3/4") • Capable mounting: SAE2AN6/SAE2AN7/SAE2AN8 • Hydraulic Propeller **Application**: • Engines 150-315hp: Lycoming, Continental, Titan, UL Power **Configuration**: • AN6, AN7 and AN8

Description	Part No.	Price
2-Blade Inconel Right	05-27550	---
2-Blade Inconel Left	05-27551	---
3-Blade Inconel Right	05-27552	---
3-Blade Inconel Left	05-27553	---

TIGER

Duc Tiger line of in-flight adjustable carbon fiber propellers in three, four and even five bladed models. Although most other prop manufacturers machine their hubs from aluminum, Duc makes their hubs with specially "forged carbon fiber", utilizing a unique process. Duc makes their tiger propeller hubs with pre-preg carbon fiber, pressed into metal molds at 180 decrees Celsius and over 80 tons of pressure. The result is an incredibly durable structure, capable of handling the stresses of retaining, whirling and controlling propeller blades at more than 3000 rpm. The Tiger carbon fiber propeller blades have wider chords than previous models, designed to increase aerodynamic effectiveness. • 100-215 Hp

Decription	Part No.	Price
Electric variable pitch Tigerblack-R Propeller for Turbine - Feather/Reverse		
3-Blade Inconel Tiger Tractor	05-27554	---
4-Blade Inconel Tiger Tractor	05-27555	---
5-Blade IInconel Tiger Tractor	05-27556	---
Hydraulic Propeller Tigerblack-R - Right - Governor Not Included		
3-Blade Inconel Tiger Tractor	05-27557	---
4-Blade Inconel Tiger Tractor	05-27558	---

DUC ADJUSTING TOOL

Adjusting-tool for DUC propellers & others.
P/N 05-06806 ..... ---

DUC TURBO SPINNERS

Realized entirely out of carbon fibers, the Turbo spinner DUC 08.3" and 09.8" were studied and developed to support the cooling of the engine.
Very adapted in the case of engines with air cooling, it limits the variations in temperature engine between takeoff to full mode and the flight in cruising, but also in statics or on a taxiway. Adaptable to any type of engine generating a slight overheating regardless of its direction of rotation (Rotax, Continental, Limbach...), it is oriented for use on 4-stroke engines. In two-bladed or three-bladed version, the carbon fiber deflectors were placed around each foot of blade to allow an air admission in the entries of the engine cowling in statics and dynamics. These deflectors adapt perfectly on the DUC spinner 08.3" or 09.8".
The mounting plate, out of carbon fibers, is produced with the Carbone Forge® process for a higher mechanical resistance.

TURBO SPINNERS AND MOUNTING PLATES	Part No.	Price
Three-blade Turbo spinner 210mm	05-06801	---
Two-blade Turbo spinner 250mm	05-06803	---
Three-blade Turbo spinner 250mm	05-06804	---
Turbo deflector for 08.3" (210mm) spinner	05-06802	---
Turbo deflector for 09.8" (250mm) spinner	05-06805	---
Two-blade spinner mounting plate 210mm	05-06784	---
Three-blade spinner mounting plate 210mm	05-06786	---
Two-blade spinner mounting plate 250mm	05-06788	---
Three-blade spinner mounting plate 250mm	05-06790	---

DUC ADAPTOR PAWN FOR PROPELLER MOUNTING

DUC Adaptor Pawn spacers for propeller mounting.

Description	Part No.	Price
DUC Pawn 14 Drilled 8L 20mm 01-67-006	05-22370	---
DUC Pawn 13 Drilled 8L 40mm 01-67-015	05-22237	---
DUC Pawn 13 Drilled 8L 30mm 01-67-004	05-22236	---
DUC Pawn 13 Drilled 8L 20mm 01-67-003	05-22235	---
DUC Original Pawn Rotax 013 Threaded M8L 28mm	05-22238	---

DUC CLEANING TREATMENT

P/N 05-06808 ..... ---

INFLATABLE DOOR SEAL KITS

The Economy Manual version is a door mounted pressure bulb which is manually pumped by the pilot. Deluxe Manual remote locates the pressure pump underneath the panel next to the pilot along with a panel mounted pressure switch. The Electric version incorporates an electrically operated pump which maintains pressure by flipping a panel mounted switch.
Bob Fields Aerocessories was established vin 1975 providing inflatable door seals for over 45 years! Inflatable doors seals are made of a highly engineered vulcanized silicone rubber compound that will last for decades. All of our products are FAA-PMA approved and made in the USA. Our door seals are simple to install and can eliminate costly door adjustments and rigging labor costs due to their highly flexible and conforming values when inflated. It truly is an investment that can last a lifetime for your aircraft.
Bob Fields Aerocessories inflatable door seals are the only door seal that adds value to your aircraft. This seal provides a real return on investment when the time comes to sell your aircraft.

Model No.	Description	Aircraft Model	Version	Part No.	Price
3920-3	Electric Inflatable Door Seal For Mooney M20A Through K	Mooney M20A THROUGH K	Electric	05-26404	---
3920-3-7	Deluxe Manual Inflatable Door Seal For Mooney M20A Through K	Mooney M20A THROUGH K	Deluxe Manual	05-26405	---
3920-3-8	Economy Manual Inflatable Door Seal For Mooney M20A Through K	Mooney M20A THROUGH K	Economy Manual	05-26406	---
8301-5	Electric Inflatable Door Seal For Bellanca	Bellanca	Electric	05-26407	---
8301-4D	Deluxe Manual Inflatable Door Seal For Bellanca	Bellanca	Deluxe Manual	05-26408	---
8301-D	Economy Manual Inflatable Door Seal For Bellanca	Bellanca	Economy Manual	05-26409	---
3920-2	Electric Inflatable Door Seal For Piper PA-28 -32 -34 Front	Piper PA-28 -32 -34 - Front Cabin Only	Electric	05-26410	---
3920-2-7	Deluxe Manual Inflatable Door Seal For Piper PA-28 -32 -34 Front	Piper PA-28 -32 -34 - Front Cabin Only	Deluxe Manual	05-26411	---
3920-2-8	Economy Manual Inflatable Door Seal For Piper PA-28 -32 -34 Front	Piper PA-28 -32 -34 -Front Cabin Only	Economy Manual	05-26412	---
3920-2R	Electric Inflatable Door Seal For Piper PA-32 & 34 Front & Rear	Piper PA-32 -34 - Front And Rear Doors	Electric	05-26413	---
3920-2-7R	Deluxe Manual Inflatable Door Seal For Piper Pa-32 & 34 Front & Rear	Piper PA-32 -34 - Front And Rear Doors	Deluxe Manual	05-26414	---
3970	Electric Inflatable Door Seal For Piper Pa-24 -30 -39	Piper PA-24 -30 -39	Electric	05-26415	---
3970-8	Deluxe Manual Inflatable Door Seal For Piper PA-24 -30 -39	Piper PA-24 -30 -39	Deluxe Manual	05-26416	---
3970-9	Economy Manual Inflatable Door Seal For Piper PA-24 -30 -39	Piper PA-24 -30 -39	Economy Manual	05-26417	---
3950-4	Electric Inflatable Door Seal For Beechcraft - Front Cabin Only	Beechcraft - Front Cabin Only	Electric	05-26418	---
3950-4-6	Deluxe Manual Inflatable Door Seal For Beechcraft - Front Cabin Only	Beechcraft - Front Cabin Only	Deluxe Manual	05-26419	---
3950-4-7	Economy Manual Inflatable Door Seal For Beechcraft - Front Cabin Only	Beechcraft - Front Cabin Only	Economy Manual	05-26420	---
3950-4R	Electric Inflatable Door Seal For Beech 36-58 - Front And Rear Doors	Beech 36-58 - Front And Rear Doors	Electric	05-26421	---

WARP DRIVE ADVANCED COMPOSITE PROPELLERS

Warp Drive's Advanced Composite Carbon Fiber propeller has a structural strength near that of metal propellers. Because of the stiffness achieved by using carbon fibers, the prop will do very little coning (bending forward) under power. Proper fiber placement allows the prop to flex torsionally for maximum cruise efficiency. The strongly fixed position of the blades along with optimum torsional performance translates into more thrust than conventional propellers.

The interior structure of this new propeller is all carbon fiber - no fiberglass, no foam, no filler - an all carbon fiber matrix combined with top quality hybrid epoxies. Carbon fiber is one of the strongest building materials available. When properly engineered, carbon fiber can achieve the strength and stiffness of a metal part, as demonstrated by its wide range of industrial and aerospace uses.

WARP DRIVE PROPELLER BLADE TYPES

All propellers and blade types are available with Stainless Steel Leading Edge protection as an option at additional cost.

1. STANDARD ADVANCED COMPOSITE CARBON FIBER BLADES
   The Standard Carbon Fiber Blades can be used on Rotax, Arrow, VW and similar engines.
2. HIGH HORSE POWER ADVANCED COMPOSITE CARBON FIBER BLADES
   The Carbon Fiber HP Blades will be required for use on Lycoming, Continental and some auto conversion engines.

WARP DRIVE HUBS

Warp Drive offers two types of hubs of our propellers. First is our Standard Hub. This is an assembly of anodized aluminum plates and composite clamping blocks. It accommodates standard and custom hub bolt patterns of up to 3 1/8".

The second type of hub is the HP Hub. This hub consists of two halves machined from solid aluminum. It is the same weight as the standard hub assembly and can accommodate Rotax, Arrow, VW, SAE I Continental, SAE II Lycoming and custom bolt patterns.

STANDARD CARBON FIBER PROPELLER

4-Blade Std Carbon Fiber Propeller.....P/N 05-31930 ..... ---
Replacement Std Carbon Fiber Blade .....P/N 05-31935 ..... ---

WITH HP HUB

2-Blade Std.....P/N 05-31940 ..... ---

HIGH HORSE POWER CARBON FIBER PROP WITH HP HUB

2-Blade Carbon Fiber H/P w/HP Hub .....P/N 05-31950 ..... ---
3-Blade Carbon Fiber HP w/HP Hub .....P/N 05-31955 ..... ---
Replacement Carbon Fiber HP .....P/N 05-31960 ..... ---
Mounting Hardware (Rotax) .....P/N 05-31965 ..... ---
Protractor.....P/N 05-31970 ..... ---
Non-Standard Hub Pattern.....P/N 05-31975 ..... ---
"HP" Hub (purchased separately) .....P/N 05-31985 ..... ---

ORDERING A PROPELLER

We request all applicable information below when you are ordering:

1. Name, Address, Phone Number(s)
2. Vehicle - type, make, model, cruise speed, tractor/pusher,
3. Engine - make, horse power,
4. Reduction Drive - type, ratio. If there is no reduction drive, (State Prop RPM)
5. Hub Requirements - A) Bolt circle dia, B) Number of bolts, C) Bolt dims, D) Center hole dims, E) Drive lug dimensions (if applicable),
6. Propeller Description-rotation, diameter, structural limitation of diameter manufacturer's suggested prop description, no. of blades, tractor or pusher.

QUICK ADJUST SYSTEM IVOPROPS

The Quick Adjust System Ivoprops allow you to adjust the pitch on the ground in a matter of seconds by turning the screw adjustor in the center of the prop. Specify aircraft and engine make and model, and propeller diameter. • Magnum Ivoprop (5.5" cord, 58" to 76" diameter) is a high-horsepower version for engines up to 700 HP.
• Magnum Paddle Ivoprop (5.5" constant cord, 58" to 84" diameter" is for high-horsepower air boats and bush planes.

Note: Not Recommended for Lycoming Powered Aircraft.

Description	Part No.	Price
1 Blade Ultralight Standard Lefthand	15-05478	---
1 Blade Ultralight Standard Righthand	15-05856	---
1 Blade Ultralight Hi-Pitch Lefthand	15-05477	---
1 Blade Ultralight Hi-Pitch Righthand	15-06638	---
2 Blade Ultralight Standard Lefthand	15-04749	---
2 Blade Ultralight Standard Righthand	15-06312	---
2 Blade Medium Standard Lefthand	15-08279	---
2 Blade Medium Standard Righthand	15-07899	---
2 Blade Ultralight Hi-Pitch Lefthand	15-06932	---
2 Blade Ultralight Hi-Pitch Righthand	15-06933	---
3 Blade Ultralight Standard Lefthand	15-04785	---
3 Blade Ultralight Standard Righthand	15-06326	---
3 Blade Medium Standard Lefthand	15-06325	---
3 Blade Medium Standard Righthand	15-04784	---
3 Blade Ultralight Hi-Pitch Lefthand	15-06972	---
3 Blade Ultralight Hi-Pitch Righthand	15-07224	---
6 Blade Ultralight Standard Lefthand	15-08274	---
6 Blade Ultralight Standard Righthand	15-08275	---

IN-FLIGHT ADJUSTABLE PITCH IVOPROPS

The In-Flight Adjustable Pitch Ivoprop allows the pilot to change the propeller pitch in flight through a toggle switch mounted in the cockpit. Mounts directly to any Rotax gear box (B or C0 and can be adapted to VW, Subaru, Hirth, Arrow and smaller Lycoming and Continental engines. Older model Ivoprop ground adjustable props can be converted to the In Flight System with the Retrofit Kit. In Flight adjustable hub comes assembled with complete instructions. Weight of 3 blade 72" Prop including all required parts (furnished) is 9 lbs. Specify aircraft and engine make and model, and propeller diameter (48" to 76"). Magnum Ivoprops are for engines up to 700 HP (56"-76" prop. dia.).

Magnum 2-Blade Ivoprop Kit.....P/N 05-33270 ..... ---
Magnum 3-Blade Ivoprop Kit.....P/N 05-33280 ..... ---
Magnum 6-Blade Ivoprop Kit.....P/N 05-33290 ..... ---
Magnum Retrofit Kit for Ground Adjustable Ivoprops
P/N 05-33295 ..... ---

IVOPROP REPLACEMENT BLADES

Note: Proproot Number required prior to order. (This number can be found at the base of the original prop blade).

High Pitch Right Hand.....P/N 15-06638 ..... ---
High Pitch Left Hand .....P/N 15-05477 ..... ---
Standard Pitch Right Hand.....P/N 15-05856 ..... ---
Standard Pitch Left Hand .....P/N 15-05478 ..... ---

ULTRA-PROP

Select 2, 3, or 4 blade props. Each blade is moulded from a high strength glass-reinforced composite. High efficiency airfoil design means high thrust from a 59" diameter prop. One set of pitch blocks included, additional blocks available in 1° increments. Universal hubs made from high strength composite. Accommodates most popular bolt-mounting patterns. Each prop comes complete with all assembly and mounting hardware, and complete instructions. Black blades and hub are beautifully complemented by high impact polyester spinner. Blades can be trimmed to length, allowing custom prop diameters as small as 48".

Description	Part No.	Price	Description	Part No.	Price
Kit 2 Blade LH	UP102L	---	Kit 2 Blade RH	UP102R	---
Kit 3 Blade LH	UP103L	---	Kit 3 Blade RH	UP103R	---
Kit 4 Blade LH	UP104L	---	Kit 4 Blade RH	UP104R	---
Kit 5 Blade LH	05-06455	---	Kit 5 Blade RH	05-06456	---
Kit 6 Blade LH	05-06457	---	Kit 6 Blade RH	05-06458	---

ACCESSORIES

Description	Part No.	Price
Pitch Block Set 13 DG	UP13	---
Bolt Sleeve Set	UPSLEEVE	---
Hardware Pack	UPHDW	---
Hub half 2 Blade	UP1072	---
Hub Half 3 Blade	UP1073	---
Hub Half 4 Blade	UP1074	---

STEEL LEADING EDGE PROP TAPE

Stainless Steel leading edge tape. This part replaces the leading edge tape on the Ivoprop .....P/N 15-06059 ..... ---

CONSTANT SPEED ELECTRONIC GOVERNOR

• Converts In-Flight Adjustable Ivoprop into the constant speed propeller • Plugs into existing wiring harness • Size: 2" x 4" x 1"

P/N 05-00601 ..... ---

PROPELLER ENGINE BALANCE MASTER

Balance Masters® are PATENTED, DESIGNED, MANUFACTURED AND DISTRIBUTED IN THE U.S.A. and are easy-to-install devices for propellers and Rotax engines. These devices cut the vibration factor on ultralight aircrafts by as much as 50 percent when both balancers are installed.

Balance Masters® are weighted with a high density liquid mass (Mercury). The physical principles of centrifugal and gyroscopic forces explain the action of the Balance Masters®. With the Balance Masters installed, the weighted liquid mass (Mercury) in the apparatus shifts during spinning, and adjusts to compensate for imbalances due to such factors as changes in flying conditions or warpage in the propeller, from nicks and rocks during takeoffs and landings. The Propeller Balance Masters® mounts on the propeller shaft or gear box in conjunction with the propeller. It is less than 7 inches in diameter.

The Engine Balance Master is made to fit most Rotax engines and bolts under the Starter Pulley on the Fly Wheel side of the engine. It is less than 5 inches in diameter. Each device weighs about 4 oz. Installation will take about 25-30 minutes using ordinary hand tools for each device. Balance Master is designed to fit most propeller bolt patterns and Rotax engines from 277FA through 582. We will need to know the manufacturer of your propeller and engine model to determine the right configuration.

Description	Part No.	Price
Off-Set Prop Balancer	15-05828	---
Balancer for Engine Rotax 912, 914	15-09450	---
Balancer for Engine Rotax 377, 447, 503	15-05261	---
Balancer for Engine Rotax 582, 618	15-05260	---

POLYMER SPINNER WASHERS

Propeller spinner washers are typically made from thin nylon. They are usually replaced every time the spinner is removed because the screw pressure against the spinner curvature causes the nylon washers to fail. Instead of nylon, these washers are machined from an extruded billet of a, very tough polymer material – the toughest we make – so they won't crack or extrude. The washers easily conform to the spinner's curved surface and will serve without replacement for a very long time. In fact, they may never need replacement! Fits a # 10 screw, with a diameter and thickness to suit the round head stainless steel screw usually used for prop spinners.

SCREWS NOT INCLUDED PACKAGED IN BAGS OF 25

Color	Description	Part No.	Price
Yellow	Spinner Washers Pack of 25	05-12883	---
Clear	Spinner Washers Pack of 25	05-15422	---
Gray	Spinner Washers Pack of 25	05-15423	---

HARTZELL PROPELLER HARDWARE

Description	Part No.	Price
Hartzell Prop O-Ring C-3317-228	05-11998	---
Hartzell Prop O-Ring C-3317-230	05-12380	---
Hartzell Prop Fiber Washer A-1020	05-11999	---
Hartzell Prop Screw B-3845-8	05-12001	---
Hartzell Prop O-Ring C-3317-028	05-12509	---
Hartzell Propeller Nut B-3808-4	05-21990	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

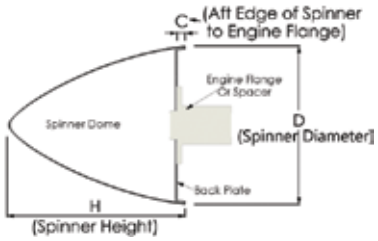
WHIRLWIND PROPELLERS

WhirlWind Propellers makes ground adjustable and constant speed propellers. Blades are made of carbon fiber with an electro-formed nickel leading edge and hubs are CNC machined from aircraft grade aluminum. These are the lightest, highest performing propellers in LSA, STOL, and High Speed aviation.
All Propeller Orders Include Blades, Hub, and Hardware

Engine	HP	Mounting Bolts	Flange Bolt Pattern	Application	Prop	D	Blades	Wt (lb)	WWP ID	Part No.	Price
CONSTANT SPEED PROPELLERS**											
Lyc 320/340	150-160 HP	7/16"	SAE2, 4-3/4"	Const. Speed	CS-300	72"	3	36	CS-300-72"-716	05-26423	---
Lyc 360/390	180-210 HP	1/2"	SAE2, 4-3/4"	Const. Speed	CS-300	72"	3	36	CS-300-72"-816	05-26424	---
Lyc 540	260-300 HP	1/2"	SAE2, 4-3/4"	Const. Speed	CS-300	79"	3	39	CS-300-79"-816	05-26425	---
LYCOMING-TYPE GROUND ADJUSTABLE PROPELLERS											
Cont O-200 or Lyc 235	100-125 HP	3/8"	4-3/8"	Standard	GA-200CN	72"	2	12	GA-200CN-72"	05-12605	---
Lyc 290	130 HP	3/8"	SAE2, 4-3/4"	High Speed	GA-200L	68"	2	15	GA-200L-68"-616	05-26426	---
Lyc 320/340	150-160 HP	3/8"	SAE2, 4-3/4"	High Speed	GA-200L	70"	2	15	GA-200L-70"-616	05-26427	---
		3/8"	SAE2, 4-3/4"	High Speed	GA-200L	72"	2	16	GA-200L-72"-616	05-26429	---
		7/16"	SAE2, 4-3/4"	High Speed	GA-200L	70"	2	16	GA-200L-70"-716	05-26428	---
		7/16"	SAE2, 4-3/4"	High Speed	GA-200L	72"	2	17	GA-200L-72"-716	05-26430	---
Lyc 360	180 HP	1/2"	SAE2, 4-3/4"	High Speed	GA-200L	72"	2	18	GA-200L-72"-816	05-26431	---
LYCOMING-TYPE STOL GROUND ADJUSTABLE PROPELLERS											
Lyc 320/340	150-160 HP	3/8"	SAE2, 4-3/4"	STOL	GA-200L STOL	76"	2	17	GA-200L STOL-76"-616	05-26432	---
		3/8"	SAE2, 4-3/4"	STOL	GA-200L STOL	78"	2	18	GA-200L STOL-78"-616	05-26434	---
		7/16"	SAE2, 4-3/4"	STOL	GA-200L STOL	76"	2	17	GA-200L STOL-76"-716	05-26433	---
		7/16"	SAE2, 4-3/4"	STOL	GA-200L STOL	78"	2	18	GA-200L STOL-78"-716	05-26435	---
Lyc 360	180 HP	1/2"	SAE2, 4-3/4"	STOL	GA-200L STOL	80"	2	18	GA-200L STOL-80"-816	05-26436	---
			SAE2, 4-3/4"	STOL	GA-200L STOL	82"	2	18	GA-200L STOL-82"-816	05-26437	---
Lyc 390	210 HP	1/2"	SAE2, 4-3/4"	STOL	GA-300L STOL	78"	3	26	GA-300L STOL-78"-816	05-26444	---
ROTAX GROUND ADJUSTABLE PROPELLERS											
Rotax 912/914	80-100 HP	5/16"	4" Non-Threaded*	Standard	GA-RW3B	68"	3	8	GA-RW3B-68"-(No-Thread)	05-11166	---
	100 HP	5/16"	4" Non-Threaded*	Standard	GA-RW3B	70"	3	8	GA-RW3B-70"-(No-Thread)	05-06850	---
	100-115 HP	5/16"	4" Non-Threaded*	STOL	GA-RW3B STOL	75"	3	9	GA-RW3B STOL-75"-(No-Thread)	05-12339	---
	80-100 HP	5/16"	4" Threaded*	Standard	GA-RW3B	68"	3	8	GA-RW3B-68"-(Thread)	05-26448	---
	100 HP	5/16"	4" Threaded*	Standard	GA-RW3B	70"	3	8	GA-RW3B-70"-(Thread)	05-26449	---
	100-115 HP	5/16"	4" Threaded*	STOL	GA-RW3B STOL	75"	3	9	GA-RW3B STOL-75"-(Thread)	05-26450	---
Rotax 915	140 HP	5/16"	4" Non-Threaded*	Standard	GA-R3B	70"	3	8	GA-R3B-70"-(No-Thread)	05-26447	---
			4" Threaded*	Standard	GA-R3B	70"	3	8	GA-R3B-70"-(Thread)	05-26446	---
UL POWER AND JABIRU GROUND ADJUSTABLE PROPELLERS											
UL260	100 HP	5/16"	4"	Standard	GA-UL260 2B	66"	2	8	GA-UL260 2B-66"	05-12613	---

WHIRLWIND GOVERNORS

Engine	HP	Mounting Bolts	Flange Bolt Pattern	Application	Prop	D	Blades	Wt (lb)	WWP ID	Part No.	Price
UL350	130 HP	5/16"	4"	STOL	GA-UL350 2B	70"	2	9	GA-UL350 2B-70"	05-26451	---
			4"	Standard	GA-UL350 3B	66"	3	12	GA-UL350 3B-66"	05-12614	---
Jabiru 3300	107 HP	5/16"	4"	Standard	GA-J2B	65"	2	8	GA-J2B-65"	05-11835	---



F = Finish Options
(S1) Primer finish; a white primer ready for painting
(S2) Dark Matter finish; a natural carbon fiber semi-gloss gel coat.
- For maximum gloss and UV protection, it is recommended that customers apply a clear urethane top coat to the Dark Matter Spinners.

Propeller Model	Engine Type	Diameter	F	C	Part No.	Price
GA-200L-70" or 68"	Cont 200 or Lyc 235	11.3"	S1	0.65"	05-26463	---
	Lyc 290/320/340	12.0" Cub	S2	0"	05-26466	---
		320/340	S1	0"	05-26475	---
		12.0" Univ	S2	0.65"	05-26484	---
		12.0" Univ	S1	0.65"	05-26493	---
		13.0"	S1	0.5"	05-26502	---
	Lyc 360	12.0" Cub	S2	0"	05-26467	---
		Lyc 360	S1	0"	05-26476	---
		12.0" Univ	S2	0.65"	05-26485	---
		12.0" Univ	S1	0.65"	05-26494	---
		13.0"	S1	0.5"	05-26503	---
GA-200L-72"	Lyc 320/340	12.0" Cub	S2	0"	05-26468	---
		Lyc 320/340	S1	0"	05-26477	---
		12.0" Univ	S2	0.65"	05-26486	---
		12.0" Univ	S1	0.65"	05-26495	---
		13.0"	S1	0.5"	05-26504	---
	Lyc 360	12.0" Cub	S2	0"	05-26469	---
		Lyc 360	S1	0"	05-26478	---
		12.0" Univ	S2	0.65"	05-26487	---
		12.0" Univ	S1	0.65"	05-26496	---
		13.0"	S1	0.5"	05-26505	---

RV Spinner Includes Fwd Bulk Head

Note: All 12.0" Cub Spinners have a forward facing back plate with C = 0"

Propeller Model	Engine Type	Diameter	F	C	Part No.	Price
GA-200L-STOL-76" or 80"	Lyc 320/340	12.0" Cub	S2	0"	05-26470	---
		Lyc 320/340	S1	0"	05-26479	---
		12.0" Univ	S2	0.65"	05-26488	---
		12.0" Univ	S1	0.65"	05-26497	---
		13.0"	S1	0.5"	05-26506	---
	Lyc 360	12.0" Cub	S2	0"	05-26471	---
		Lyc 360	S1	0"	05-26480	---
		12.0" Univ	S2	0.65"	05-26489	---
		12.0" Univ	S1	0.65"	05-26498	---
		13.0"	S1	0.5"	05-26507	---
GA-200L-STOL-78" or 82"	Lyc 320/340	12.0" Cub	S2	0"	05-26472	---
		12.0" Cub	S1	0"	05-26481	---
		12.0" Univ	S2	0.65"	05-26490	---
		12.0" Univ	S1	0.65"	05-26499	---
		13.0"	S1	0.5"	05-26508	---
	Lyc 360	12.0" Cub	S2	0"	05-26473	---
		12.0" Cub	S1	0"	05-26482	---
		12.0" Univ	S2	0.65"	05-26491	---
		12.0" Univ	S1	0.65"	05-26500	---
		13.0"	S1	0.5"	05-26509	---
GA-300L-STOL-78"	Lyc 390	12.0" Cub	S2	0"	05-26474	---
		12.0" Cub	S1	0"	05-26483	---
GA-J2B	Jabiru	9.0"	S1	0.65"	05-26453	---
		9.75"	S1	0.65"	05-26457	---
		11.3"	S1	0.65"	05-26461	---
GA-R2B	Rotax	9.0"	S1	0.65"	05-26454	---
		9.75"	S1	0.65"	05-26458	---
		11.3"	S1	0.65"	05-26462	---
GA-RW3B or GA-R3B	Rotax	9.75"	S1	0.65"	05-26459	---
		11.3"	S1	0.65"	05-26465	---
		12.0" Univ	S2	0.65"	05-26492	---
		12.0" Univ	S1	0.65"	05-26501	---
GA-UL260-2B or GA-UL350-2B	UL Power	9.0"	S1	0.65"	05-26452	---
		9.75"	S1	0.65"	05-26455	---
		11.3"	S1	0.65"	05-26460	---
GA-UL350-3B	UL Power	9.75"	S1	0.65"	05-26456	---
		11.3"	S1	0.65"	05-26464	---

PCU 5000 PROPELLER GOVERNORS

The PCU5000 is lightweight, compact & pumps 30 - 35% more oil which maintains a perfect constant-speed.

Features:

- Compact / Weighs 2 lbs. less than most conventional governors
- New units at a lower cost
- Easy installation - hardware included
- TBO - same as your engine
- 3 year limited warranty
- 4 year extended warranty available

PCU5000 - FAA-PMA Approved for single engine Cessna, Beechcraft /Raytheon, Remis, Mooney and Piper aircraft. Certified models fit all: Lycoming, Continental and *Rotax engines *(applicable if mounting pad conforms to AND20010)

PCU5000X - Experimental - The PCU5000X is specially engineered for single engine experimental aircraft and can be customized to a specific application.

Experimental models fit all: Lycoming, Continental, Superior Air Parts, Engine Components and *Rotax engines *(applicable if mounting pad conforms to AND20010)

Complete engine number required for order on each model.

PCU5000X Experimental Prop Governor ..... P/N 05-04750 ..... ---

PCU5000 Certified Prop Governor for McCauley / Woodward ..... P/N 05-04751 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PROPELLER BALANCERS

DYNAVIBE PROP BALANCER

DynaVibe is an economical, state-of-the-art dynamic propeller balancer designed specifically for the aircraft industry. DynaVibe displays the magnitude and phase of propeller vibration allowing precise weight adjustments for balanced and smooth engine operation. * Economical - including: • Dynamic Balancer • Accelerometer with 30 ft cable • Optical Pickup and Reflective Tape (Tach) • Carrying Case • No hidden costs or additional items to buy! * Accurate - Reports RPM, Vibration Magnitude * Results - Reduce vibration for a smoother flight, and decrease mechanical wear of engine and instruments

Aircraft Prop Balancer ..... P/N 05-04532 ..... ---
Aircraft Prop Balancer with NIST ..... P/N 05-04533 ..... ---
Rotocraft Prop Balancer ..... P/N 05-04534 ..... ---
Rotocraft Prop Balancer with NIST ..... P/N 05-04535 ..... ---

RETROREFLECTIVE TAPE FOR DYNAVIBE

This tape has a printed triangular pattern which provides strong visibility because of its reflective surface..... P/N 05-10645 ..... ---

BUZZ MASTER PROP BALANCER

This extremely simple and sensitive tool uses the plum-bob and bevel principle to balance props both vertically and horizontally. It can be carried in a small tool box for easy use in the field and balances props accurately for smooth operation. The precision machined hub works with any prop designed with standard 1" center hole. Illustrated instructions included ..... P/N 13-17400 ..... ---

DIGITAL RECHARGEABLE PROPELLER PROTRACTOR

The Protector is a precision, highly accurate and simple to use device for checking, setting or changing propeller pitch. The resolution and repeatability is 0.05 degree and the accuracy is +/- 0.1 degree. It is powered with a standard 9 volt battery with approximately one year use life.

P/N 12-04974 ..... ---

DYNAVIBE GX3 PROFESSIONAL PROP BALANCER AND VIBRATION ANALYZER

DynaVibe GX3 (DynaTrack Optional)
The DynaVibe GX3 has all the balancing and vibration analysis features of the DynaVibe GX2 and adds helicopter track and balance capability. The GX3's rotorcraft mode allows multiple vibration readings to be taken per flight and can be operated with a push-to-talk switch. This is ideal for single-operator operation. When used in conjunction with the DynaTrack optical tracker accessory, the DynaVibe GX3 measures blade track simultaneously with vibration measurements.
DynaTrack Optical Tracker Accessory (DynaVibe GX3 Required)
The DynaTrack optical tracking accessory for the DynaVibe GX3 measures blade track for up to 6 blades. The DynaTrack mounts conveniently to the windscreen with a suction cup which makes setup quick and easy.

DynaVibe GX3 ..... P/N 05-14970 ..... ---
DynaVibe GX3 & DynaTrack Kit ..... P/N 05-14680 ..... ---
DynaVibe DynaTrack ..... P/N 05-14678 ..... ---

PROPELLER BALANCING BUSHING KITS

Propeller Balancing Bushing Kit
Fine tune propeller balance with this accurate and easy to use bushing kit!
An out of balance propeller can lead to harmful vibrations and costly aircraft maintenance. Costly issues that may arise include:
- Excessive load on crankshaft bearings
- Cracking of propeller and spinner bulkheads
- Engine mount wear and deterioration
- Distracting airframe vibration

These bushing kits make it possible to check the static balance of a propeller quickly and accurately.

Description	Specifications	Part No.	Price
129 Propeller Bushing Kit	1-1/4 to 1-1/2 Taper type axle sizes as in the Cessna 30 & 400 series	05-12919	---
129 Balancer Tool	For use with the 129 PBK - ONLY	05-12922	---
108 Propeller Bushing Kit	1-1/4 to 1-1/2 axle sizes	05-12920	---

AP

RAPCO DE-ICERS / ICE SHIELD

ICE SHIELD DE-ICING SYSTEMS

Ice Shield is a *FASTER, BETTER, SMARTER.* way to get your aircraft out of icing conditions.

Wing Boots

Heated Prop Boots

Wire Harnesses

Engine Inlet Boots

Committed to delivering the best value in pneumatic wing boots, both Standard and Pressure Sensitive Adhesive (PSA) wing boots are interchangeable with original equipment.

A world-wide network of certified installation centers provides convenience in choosing the closest location for any aircraft owner or operator.

- No-hassle warranty
- Easy, direct access to technical support
- Best value in de-icing parts
- First class customer service

STANDARD ICE SHIELD BOOTS

- 48-hour delivery to the Continental US or US based freight forwarder
- Rugged, polymer construction ensures strength and longevity
- Trusted in the marketplace for the past 20 years

ICE SHIELD PSA™

- 72-hour delivery to the Continental US or US based freight forwarder
- Quicker, neater, cleaner installation
- Fly aircraft immediately *Peel.Stick.Fly™*
- Minimal use of solvents
- Reduced labor hours

Ice Shield PSA products are not available for sale or shipment to Canada, U.K., Germany, or France.
Ice Shield standard wing boots are available for sale and shipment worldwide.

ICE SHIELD IS AVAILABLE TO AIRCRAFT SPRUCE DEALERS!
CALL 1-877-4SPRUCE

AP

MCCAULEY DE-ICE BRUSH CLUSTERS FROM RAPCO

These McCauley De-Ice Brush Clusters from Rapco are FAA-PMA approved and are applicable to any aircraft using the McCauley style brush blocks. Two clusters per block are required. Brush clusters with dash numbers require one of each dash number per block.

RAPCO No.	Block No.	Installation	Part No.	Price
RAB40012	C40010	Cessna: T182, TR182, 340A, 402C, 404, 414A, 421C, 425	05-01326	---
RAB40046	C40055	Cessna: U206G, TU206G, 210N, P210N, T210N, 210R, T210R, 310P, T310P, 310Q, T310Q, 310R, T310R, 441	05-01328	---
RAB40189	C40179	Cessna: T182, TR182, 340A, 402C, 404, 414A, 421C, 425	05-01327	---
RAB40193	C40187	Cessna: U206G, TU206G, 210N, T210N, 210R, P210N, T210R, T303, 441	05-01329	---
RAC40256-1	C40257	Raytheon: F33A, V35B, A36, B36TC, 58, 58A, 58P, 58PA, 58TC, 58TCA, B200, B200C, B200CT, B200T	05-01330	---
RAC40256-2	C40257	Raytheon: F33A, V35B, A36, B36TC, 58, 58A, 58P, 58PA, 58TC, 58TCA, B200, B200C, B200CT, B200T	05-01331	---
RAB40332	C40331	Fairchild: SA227-AT, SA227-AC, SA227-BC, SA227-CC, SA227-DC	05-01334	---
RAC40371-1	C40363	Raytheon: B200, B200C, B200T, B200CT, A200CT	05-01332	---
RAC40371-2	C40363	Raytheon: B200, B200C, B200T, B200CT, A200CT	05-01333	---
RAC40464-1	C40463 & C40685	Beechcraft: 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B, (T42), 95-C55, 95-C55A, 95-D55, 95-D55A, 95-E55, 95-E55A, A200CT (RC-12K), A200CT (RC-12P), A200CT (RC-12Q)	05-13270	---
RAC40464-2	C40463 & C40685	Beechcraft: 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B, (T42), 95-C55, 95-C55A, 95-D55, 95-D55A, 95-E55, 95-E55A, A200CT (RC-12K), A200CT (RC-12P), A200CT (RC-12Q)	05-13271	---
RAC40522-1	C40660	Cessna: 182S, 182T, T182T, 206H, T206H	05-13273	---
RAC40522-2	C40660	Cessna: 182S, 182T, T182T, 206H, T206H	05-13274	---

RA1649 HUB EXTENDER

3 wire, 9 1/2" long, ring terminals. Replaces: BFG PN. 3E1549. BFG: Most BFG de-ice part numbers convert to RAPCO part numbers by changing the prefix to RA and adding 100 to the base number.

P/N 05-11753 ..... ---

DEICE BRUSH MODULE SPACERS

Spacers are replacement parts for the Modular De-ice brush assemblies.

Model No.	Replaces	Description	Part No.	Price
RA2318-3	BFG P/N 3E2218-3	1 5/8" W x 1 1/2" L x 3/32" T	06-02936	---
RA2318-4	BFG P/N 3E2218-4	1 5/8" W x 1 1/2" L x 1/8" T	06-02937	---
RA2318-5	BFG P/N 3E2218-5	1 5/8" W x 7/8" L x 5/16" T	06-02938	---
RA2318-6	BFG P/N 3E2218-6	1 5/8" W x 1 3/8" D x 5/16" T	06-02939	---

RA2111U UNIVERSAL DE-ICE BRUSH MODULE KIT

RA2111U Universal Brush Module Kit with unrodded brush, wire markers, terminal and spacer. Replaces: BFG PNs. 3E2011-1 thru -6 & -8 brush modules with unrodded brushes.

P/N 05-11763 ..... ---

RA2111U-ROD UNIVERSAL DE-ICE BRUSH MODULE KIT WITH ROD

RA2111U Universal rodded brush module kit with wire markers, terminal and spacer. Replaces: BFG PN. 3E2011-1 thru -6, -8 & -10 brush modules with rodded brushes.

P/N 05-11764 ..... ---

RA2040-1 WEAR STRIP

Insert for brush slots on BFG heavy duty brush blocks assemblies PNs. 4E3196-1 or 4E3197-1, used on Beechcraft 1900, 1900C (C-12J), 1900D.

P/N 06-02935 ..... ---

RAPCO WIRE HARNESSES

Model No.	Replaces	Description	Part No.	Price
RA1656	BFG PN. 3E1556	Hub Extender. 3 wire, 8 1/4” long, ring terminals	05-12591	---
RA1989-2	BFG PN. 4E1889-2 Safeway PNs. 6976, D-5735-1	3 wire, 13 3/4” long, ring terminals	05-11755	---
RA1989-3	BFG PN. 4E1889-3 Safeway PN. 6959	3 wire, 13” long, ring terminals	05-11756	---
RA1989-4	BFG PN. 4E1889-4 Safeway PN. 6871	3 wire, 15 3/4” long, ring terminals	05-11757	---
RA2067-1	BFG PN. 4E1967-1 Safeway PN. 6962	3 wire, 15” long, ring terminals & butt splices	05-11759	---
RA2067-2	BFG PN. 4E1967-2 Safeway PN. 6963	3 wire, 18” long, ring & butt terminals	05-11760	---
RA2067-3	BFG PN. 4E1967-3 Safeway PN. 6964	3 wire, 14” long, ring & butt terminals	05-11761	---
RA2067-4	BFG PN. 4E1967-4 Safeway PN. 6965	3 wire, 15” long, ring terminals & butt splices	05-11762	---
RA2117-4	BFG PN. 3E2017-4 Safeway PN. 6881	2 wire, 15 1/2” long, ring terminals	05-11765	---
RA2117-8	BFG PN. 3E2017-8, Safeway PN. 6951	2 wire, 17 3/8” long, ring terminals	05-12592	---
RA2150	BFG PN. 3E2050-2 Safeway PN. 6961	2 wire, 17” long, ring terminals & plug	05-11768	---
RA2150-2	BFG PN. 3E2050-2 Safeway PN. 6961	2 wire, 17” long, ring terminals & plug	05-11769	---
RA2171-2	BFG PN. 4E2071-2, Safeway PNs. D-6206-1, 6856C, 6638, Cessna PNs. D-206-1, D-5855-1, 6638	3 wire, 14 3/4” long, ring terminals	05-11770	---
RA2192-1	BFG PN. 3E2092-1 Safeway PN. 7022	2 wire, 14 3/8” long, ring terminals & plug	05-11771	---
RA2192-2	BFG PN. 3E2092-2 Safeway PN. 6887	2 wire, 15” long, ring terminals & plug	05-11772	---
RA2192-3	BFG PN. 3E2092-3 Safeway PN. 6952	2 wire, 14 3/8” long, ring terminals & plug	05-11773	---
RA2192-4	BFG PN. 3E2092-4 Safeway PN. 6834	2 wire, 18” long, ring terminals & plug	05-12276	---
RA2192-5	BFG PN. 3E2092-5 Safeway PN. 6953	2 wire, 14 1/2” long, ring terminals & plug	05-11774	---
RA2192-6	BFG PN. 3E2092-6 Safeway PN. 6954	2 wire, 13 1/8” long, ring terminals & plug	05-11775	---
RA2194-1	BFG PN. 3E2094-1 Safeway PN. 6955	2 wire, 15 1/8” long, ring terminals & plug	05-11776	---
RA2194-2	BFG PN. 3E2094-2, Safeway PN. 6956	2 wire, 18” long, ring terminals & plug	05-12593	---
RA2194-3	BFG PN. 3E2094-3, Safeway PN. 6993	2 wire, 14 1/2” long, ring terminals & plug	05-12594	---
RA2460-4	BFG PN. 3E2360-2 3E2360-4, Hartzell PN. 7931-3E2360-4	HD 2 wire, 20 1/2” long, ring terminals & plug	05-12595	---
RA2460-4HD	BFG PN. 3E2360-2 3E2360-4, Hartzell PN. 7931-3E2360-4	HD 2 wire, 20 1/2” long, ring terminals & plug	05-12596	---
RA2469-1	BFG PN. 3E2369-1	3 wire, 13” long, ring terminals & plug	05-12597	---
RA2469-2	BFG PN. 4E2369-2 Safeway PN. 6941	3 wire, 13 1/8” long, ring terminals & plug	05-11777	---
RA2626-1	BFG PN. 4E2526-1	2 wire, 13 1/4” long, ring terminals	05-12598	---
RA40330	Safeway PN. 6719SW, McCauley PN. B-40330	2 wire, 19 7/8” long, ring & hook terminals	05-12599	---
RA40387	BFG PN. 3E2293-1 Safeway PN. 6875SW, McCauley PN. B-40387	2 wire, 21 3/4” long, ring & hook terminals	05-12600	---
RA-C165013-0602	Cessna PN C165013-0602, BFG PN. 4E2071-1, Safeway PN. 6260SW-1	3 wire, 16 5/8” long, ring terminals	05-11785	---
RA-C165013-0604	Cessna PN. C165013-0604, McCauley PN.B-5051, BFG PN. 4E2071-3, Safeway PN. 6479SW 2	3 wire, 16 5/8” long, ring terminals	05-12278	---
RA40531	McCauley 40531	2 wire, 21 3/4" long, ring terminals, plug connector	05-15366	---
RA40585	McCauley 40585	2 wire, 19 1/2" long, ring terminals, plug connector	05-14963	---

RAPCO DE-ICE BRUSHES

RAPCO manufactures FAA PMA approved propeller de-ice brushes for replacement in BFG brush assemblies. These specially formulated carbon compound offers increased service life by reducing wear at altitude.

Model No.	Replaces	Description	Part No.	Price
RA1306-1	BFG P/N 3E1206-1 used in solid block assemblies.	Rodded brush, carbon 3/4” L x 3/4” W X 1/8 “ T, with 1 1/2” wire lead.	05-11743	---
RA1306-2	BFG P/N 3E1206-2 used in solid block assemblies.	Rodded brush, carbon 3/4” L x 3/4” W X 1/8” T, with 1 1/4” wire lead.	05-11744	---
RA1306-3	BFG P/N 3E1206-3 used in solid block assemblies.	Rodded brush, carbon 3/4” L x 3/4” W X 1/8” T, with 1 3/4” wire lead.	05-11745	---
RA1543-1	BFG P/N 3E1443-1 used in solid block assemblies.	Brush 13/16" L x 3/4" W X 1/8" T with 1 1/2" wire lead.	05-11749	---
RA1543-2	BFG P/N 1443-2 used in solid brush block assemblies.	Brush 13/16" L x 3/4" W X 1/8" T with 1 1/4" wire lead.	05-11750	---
RA1543-5	BFG P/N 3E1443-4 unrodded brush or 3E1443-5 kit.	Kit includes RA1543-4 brush measuring 13/16” L x 3/4” W X 1/8” T, with wire markers & terminal.	05-11751	---
RA1543-7	BFG P/N 3E1443-6 rodded brush or 3E1443-7 kit used in BFG P/N 3E2011-1 thru -5, & -10 or RAPCO P/N RA2111U-ROD modules.	Kit includes RA1543-6 rodded brush measuring 13/16” L x 3/4” W X 1/8” T, wire markers & terminal.	05-11752	---
RA2426-2	BFG P/N 3E2326-2 brush kit or 3E2326-1 brush. Used in constant force modules P/N 3E2320-1 thru-6 & -8.	Kit includes RA2426-1 brush measuring 3/4” W X 1 3/8” L X 1/8” T and constant force springs.	05-12601	---
RA2620-1	BFG P/N 3E2520-1 brush or 3E2522-1 kit. Used in BFG Heavy Duty brush assembly 4E3096-1, 4E3097-1, 4E3196-1 & 4E3197-1.	Kit, with brush 3/4” W X 1 1/16” L X 1/8” T, terminal and wire markers for BFG assembly P/N 4E3196-1, 4E3197-1. Note: Order 4 each per block.	05-12602	---
RA2142-1	BFG P/N 3E2042-1	Modular De-ice Brush Assembly, 3 brush	05-11766	---
RA2142-2	BFG P/N 3E2042-2	Modular De-ice Brush Assembly, 3 brush	05-12580	---
RA2144-1	BFG P/N 3E2044-1	Modular De-ice Brush Assembly, 3 brush	05-11767	---
RA2144-2	BFG P/N 3E2044-2	Modular De-ice Brush Assembly, 3 brush OR Modular De-ice Brush Assembly, 2 brush as applicable. Same style for all.	05-12581	---
RA2146-1	BFG P/N 3E2046-1		05-12582	---
RA2146-2	BFG P/N 3E2046-2		05-12583	---
RA2146-3	BFG P/N 3E2046-3		05-12584	---
RA2162-1	BFG P/N 3E2062-1		05-12585	---
RA2162-2	BFG P/N 3E2062-2		05-12586	---
RA2171	BFG P/N 3E2071		05-12587	---
RA2190-1	BFG P/N 3E2090-1		05-12588	---
RA2190-2	BFG P/N 3E2090-2		05-12589	---
RA2190-3	BFG P/N 3E2090-3		05-12590	---

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SMR TECHNOLOGIES

ICE SHIELD PROP & WING BOOTS FOR GENERAL AVIATION AIRCRAFT

Ice Shield™ specializes in high quality de-icing systems for general and commuter aviation. Ice Shield de-icing products include pneumatic wing boot de-icers, propeller electrothermal boot de-icers, wire harnesses, full system kits, hardware and all accessories needed for installation of product. Ice Shield products are reliable, durable and accompanied by first class customer service.
Ice Shield™ Wing Boots are certified on many aircraft including: • Beechcraft King Air Series • Cessna 200, 300, 400 and 500 Citation Series • Daher-Socata TBM 700/850 • Embraer 110 & 120 • Fairchild SA-226, SA-227 Metro/Merlin • Pilatus PC-12 • Piper PA-42, PA-46 Series • SAAB 340

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SMR ICE SHIELD PLUS - ICE INHIBITOR

SMR Ice Shield Plus - Ice Inhibitor 16oz reduces Ice Adhesion and Adds Additional UV Protection. Reduces damage from ice adhesion. Improved de-icing performance. Adds additional UV protection. 16 oz.
Note: This product is only to be used on our black de-ice products. P/N 09-06212 .....

SMR ICE SHIELD PLUS - BOOT CLEANER

SMR Ice Shield Plus Boot Cleaner thoroughly and safely removes existing residue and treatments. Safely removes oil and residue. Keeps boots looking clean and new. Preps surface for conditioning. 16 oz.
Note: This product is only to be used on our black de-ice products. P/N 09-06209 .....

SMR ICE SHIELD PLUS - BOOT CONDITIONER

SMR Ice Shield Plus - Boot Conditioner chemically conditions to protect against harmful oxidation and UV damage. Protects against weathering and UV. Extends expected boot life. Slows down polymer aging process 32 oz.
Note: This product is only to be used on our black de-ice products. P/N 09-06211 .....

SMR ICE SHIELD PLUS - 150 FLIGHT HOUR CARE KIT

Contains:
•SMR Ice Shield Plus Care Kit includes:
•SMR Ice Shield Plus and Boot Cleaner - 16oz
•SMR Ice Shield Plus and Boot Conditioner - 32oz
•SMR Ice Shield Plus Ice Inhibitor - 16oz
•SMR Ice Shield Plus Applicator Swabs
Note: This product is only to be used on our black de-ice products.
P/N 09-06208 .....

SMR ICE SHIELD APPLICATION SWABS

SMR Ice Shield Application Swabs - 10 Pack
P/N 09-06213 ..... ---

SMR FLOATS

BELL 206 HELICOPTER

Description	Part No.	Price
SMR 7MA1063-1 Float For Bell Model 206 - Fwd	08-19254	---
SMR 7MA1064-1 Float For Bell Model 206 - Center	08-19255	---
SMR 7MA1065-1 Float For Bell Model 206 - Aft	08-19256	---
SMR 5MA1439-1 Float For Bell 206Ab - Fixed	08-19257	---

BELL 412 HELICOPTER

Description	Part No.	Price
SMR 7MA1061-1 Float For Bell 412 - Fwd	08-19258	---
SMR 7MA1062-1 Float For Bell 412 - Aft	08-19259	---

ROBINSON R44 HELICOPTER

Description	Part No.	Price
SMR 5MA2179-1 Float For Robinson R44 - LH	08-19260	---
SMR 5MA2179-2 Float For Robinson R44 - RH	08-19261	---
SMR 5MA2346-2 Painted Float for Robinson R44 - RH	08-19266	---
SMR 5MA2346-2 Painted Float for Robinson R44 - LH	08-19267	---

GOVERNMENT SPONSON FLOAT FOR SIKORSKY S-61

Description	Part No.	Price
SMR 5MA1082-2 Government Sponson Float For Sikorsky S-61	08-19262	---

SMR HELICOPTER FLOAT REPAIR KIT

Description	Part No.	Price
SMR 1MA1119-1 Repair Kit (212/412 - S-61)	08-19263	---
SMR 1MA1079 Float Repair Kit Adhesive	08-19264	---
SMR 1MA1048 Float Repair Kit	08-19265	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ACS SKULL CAP SPINNERS

5-inch diameter - For wood or metal props on Cont. A-65 to O-200 engines. High-polish finish. Top quality. Made in the U.S.A.

Polished.....P/N 10210 ..... ---
Unpolished.....P/N 10211 ..... ---
5" Skull Spinner Dome (only) Polished .....P/N 05-21600 ..... ---

6-inch diameter - For Lycoming O-235 to O-360 engines and Cessna 170's. With mounting bracket and installation hardware. High-polish finish. Top quality.

Polished.....P/N 10220 ..... ---
Unpolished.....P/N 10221 ..... ---
6" Skull Spinner Dome (only) Polished .....P/N 05-21700 ..... ---
Bracket & Hardware Only (Fits Either Spinner)
P/N 05-21800 ..... ---

CESSNA SKULL CAP SPINNER

Skull Cap Spinner Assembly (small) for Cessna, FAA/PMA Approved. For wood or metal propellers on A-65, A-75, C-85, and C-90 Continental Engines. Made in the U.S.A.

Spinner Assembly....P/N 05-06844 ..... ---
Dome Only.....P/N 05-04829 ..... ---
Bracket Only.....P/N 05-04830 ..... ---

PROP & SPINNER POLISHING KIT

This kit was developed specifically to maintain the propeller and spinner on prop & spinner in pristine condition.

P/N 09-23525 ..... ---

COMPOSITE SPINNERS FOR PIPERS & CESSNAS

These new composite materials spinners and bulkheads are FAA/PMA approved and STCs to replace aluminum spinners and bulkheads on the Piper aircraft models listed below. Bulkheads are constructed for maximum strength and resistance to fatigue due to vibration. Pipers metal versions often crack in 200-300 hours, whereas the composite assemblies have been tested over 4000 hours on a PA-28 with no failure. Spinners for twins & all bulkheads are warranted against vibration fatigue for the life of the aircraft by the factory. **Includes washers.**

Description	Model	Part No.	Price
Spinner Kit	PA28-140/150/160	05-28350	---
Spinner Dome	150A, 150F, 150FA	05-01257	---
Spinner Dome	170B, 172, (1956-59)	05-01258	---
Spinner Dome	172XP Not FAA/PMA Approved	05-01259	---
Spinner Dome	172 Skyhawk (G-Q)	05-00744	---
Spinner Dome	182 P, Q Skylane	05-00746	---
Spinner Dome	177B, 177RG Cardinal	05-00747	---
Spinner Dome	210 (all 3 blade McCauley	05-00748	---
Spinner Dome	PA-140/150/160 Cherokee	05-00749	---
Spinner Dome	PA-24-180/250, PA23-150/160	05-00752	---
Spinner Dome	PA-24-180/250, PA23-235/250	05-00753	---
Bulkhead	PA30, PA23-250 (Aztec)	05-02659	---
Spinner Dome	PA30, PA23-350 (C model & up)	05-02660	---
Spinner Dome	PA28-151/161 Warrior	05-02662	---
Alt. Bulkhead	PA28-151/161 Warrior	05-02658	---
Fwd. Bulkhead	PA28-151/161 Warrior	05-02655	---
Spinner	310R, T310Q, T310R, T310P	05-00754	---
Rear Bulkhead	PA28-161 Warrior	05-02663	---
Spinner Dome	PA28-161 Warrior POST 1979 13" Spinner	05-02661	---
Spinner LH	PA34-200T Seneca II	05-02665	---
Bulkhead	PA34-200T Seneca II	05-02664	---
Bulkhead	PA31/-325/-350 Navajo	05-02667	---
Bulkhead	PA31/-325/-350 Navajo	05-02668	---
Spinner Dome	PA31/-325/-350 Navajo	05-02669	---
Spinner Dome	PA31/-325/-350 Navajo	05-02670	---
Bulkhead only	PA38-112 Tomahawk	05-02656	---
Spinner Dome	PA28-235	05-00756	---
Fwd. Bulkhead	PA28-180/181 Cherokee/Archer	05-00757	---
Spinner Dome only	PA28-180/181 Cherokee/Archer	65805-00	---
Spinner Dome	PA32R-300,PA32-260/300/301	05-00758	---
Fwd. Bulkhead	PA28R-180/200, PA-235	05-00759	---
Spinner Dome	PA38-112 Tomahawk	05-00761	---
Spinner Dome	PA34-200 Seneca I	05-00762	---
Fwd. Bulkhead	PA28-161 Warrior	05-02671	---
Spinner Dome	PA34-200 Seneca I	05-00763	---
Rear Bulkhead	PA24-400	05-15385	---
Spinner	PA24-400	05-15384	---
Spinner Dome	C-172R (Skyhawk) Not FAA/PMA Approved	05-11281	---
Rear Bulkhead	150A, 150F, 150FA Pending PMA	05-15374	---
Rear Bulkhead	170B, 172 (1956-1959) Pending PMA	05-15376	---
Spinner	172 (1960-172A-F) Pending PMA	05-15378	---
Spinner	172 (G-Q) Penn Yann Conversion	05-15379	---
Spinner	180, 182 A-D (Early Model) Pending PMA	05-15380	---
Spinner	Pending PMA206 3 Bladed McCauley Props (Centurion)	05-15381	---
Spinner	337 Rear Spinner Pending PMA	05-15382	---
Spinner	337 Front Spinner Pending PMA	05-15383	---
Spinner	172RG Pending PMA	05-15386	---
Spinner	150 AVCON Conversion Pending PMA	05-15388	---
Spinner Dome	C-177/C-177A	05-11282	---
Spinner Dome	Grumman AA-1/A/B/C	05-11283	---
Bulkhead	Grumman AA-5, AA-5A Forward	05-11284	---
Bulkhead	Grumman AA-5B, AG5B Forward	05-11285	---

PROP GUARD FOR 2 OR 3 BLADE PROPELLER

Anti-abrasion boot for your metal propeller It is more economical to protect your propeller blades with PROP GUARD than to continually file, dress, paint and balance your blades until they have to be replaced. Water, sand, rock, and airborne abrasives are constantly eroding your propeller. As the name suggests, this product can eliminate this destructive process. Virtually all propeller blade failures start as leading edge nicks.
PROP GUARD is a 0.018" thick clear anti-abrasion boot that is bonded to the leading edge of the propeller
PROP GUARD is made from a special high strength heat processed polymer engineered for centrifugal loads. It is NOT just a piece of tape!
Easy to install (approximately 20 minutes installation time)
No performance loss
Fully tested
Repairable
STC FAA-PMA approved (minor alteration, no form 337 required)
Kit contains:
PROP GUARD boot for a two or three bladed propeller, adhesion accelerator, placard, lint-free cotton cloth, complete installation instructions and a copy of the STC.

Description	Part No.	Price
Prop Guard 2 Blade Kit	05-05330	---
Prop Guard 3 Blade Kit	05-05335	---
Prop Guard Repair Kit (12')	05-11832	---
Prop Guard Repair Kit (24')	05-11833	---

PROP GUARD SEAM ROLLER TOOL

This rubber coated roller makes working air bubbles out during installation easier than using the spatula included with the PROP GUARD kit. The rubber conforms to the shape of the propeller, and the rolling action allows you to press harder to eliminate small air bubbles. It is recommended for customers who may be installing more than one PROP GUARD or those who just want to make the job faster and easier.....P/N 05-11984 .....

PROP PROTRACTOR

Perfect for precision setting of all ground-adjustable props, as well as precision alignment of control surfaces.
P/N 05-31970 .....---

DRIVE LUGS FOR EXTENSIONS

Part No.	Type	O.D.	Thread	Price Ea.
05-28300	Unthreaded	5/8"	---	---
05-28400	Unthreaded	3/4"	---	---
05-28310	Threaded	5/8"	3/8-24	---
05-04417	Threaded	5/8"	7/16-20	---
05-28410	Threaded	3/4"	1/2-20	---

CRUSH PLATES FOR WOOD PROPS

OD	Thickness	Bolt Circle	Bolt Dia.	Part No.	Price
6"	3/8"	SAE 1 (4.375")	3/8"	05-02464	---
6"	3/8"	SAE 2 (4.75")	3/8"	05-02465	---
7"	3/8"	SAE 2	3/8"	05-02466	---
7"	3/8"	SAE 2	7/16"	05-02467	---
7"	3/8"	SAE 2	1/2"	05-02468	---
7"	1/2"	SAE 2	3/8"	05-02469	---
7"	1/2"	SAE 2	7/16	05-02470	---
7"	1/2	SAE	1/2	05-02471	---

PROP SPACERS

Solid Prop Spacers, 6 thru holes. The prop bolt goes thru the prop and spacer and threads into the engine.

Bolt Diameter	Part No.	Price
Prop Spacer 1.5"x5" Rotax	05-02472	---
Prop Spacer 2"x5" Rotax	05-02473	---
Prop Spacer 2.25"x5" Rotax	05-02474	---
Prop Spacer 3"x5" Rotax (Spool)	05-02475	---
Prop Spacer 4"X5" Rotax (Spool)	05-04418	---

PROP EXTENSIONS

Precision machined prop shaft extensions are available from Aircraft Spruce & Specialty Co. Don't settle for lesser quality at advertised "savings". Prop extensions are machined from solid 2024 T-351 aluminum bar, and are supplied with clear anodized finish and stainless steel drive lugs (installed). 7" diameter prop side is recommended for 0-320 engines running wood props, and is required for 0-360 engines (or larger) running wood props. For Cont. 0-200, you may choose 5.5" diam on engine side. If prop is metal, please measure depth of drilled counterbore at all 6 bolt hole positions.

Flange Engine	SAE No.	Bolt Circle	Lug Dia.	Eng. Bolt Dia.
Cont. A-65, A-75, C-85, C-90, 0-200	SAE 1	4-3/8	5/8"	3/8"
Lycoming 0-235	SAE 1 or 2		5/8"	3/8"
Lycoming 0-290	SAE 2	4-3/4"	5/8"	3/8"
Lycoming 0-320	SAE 2	4-3/4"	5/8"	3/8" or 7/16"
Lycoming 0-360	SAE 2	4-3/4"	3/4"	1/2"
Lycoming O-540	SAE 2	4-3/4"	3/4"	1/2"

PLEASE ORDER USING THE FOLLOWING PART NO.

___X____–____E –____P____– SAE___– ENGINE – PROP – PROP HUB BLADES

length	diam prop side (6 or 7)	engine bolt 3/8 or 7/16 or 1/2	prop bolt 3/8 or 7/16 or 1/2	thr or non (threaded or non-threaded lugs installed in extension)	1 or 2	(wood or composite or metal)	(wood or composite or metal)

Example: 4 X 7 - 7/16 E - 3/8P thr - S2 - Lyc 0320 - wood - wood

12 HOLE SOLID PROP EXTENSION WITH THREADED DRIVE LUGS

Length x Dia.	Length x Dia.
1.25"x6"	1.25"x7"
2.25"x6"	2.25"x7"
3"x6"	4"x7"
4"x6"	6"x7"
8"x6"	8"x7"
	8"x8"

PRICES ON PROP EXTENSIONS CAN VARY PER APPLICATION PLEASE CALL AND REQUEST A QUOTE FOR YOUR APPLICATION.

10351

PROP HUB FRONT PLATES

Required for wooden propellers. Flange equivalent to Cont. P/N 3991. For use with A-65, C-85 installations or Lyc. 0-235 with SAE1 (43/8") bolt pattern .....P/N 10351 Cont..... ---

Flange equivalent to Lyc. P/N 45688, for use with Lyc. 0-235 thru 0-360 engines with SAE2 Bolt Pattern engines .....P/N 10352 Lyc..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SMOKE SYSTEMS

SMOKE SYSTEM KIT MODELS SA-100 SERIES

All of the SA-100 series smoke system oil tanks are the same size (dimensions). Models Differ by oil suction tube design, oil pump mounting location and oil tank configuration. **Note: All kits are available with 12 or 24 volt DC smoke oil pumps. Please specify 12 or 24 volt DC when ordering.**

SA-101

- For continuous inverted flight.
- Top mounted oil pump.
- All hardware for complete installation.
- Step by step instructions.
- Height (To top of fill cap is) is 15”
- Width (End where oil pump is mounted) is 11”
- Depth (Pump to opposite end of tank) is 8.5”
- Oil tank capacity: 3.5 US Gallons
- Approx. oil used per minute: .8 Us Gallons
- Approx. total run time: 5+ minutes.....P/N 05-01439 ..... ---

NOTE: Add 1.5” to base on each side or end for bracket width.

SMOKE SYSTEM KIT MODELS SA-200 SERIES

Both of the SA-200 series smoke system oil tanks are the same size (dimensions). Models Differ by oil suction tube design.

SA-201

- For continuous inverted flight.
- Any Dimension top.
- Pump can be mounted on top or any side surface.
- Fill cap and any other fittings installed where you want them.
- All hardware included for complete installation.
- Height (To top of fill cap is) is 14”
- Width (End where oil pump is mounted) is 10”
- Depth (Pump to opposite end of tank) is 17.25”
- Oil tank capacity: 5.5 US Gallons
- Approx. oil used per minute: .8 Us Gallons
- Approx. total run time: 7+ minutes.....P/N 05-02891 ..... ---

NOTE: Add 1.5” to base on each side or end for bracket width.

AP

SMOKING AIRPLANES EXTERNAL FILL KIT

This kit has everything right down to the vinyl letter transfer “Smoke Oil Only” and detailed installation instructions.

P/N 05-03595 ..... ---

SMOKING AIRPLANES SMOKE SYSTEM 5.5V- Features: • Rated for 18g • 12v or 24v power ok • Suitable for all aircraft • Pump flow: 1.8 +/- GPM • Spray rate: 0.8 +/- GPM • Adjustable with incl valve • Tank capacity: 5.5 gallons • Total run time: 7+/- minutes • Typical installation time: 1 day • Ready for External Fill Kit option • Turbine and Jet ordering information • Engineered for continuous inverted flight • Strong monolithic tank construction (no seams) • See successfully earned FAA Field approvals • Oil level quickly & easily determined (tank is transparent) • Tank easily removed and re-connected (when space is needed)

P/N 05-28847 ..... ---

SMOKING AIRPLANES SMOKE OIL PUMP ONLY

The kit includes: • 1 Smoke Oil Pump • 1 Molex Quick Disconnect Wire Harness • 1 Instructions • 1 90 Degree AN-6 Fitting • 2 Straight AN-6 Fittings • 2 14 Gauge Wire Butt Connectors • Screws, Nuts Washers – Mounting Hardware • Customer Must Specify 12 Volt DC or 24 Volt DC.12V.....P/N 05-04477 ..... ---

SMOKING AIRPLANES OIL PUMP HEAD REPLACEMENT

Smoking Airplanes Oil Pump Head Replacement. **Features:** • For all Smoking Airplane pumps • 3 screw installation • Takes less than 5 minutes.

P/N 05-27109 ..... ---

SMOKING AIRPLANES SUCTION ASSEMBLY

• Brass clunk weight • Brass ferrule fittings, 2 • Black HDPE elbow, 1/2” NPT • Silicone rubber hose, 18” (easy to trim)

P/N 05-27111 ..... ---

SMOKING AIRPLANES OIL FILTER ASSEMBLY

• Smoking Airplanes Oil Filter Assembly • Easy to clean • 3/8” ID hose Barb • Internal filter suitable for smoke oil • Preassembled to connect to inlet side of pump. P/N 05-28848 ..... ---

SMOKING AIRPLANES OIL FLOW VALVE

• Adjustable valve • Brass 3/8” NPT 90° inlet • Aluminum 6 AN 90° outlet with cap

P/N 05-28849 .....

COPPER STATE AVIATION SMOKE OIL

Copper State Petroleum’s Aviation Smoke Oil is a low viscosity, amber colored petroleum base oil for many aviation smoke applications. It is non-toxic and specially formulated to produce a brilliant white smoke trail with incredible hang time. **Features**: • Made from highly refined base stocks and contains no additives that can harm smoke systems • Its low viscosity and ability to produce billowing white smoke clouds that are reluctant to dissipate make it the perfect choice for professionals looking to impress a crowd • Its non-flammable formulation makes it an extremely safe and superior alternative to dangerously ignitable home-made oil and fuel mixtures.

1 Gallon Bottle .....P/N 05-06946 ..... ---
5 Gallon Pail .....P/N 05-06947 ..... ---
55 Gallon Drum .....P/N 05-06948 ..... ---

SUPER-DRI® SKYSMOKE AVIATION FLUID

Super Dri® SkySmoke® Aviation Smoke Fluid is a professional grade, crystal clear, proprietary blend of the best fluids available. Super Dri®, established in 1976, formulated SkySmoke® especially for aircraft to be the cleanest, best smoking fluid available. SkySmoke® provides the most intense smoke and longest hang time. SkySmoke® is Environmentally Safe, Non-Hazardous and Non-Staining. Super Dri® may be used in wind tunnels, leak testing, special effects or anywhere intense smoke is required.

1 Gallon .....P/N 05-04972 ..... ---
5 Gallon .....P/N 05-04975 ..... ---
55 Gallon .....P/N 05-04976 ..... ---

55 GALLON IS DROP SHIP ONLY.

SMOKING AIRPLANES PREMIUM BLEND SMOKE OIL

Smoking Airplanes Premium Blend Smoke Oil is recommended for use with all Smoking Airplanes brand smoke system kits. Developed for maximum atomization through Smoking Airplanes LLC smoke oil injectors, it consists of a high grade paraffinic mineral oil blended with other proprietary ingredients to produce a full bodied, persistent, clean burning, brilliant white smoke trail. **Features**: • Brilliant white smoke • Persistent hang time • Equal or better than leading smoke oil brands.

5 Gallon .....P/N 05-06949 ..... ---

SEAT BELTS & SHOULDER HARNESSES

FAA CERTIFIED PERSONAL RESTRAINTS

These are top quality, new manufactured assemblies. They are designed, manufactured, and proof tested to rigid FAA standards. All belts use proven lift to release style Davis metal to metal buckles. Push-to-release buckles are not used due to difficulties in releasing under emergency conditions. Aircraft quality alloys and 2-inch nylon webbing are used throughout. Belts are certified to FAA TSO-C22f.

AP

STYLE NO. 1A SEAT BELT

Most popular metal-to-metal seat belt. This 56" adjustable seat belt offers a heavy-duty combination of an all-nylon 2" wide herringbone webbing and a metal-to-metal "quick release" buckle. Buckle mates with harness adapters (Shoulder Harness Items 3B or 3C) for safety belt/harness set or use belt alone. The end fittings for each side of the lap belt have a .325 in. dia. hole which allows for a fastener/bolt to slide through, depending on the design of the aircraft/aircraft seat is where it attaches.

Part No.	Color	Price
13-00201	Black	---
13-00202	Brown	---
13-00203	Tan	---

Part No.	Color	Price
13-00204	Navy Blue	---
13-00205	Royal Blue	---
13-00206	Gray	---

STYLE NO. 1B SEAT BELT

Same as style No. 1A above except with #442868 clip type end fittings. The end fitting hooks have spring loaded clips that allows each side of the lap belt to clip on to an existing fastener or rod. When the clip is closed the effective hole dia. for both these belts is .37 in.

Part No.	Color	Price
13-00301	Black	---
13-00303	Tan	---
13-00306	Gray	---

STYLE NO. 2A SEAT BELT

If belts are needed to replace worn ones in an aircraft in which the attachment fittings have been installed and approved, it is customary to install belts with a slide adjustment bar which permits weaving webbing through existing fitting and through bar for secure installation. Drawing shows correct method of lacing the webbing through bar. Belt is 56" long x 2" wide.The end fittings for each side of the lap belt have a .325 in. dia. hole which allows for a fastener/bolt to slide through, depending on the design of the aircraft/aircraft seat is where it attaches.

Part No.	Color	Price
13-00401	Black	---
13-00402	Brown	---
13-00403	Tan	---
13-00406	Gray	---

STYLE NO. 2B SEAT BELT

Same as style No. 2A above except with #442868 clip type end fittings. Standard equipment in White Lightning aircraft. Black only.

P/N 13-19601 ..... **---**

STYLE NO. 5 SEAT BELT/HARNESS SET FOR HOMEBUILTS

Specially designed for the VariEze, this popular combination is also used in the Long-EZ, Quickie, Q2, Cozy, Sea Hawk and several other homebuilts. The belts are made to fit snugly, and the aluminum end fittings save weight. Order two sets for all above aircraft except Quickie which uses one set. Not FAA approved for certificated aircraft.

P/N 13-01300 ..... **--- Set**

STYLE NO. 3A "Y" SHOULDER HARNESS

Harness with stitched-in webbing loops for use with any 2" wide seat belt. Belt simply slides through loops and secures. Harness is "Y" type with one attachment fitting furnished.

Black Only .....P/N 13-00601 ..... **---**

STYLE NO. 3B "Y" SHOULDER HARNESS

Harness with two chrome-plated steel adapters on front webbing extensions which mate with metal-to-metal buckle for safety belt/harness set. Harness is "Y" type with one attachment fitting furnished. Lift buckle to release belt and harness. Order belt separately.

Black Only .....P/N 13-00701 ..... **---**

STYLE NO. 3C TWO STRAP SHOULDER HARNESS

Harness with two chrome-plated steel adapters on front webbing extensions which mate with metal-to-metal buckle for safety belt/harness set. Harness has two separate straps with two attachment fittings furnished. Lift buckle to release belt and harness. Order belt separately.

Black Only .....P/N 13-00801 ..... **---**

CESSNA 180 MAGNETIC HARNESS FASTENER 4 PIECE KIT

Prevent your unmanned safety harnesses from getting tangled or stuck, causing interior/exterior damage to your aircraft, and inflicting potential body injury. Secure them with the HillBro Magnetic Harness Fastener, a quick and convenient way to hold your harnesses in place. **PURPOSE**: • Conveniently access and secure harness straps when entering and exiting vehicle • Prevent damage to vehicle interior and exterior caused by loose harnesses • Prevent injury to occupants caused by loose harnesses.

Charcoal .....P/N 13-25685 ..... **---**
Red .....P/N 13-25686 ..... **---**

AVIAT HUSKY HARNESS FASTENER KIT

Prevent your unmanned safety harnesses from getting tangled or stuck, causing interior/exterior damage to your aircraft, and inflicting potential body injury. Secure them with the HillBro Magnetic Seat Belt Fastener, a quick and convenient way to hold your harnesses in place.

PURPOSE: • Conveniently access and secure harness straps when entering and exiting vehicle • Prevent damage to vehicle interior and exterior caused by loose harnesses • Prevent injury to occupants caused by loose harnesses.

Charcoal .....P/N 13-25683 ..... **---**
Red .....P/N 13-25684 ..... **---**

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CROW RESTRAINTS

CROW KAM LOCK Y HARNESS RESTRAINT SYSTEM FOR RV-6 / RV-7 / RV-9 / RV-14

Crow restraint systems feature 5-Way Kam Lock, 50" Seat Belt Pull Up Adjustment, Y-Type Harness & Anti Submarine belt with all points bolt in.

Version	Part Number	---
Left Only With Pads	05-26591	---
Left Only Without Pads	05-26590	---
Right Only With Pads	05-26593	---
Right Only Without Pads	05-26592	---

CROW CAM LOCK RESTRAINT SYSTEM FOR RV-10A

Crow restraint systems feature 5 attach points and are available in Latch & Link or Cam Lock versions. For RV series aircraft, the Cam Lock version is most popular. These restraint systems are available with or without 2 inch sewn-on shoulder pads, which are the same color as the rest of the belts and harness.

Position	Version	Front Part No.	Price
Front	Left With Pads	05-26599	---
Front	Left Without Pads	05-26598	---
Front	Right With Pads	05-26601	---
Front	Right Without Pads	05-26600	---
Rear	Left With Pads	05-26603	---
Rear	Left Without Pads	05-26602	---
Rear	Right With Pads	05-26605	---
Rear	Right Without Pads	05-26604	---

CROW KAM LOCK RESTRAINT SYSTEM FOR RV4 / RV8

Crow restraint systems feature 5 attach points with a 2" Kam Lock restraint, the most popular option for RV series aircraft. 50" Seat Belt Pull Up Adjustment. Individual Harness & Anti-Submarine Belt. Front Seat Harness Wrap Around. Back Seat Harness Bolt-in. These restraint systems are available with or without 2 inch sewn-on shoulder pads, which are the same color as the rest of the belts and harness.

Version	Part Number	---
Front With Pads	05-26595	---
Front Without Pads	05-26594	---
Rear With Pads	05-26597	---
Rear Without Pads	05-26596	---

CROW SAFETY 2" HARNESS PADS .....P/N 05-27154 ..... ---

05-04949

With Pads

Without Pads

CROW LATCH LINK Y HARNESS RESTRAINT SYSTEM FOR RV-6 / RV-7 / RV-9 / RV-14

Crow restraint systems feature 5-Way Latch & Link, 50" Seat Belt Pull Up Adjustment, Y-Type Harness & Anti Submarine belt with all points bolt in.

Version	Part Number	Price
With Pads	05-26607	---
Without Pads	05-26606	---

CROW LATCH LINK RESTRAINT SYSTEM FOR RV-10A

Crow restraint systems feature 5 attach points and are available in Latch & Link or Cam Lock versions. For RV series aircraft, the Cam Lock version is most popular. These restraint systems are available with or without 2 inch sewn-on shoulder pads, which are the same color as the rest of the belts and harness.

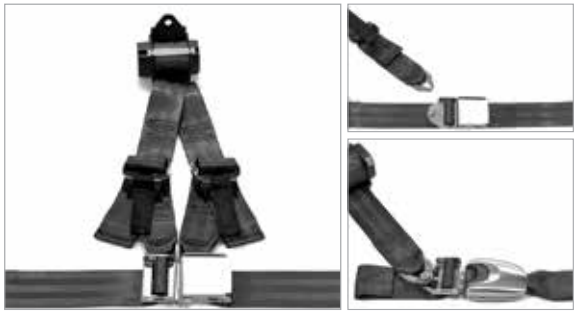
Version	Part Number	Price
Front With Pads	05-26613	---
Front Without Pads	05-26612	---
Rear With Pads	05-26615	---
Rear Without Pads	05-26614	---

CROW LATCH LINK Y HARNESS RESTRAINT SYSTEM FOR RV-8 & RV-8A

Crow restraint systems feature 5-Way Latch & Link, 50" Seat Belt Pull Up Adjustment, Y-Type Harness & Anti Submarine belt with all points bolt in.

Version	Part Number	Price
Front With Pads	05-26609	---
Front Without Pads	05-26608	---
Rear With Pads	05-26611	---
Rear Without Pads	05-26610	---

ABI AVIATION RESTRAINTS



For more than 35 years, Aircraft Belts, Inc. (ABI) has been a global leader of quality aircraft restraint systems for aircraft worldwide. Aircraft Spruce carries ABI restraint systems for Cessna 150K-M, Cessna 152, Cessna 172D-Q, Cessna 177, Cessna 182A-R / R182 / TR182, Cessna 208-208B Caravan, Beech 36/A36/A36TC/B36TC/ G36 King Air 350, Bell 206, Bell 407, Bell 412, PIPER PA 28/32 and single and twin engine Piper Aircraft.

SEE WWW.AIRCRAFTSPRUCE.COM FOR PART NUMBERS & PRICING FOR YOUR AIRCRAFT APPLICATION.

SIMPSON AVIATION RESTRAINTS

5-POINT CAMLOCK

7-POINT CAMLOCK

Complete harness systems from Simpson Performance features 5-point aviation harnesses for a wide variety of experimental aircraft, aerobatic planes and historical/military restoration planes. Simpson aviation harnesses are a premier line made in the USA and backed by Simpson's 60 years of experience and research in motorsports safety.
Simpson Flight uses only the best materials and hardware. Lightweight aluminum adjusters are the smoothest in the industry and provide exceptional locking action. Simpson harnesses are premium polyester webbing only. Polyester minimizes elongation and sunlight degradation. Polyester also absorbs energy better in a crash. Simpson aviation harnesses are engineered with proven racing technology to offer you top of the line performance and safety.

SEE WWW.AIRCRAFTSPRUCE.COM FOR PART NUMBERS & PRICING FOR YOUR AIRCRAFT APPLICATION.

AMSAFE RESTRAINT SYSTEM (SOARS)

The State of the Art Restraint System (SOARS) is a universally adjustable lapbelt airbag restraint system designed to mitigate head and torso injury in aircraft crash conditions. It is STC eligible for installation in over 600 Part 23 aircraft, as well as all experimental aircraft.

With over a billion hours of logged service, AmSafe Airbag Systems are utilized in commercial aircraft, business jet and turboprop aircraft as well as general aviation to protect pilots, co-pilots and passengers. SOARS is an affordable, yet significant enhancement for general aviation occupant protection.

Each SOARS kit includes a complete airbag restraint system for both the Pilot & Co-Pilot seats, replacing the original pilot and co-pilot 2 or 3-Point standard restraints. ..... P/N 05-22028 .....---

BALLISTIC PARACHUTES SYSTEMS

CANISTER
The BRS Canister is waterproof when the original factory seal remains intact, making it the perfect design for exterior installations. With a six year repack schedule and versatile mounting hardware, it is one of the most popular systems.

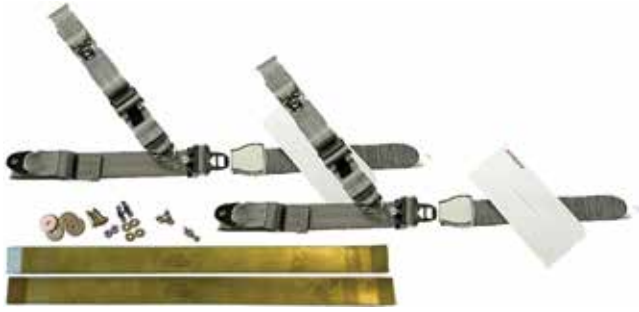
SOFTPACK
The BRS Softpack is best suited for aircraft manufacturers that require a ballistic parachute mounted inside their aircraft. When mounted internally, this system also has a six year repack schedule.

VLS
Built specifically for aircraft with limited interior space, the VLS (Vertical Launch System) installs on top of the wing or fuselage. Upward firing works well with pusher designed aircraft.

AP

SEE OUR WEBSITE FOR COMPLETE LIST OF BRS SYSTEMS FOR GENERAL AVIATION, LSA, ULTRALIGHT, AND EXPERIMENTAL AIRCRAFT.

ALPHA AVIATION CESSNA REAR HARNESS INSTALLATION



PMA article AAI-0511232-4 is being produced under Alpha Aviation's production authorization and made available to owners and operators of early Cessna Models.
This meets the requirements of Cessna SEB92-98; Kits SK170-12C, SK185-52D & SK182-101B
Approved Models: 170, 170A, 170B, 172, 172A, 172B, 172C, 175, 175A, 175B, 175C, 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K, 182, 182A, 182B, 182C, 182D, 185, 185A, 185B, 185C, 185D, 185E, A185E, A185F

Type	Color	Part Number	Price
Fixed Strap	Black	05-27142	---
Fixed Strap	Gray	05-27143	---
Fixed Strap	Fawn	05-27144	---
Inertial Reel	Black	05-27145	---
Inertial Reel	Gray	05-27146	---
Inertial Reel	Fawn	05-27147	---

SEAT BELT HARDWARE

CLIP TYPE END FITTING
P/N 442868 (Steel)
--- Ea.

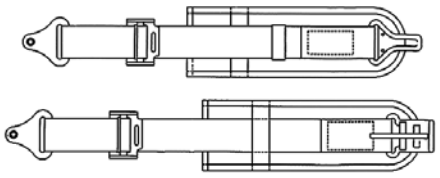
SLIDE ADJUSTER
P/N 442663
--- Ea.

TRIANGULAR END FITTING
P/N 13-04101
--- Ea.

HOOKER CUSTOM HARNESSES

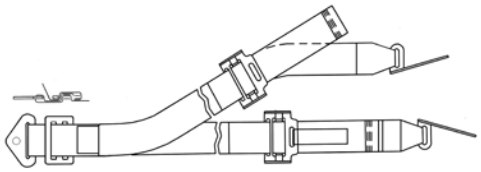
SPORT HARNESS SET (PER SEAT)
The popular Sport Harness kit from Hooker is ideal for a wide variety of experimental aircraft. The set includes one 1-3/4" military style seat belt, one 1-3/4" military style shoulder harness, one 1-3/4" crotch strap, one pad set and yoke assembly for front seat.
With pad set .....P/N 13-00925 ..... ---
With pad rear.....P/N 13-08054 ..... ---
Without crotch strap .....P/N 13-00930 ..... ---

AEROBATIC HARNESS SET (PER SEAT)



The Hooker Aerobatic Harness kit is very popular with sport and competitive aerobatic pilots. The set includes two 1-3/4" military style seat belt, one 1-3/4" military style shoulder harness, one 1-3/4" crotch strap, one pad set and yoke assembly for front seat.
Note: The aerobatic is the same with the exception of the ratchet being replaced with a standard adjuster.
With one pad set .....P/N 13-00935 ..... ---
With stainless ratchet tightener .....P/N 13-00950 ..... ---

HOOKER CESSNA FIXED SHOULDER HARNESS KIT (PER SEAT)



This set includes new double adjustable seat belt, shoulder harness, installation kit with necessary hardware, brackets and the STC paperwork. The STC currently covers installation in Cessna models 120, 140, 140A, 150, 152, 170, 172, 175, 180, 182 (except R182 and TR 182), 185, 205, 206, and 210 (through F model). Installation of this set does not require drilling holes in the external skin or the removal of the wings. The installation is accomplished from within the airplane and installation time usually runs 60-90 minutes with the headliner removed. Pads are not included .....P/N 13-00955 ..... ---

NOT AVAILABLE IN THE REAR. SPECIFY AIRCRAFT TYPE & COLORS OF WEBBING WHEN ORDERING.

COLORS AVAILABLE (HOOKER)

2" Webbing: Red, Dragon Red, Burgundy, Orange, Air Force Gold, Olive Drab, Sage Green, Baby Blue, Royal Blue, Navy Blue, Tan, Beige, Silver Gray, Dark Gray, Black

1-3/4" Webbing: Red, Air Force Gold, Kelly Green, Olive Drab, Sage Green, Jade Green, Royal Blue, Navy Blue, Purple, Silver Gray, Dark Gray, Tan, Black

Pad Fabric: Red, Burgundy, Navy Blue, Royal Blue, Lemon Yellow, Air Force Gold, Dark Gray, Olive Drab, Sage Green, Silver Gray

Pink, Turquoise, Orange, Green, Jade, Lavender, Purple, Tan, Brown, Black

Trim: Red, Burgundy, Navy Blue, Royal Blue, Lemon Yellow, Air Force Gold, Dark Gray, Olive Drab, Sage Green, Silver Gray, Pink, Turquoise, Orange, Green, Jade, Brown, Lavender, Purple, Tan, Black

SPECIFY WEBBING,(PAD TRIM AND PAD COLORS WHERE APPLICABLE) WHEN ORDERING ALL HOOKER HARNESS PRODUCTS

NOTE: SEE PREVIOUS PAGE FOR SHOULDER HARNESSES COMPATIBLE WITH THESE SEAT BELTS.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

STC'D SEAT BELTS & SHOULDER HARNESSES

ALPHA AVIATION RESTRAINT SYSTEMS

Note: FAA/ STC/ PMA Installation kits include complete new TSO-C114 belt assemblies for each pilot position. FAA/ STC/ PMA Installation kits include all hardware to upgrade both pilot positions. OEM quality, AMSAFE Incorporated belt assemblies meeting TSO-C114. Standard colors are black, gray & fawn. For custom colors, please order the color swatches (P/N 05-03146). STC sets are for two seats; OEM sets are for one seat..

BEECHCRAFT STC SHOULDER HARNESS KITS

3 Point Diagonal Systems
- Complete New Belt Assemblies
- Shoulder and Lap Belts for 2 Seats - Pilot & Co-Pilot
- All Required Hardware
- Instruction Manual
- Supplemental Type Certificate

STC, 3RS-114FS Fixed Restraint, Kit .....P/N 05-03127 ..... ---
STC, 3RS-114IR Inertial Reel, Kit .....P/N 05-03128 ..... ---
Beechcraft Replacement Rear Lap Belt .....P/N 05-06886 ..... ---

Approved Single Engine Models:
35, 35R, A35, B35, C35, D35, E35, F35, G35, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33

Approved Multi Engine Models:
95, 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B, 95-C55, 95-C55A, B95, B95A, D95A, D55, D55A, E55, E55A, E95, A56TC, 58, 58A

BEECH FIXED STRAP SHOULDER HARNESS KITS

FAA approved STC / PMA kit for the installation of 3 Point Diagonal (Single Strap Over) fixed strap (manually adjustable) shoulder harnesses in the 2 front seats (pilot and co-pilot) of an aircraft that did not come with factory installed shoulder harnesses.
Alpha Aviation's Beechcraft Fixed Strap STC Kit includes all of the required FAA PMA parts and hardware to create the shoulder harness attachment points in the pilot and co-pilot positions as well as TSO-C114 OEM quality AmSafe® 3-point diagonal belt assemblies.

Applications: • STC SA04310CH 19A, M19A, B19, 23, A23, A23A, A23-19, B23, C23, A23-24, A24, A24R
Black Beech 3RS-114FR.....P/N 05-22914 ..... ---
Black 3RS-114IR.....P/N 05-22913 ..... ---

COLOR SWATCHES

Color swatches for your desired color group are available to be shipped to you via priority mail. When you have chosen your color, you can place your order by phone (1-877-4-SPRUCE) or order online. Then return the color swatches to Aircraft Spruce and we will credit you the $25.00 charge when you place your order for seatbelts/ harnesses. For domestic orders only. International customers, please call for pricing. Custom color belts/harnesses are special order and are non-returnable. Lead time is three weeks for a custom color order.
P/N 05-03146..... ---

CESSNA STC SHOULDER HARNESS KITS

• Belt Assemblies -Shoulder & Lap Belts for Pilot & Co-Pilot • All Required Hardware • Instruction Manual • Supplemental Type Certificate
STC, C100-114IR, Front Inertial Reel, Kit ...P/N 05-03131 ..... ---
STC, C100-114FS, Front Fix Strap, Kit.....P/N 05-04193 ..... ---
177A/177B Minor Change Kit for 3-PT Front Seat (One)
P/N 05-22894 ..... ---

CESSNA OEM REPLACEMENT BELTS

• Replace Your Existing Shoulder Harnesses • Complete New Belt Assemblies - Shoulder and Lap Belts Cessna 100/200 OEM Replacement Front, Fixed Strap (Sold as each).....P/N 05-03132 ..... ---
Cessna 100/200 OEM Replacement Inertial Reel, Upgrade.
Sold as each.....P/N 05-03133 ..... ---
Cessna OEM Replacement (all models) Rear Lap Belts (Sold as each) .
P/N 05-06887 ..... ---
Cardinal 177/177A/177V/177RG Fixed Strap Replacement with Minor Change Kit.....P/N 05-27512 ..... ---
Cardinal 177/177A/177V/177RG Inertial Reel Replacement with Minor Change Kit.....05-27513 ..... ---
Cessna 205/206/207/210/P210 Fixed Strap Replacement with Minor Change Kit.....05-27514 ..... ---
Cessna 205/206/207/210/P210 Inertial Reel Replacement with Minor Change Kit.....05-27515 ..... ---

PIPER STC SHOULDER HARNESS KITS

3 Point Diagonal Systems
• Complete New Belt Assemblies • Shoulder and Lap Belts for 2 Seats - Pilot & Co-Pilot • All Required Hardware • Instruction Manual • Supplemental Type Certificate
STC, PA23-114IR Front Inertial Reel, Kit....P/N 05-03141 ..... ---
STC, PA28-1141R Front Inertial Reel, Kit...P/N 05-03143 ..... ---
OEM Replacement Front Inertial Reel.....P/N 05-04194 ..... ---
Replacement All Model Rear Lap Belt.....P/N 05-03134 ..... ---
STC, PA23-114FS Front Fixed Strap, Kit ...P/N 05-03140 ..... ---
STC, PA24-114FS Front Fixed Strap, Kit....P/N 05-04928 ..... ---
STC, PA24-114IR Front Inertial Reel, Kit....P/N 05-04929 ..... ---
STC, PA28-114FS Front Fixed Strap, Kit....P/N 05-04930 ..... ---
STC SA02015CH Approved Models:
PA28-140, PA28-150, PA28-160, PA28-180, PA28-235, PA28R-180, PA28R-200, PA28S-160, PA28S-180, PA32-260, PA32-300, PA32S-300

AP

L&P AERO WINDSHIELDS

LP AERO PLASTICS INC.

L&P AERO WINDSHIELDS
COMPLETE WINDOW SETS - SKYLIGHTS - LANDING LIGHT LENSES

Replacement glass for over 350 different aircraft models from the oldest to the latest production - both domestic and foreign. Each can be confirmed with serial and model number, year of manufacture, thickness of material and cross-referenced with OEM part number. Manufactured of high optic quality acrylics. Available in clear, green and solar gray tints. To assure quick delivery at minimum cost, orders are shipped directly from our manufacturer's warehouse in Pennsylvaniaa Generally speaking, one-piece windshields require shipment by motor freight, two-piece windshields can be shipped by United Parcel Service. All windshields/windows are special order, they are non-cancelable and non-returnable. Advise complete aircraft model and serial number!

VISIT WWW.AIRCRAFTSPRUCE.COM FOR MORE INFORMATION AND MODELS AVAILABLE.

FLY COOLER, HEALTHIER AND SMARTER
with UV-SG and UV-GT tint windshields and windows from LP Aero Plastics

Say so long to sun damage. Blocking the sun's damaging rays benefits you, your passengers and your aircraft. With far less UV and IR radiation entering the cabin, occupants are less likely to suffer sun-related skin and eye damage - and they'll enjoy cooler cabin temperatures to boot. **UV-SG Solar Gray and UV-GT Green tints can reduce interior temperatures by as much as 20 degrees.** While you and your passengers bask in greater comfort, you'll also reduce the workload on the air conditioning systems. UV and IR radiation can also wreak havoc on avionics and interior components, such as plastic panels and seat materials. That damage is significantly reduced with the UV-SG and UV-GT tints.

Aircraft	Clear Part No.	Clear Price	Smoke Part No.	Smoke Price	Green Part No.	Green Price
192 Aeronca Citabria 7ECA, 7GC4A, 7GCBC, 7KCAB	192C	—	192SG	—	05-02225	—
Aeronca Chief 11AC, BC, CC	05-02177	—	05-02229	—	05-02228	—
Bellanca Viking	05-02188	—	05-02231	—	05-02330	—
Beech Bonanza Left 187 thru G-35	250C	—	05-02227	—	05-02226	—
Beech Bonanza Right 187 thru G-35	251C	—	05-02233	—	05-02232	—
Beech Bonanza Left 250 H-35-V-35, Baron 55	280C	—	05-02235	—	05-02234	—
Beech Bonanza Right 250 H-35-V-35, Baron 55	281C	—	05-02237	—	05-02236	—
Cessna 120-140 S/N 8001 to 8799	301C	—	05-02239	—	05-02238	—
Cessna 120-140 S/N 8800 + up	300C	—	300SG	—	05-02240	—
Cessna 140A, 150, 152	303C	—	303SG	—	303G	—
Cessna 170 1948-49 to S/N 18728	310C	—	05-02242	—	---	---
Cessna 170A S/N 18729 to 20676	306C	—	05-02243	—	05-02244	—
Cessna 172 S/N 47747 to 49544	05-02178	—	05-02245	—	05-02246	—
Cessna 170B S/N 20267+up 1952 to 1955	312C	—	05-02247	—	312G	—
Cessna 172 S/N 28000 to 47746	312C	—	05-02247	—	312G	—
Cessna 172 S/N49545 to 50572	313C	—	05-02250	—	05-02249	—
Cessna 172 S/N 50573 to 72884	345C	—	345SG	—	345G	—
Cessna 172 S/N 72885 & up	337C	—	05-02251	—	337G	—
Cessna R172K S/N R2000 to R3199	05-02179	—	05-02252	—	---	---
Cessna 177, 177RG	329C	—	05-02253	—	05-02254	—
Cessna 180 S/N 30000 to 31260	309C	—	05-02255	—	05-02256	—
Cessna 180 S/N 31261 - 50355	315C	—	05-02257	—	05-02258	—
Cessna 180 S/N 50356 - 51183	316C	—	316SG	—	05-02259	—
Cessna 182 S/N 33000 - 51556	315C	—	05-02257	—	05-02258	—
Cessna 182 S/N 52556 - 53598	316C	—	316SG	—	05-02259	—
Cessna 182 S/N 53599 to 55844	338C	—	05-02262	—	05-02261	—
Cessna 182 S/N 55845 to 64296	339C	—	339SG	—	339G	—
Cessna 205	325C	—	05-02263	—	05-02264	—
Cessna 206 S/N U206-0001 thru U206-0437	325C	—	05-02263	—	05-02264	—
Cessna P20 S/N 0001 - 0160	325C	—	05-02263	—	05-02264	—
Cessna U206 S/N 0438+up	326C	—	05-02265	—	326G	—
Cessna P206 S/N 0161+up	326C	—	05-02265	—	326G	—
Cessna 207	05-02180	—	05-02269	—	05-02268	—
Cessna 210 S/N 57841 - 58220	325C	—	05-02263	—	05-02264	—

Aircraft	Clear Part No.	Clear Price	Smoke Part No.	Smoke Price	Green Part No.	Green Price
Cessna 210 S/N 58221 - 58510	05-02182	—	05-02266	—	05-02267	—
Cessna 210 S/N 58511 - 58715	325C	—	05-02263	—	05-02264	—
Cessna 210 S/N 58716 - 58818	326C	—	05-02265	—	326G	—
Cessna 210 S/N 58937 + up	05-02183	—	05-02271	—	05-02270	—
Cessna 310 S/N 35000 to 35546	05-02184	—	05-02272	—	05-02273	—
Cessna 310 S/N 35547 to 39299	05-02187	—	05-02275	—	05-02274	—
Cessna 310 S/N 310-0001 to 310 K-0245	05-02187	—	05-02275	—	05-02274	—
Cessna 310 S/N Looo1 to 310Q0400	05-02185	—	05-02277	—	05-02276	—
Cessna 310 S/N Q0401+up	05-02186	—	05-02280	—	05-02281	—
Ercoupe 415 or G-Bubble	351C	—	05-02283	—	05-02285	—
Grumman AA1, AA1A, AA1B	657C	—	05-02286	—	05-02287	—
Grumman AA1,AAA-1A, AA-1B Canopy	658C	—	05-02288	—	05-02289	—
Grumman AA5, AA-5A, AA5B	05-02189	—	05-02290	—	05-02291	—
Luscombe 8 Series	400C	—	400SG	—	---	---
Mooney MK20-21, 1959-64 Left	100C	—	05-02292	—	05-02293	—
Mooney MK 20-21, 1959-64 Right	101C	—	05-02294	—	05-02295	—
Mooney 1965-1969 (4 cabin Windows) Left	133C	—	05-02296	—	05-02297	—
Mooney 1965-1969 (4 cabin Windows) Right	134C	—	05-02298	—	05-02299	—
Mooney 1967-1969 (6 cabin Windows 1 pc.)	05-02190	—	05-02301	—	05-02302	—
Mooney M20J and M20K	05-02192	—	05-02303	—	05-02304	—
Piper J-3	450C	—	450SG	—	05-02278	—
Piper PA-12-Round Top	455C	—	05-02305	—	05-02306	—
Piper PA-12 Square Top	456C	—	456SG	—	05-02352	—
Piper PA-15, 16, 17	459C	—	05-02308	—	05-06842	—
Piper PA-22 Tripacer, 108 Colt, Bubble	463C	—	463SG	—	463G	—
Piper PA-23 Apache S/N 1502 + up Right	05-02193	—	05-02310	—	05-02311	—
Piper PA-23-250 S/N 27-2000 +up Left	421C	—	05-02312	—	05-02313	—
Piper PA-23-250 S/N 27-2000 + up Right	422C	—	05-02314	—	05-02315	—
Piper PA-24 Comanche Left	05-02194	—	05-02316	—	05-02317	—
Piper PA-24 Comanche Right	05-02195	—	05-02320	—	05-02321	—
Piper PA-25 Pawnee S/N 1-655	485C	—	05-02318	—	05-02319	—
Piper PA-25 Pawnee S/N 656 + up	486C	—	05-02322	—	05-02323	—
Piper PA-28 Cherokee S/N 1 + up Left (.125)	490C	—	490SG	—	490G	—
Piper 28 Cherokee S/N 1 + up Right (.125)	491C	—	491SG	—	491G	—
Piper PA-28 Cherokee (.250) Left	905C	—	905SG	—	05-02324	—

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

L&P AERO WINDSHIELDS
(CONTINUED FROM PREVIOUS PAGE)

Aircraft	Clear Part No.	Clear Price	Smoke Part No.	Smoke Price	Green Part No.	Green Price
Piper PA-28 Cherokee (.250) Right	907C	—	907SG	—	05-02325	—
Piper PA-32-260 S/N 1-7300076 Left	492C	—	05-02326	—	05-02327	—
Piper PA-32-260 S/N 1-7300076 Right	493C	—	05-02328	—	05-02329	—
Piper PA-38-112 Tomahawk S/N 78A0001 to 82A0122	795C	—	05-02330	—	05-02331	—
Rockwell 112, 114	508C	—	05-02332	—	05-02333	—
Stinson 108 Left	552C	—	05-02334	—	05-02335	—
Stinson 108 Right	553C	—	05-02336	—	05-02337	—
T/Craft BC-12d 1946 +up	650C	—	05-02338	—	05-02339	—
T/Craft BC-1940-41, Pre-war BC-65	651C	—	05-02340	—	05-02341	---

Aircraft	Clear Part No.	Clear Price	Smoke Part No.	Smoke Price	Green Part No.	Green Price
Piper PA-28 Cherokee A-28, -140, -150, -160, -180, -235	055C	—	05-02346	—	05-02347	—
Cessna 152, A152, F152, FA152	303/302C	—	303/302SG	—	303/302G	—
Cessna 152, A152, F152, FA152	312/CMB	—	05-02353	—	05-02354	—
Cessna 170B S/N 20267 +up 1952 to 1955	312/CON	—	05-02359	—	05-02360	—
Cessna 150, A150, F150, FA150	360C	—	05-02348	—	05-02349	—
PA-18, PA-19 (L-18C)	464C	—	462SG	—	05-02350	—
PA-20, PA-22	462C	—	462SG	—	462G	—
Cessna 172, P172, F172	---	---	05-02351	—	389G	—

LP AERO HEAVY THICKNESS WINDSHIELDS

STC Conversions

We now carry these STC Conversion extra thick windshields which are FAA approved for the following aircraft and which install as easily as the standard .250 thick windshields. Available in 3 thicknesses.

FAA APPROVAL LIST

Beech Bonanza F33
s/n CD-1235 – CD 1254
Beech Bonanza G33
s/n CD-1255 – CD 1304
Beech Bonanza F33A
s/n CE-290 and up
Beech Bonanza F33C
s/n CJ-26 and up
Beech Bonanza 33 thru E33A
s/n CD-1 – CD-1234,CE-1 - CE-289, CJ-1 – CJ-25
Beech Bonanza H35 thru V35A-TC
s/n D4866 – D9068
Beech Bonanza V35B thru V-35B-TC
s/n D9069 and up
Beech Bonanza 36 & A36
s/n E-1 and up
Beech Bonanza A36TC & B36TC
s/n EA-1 and up
Beech Baron 58 & 58A
s/n TH-1 and up
Beech Baron TC58 & 58TCA
s/n TK-1 and up
Beech Travelair 95 thru E95
s/n TD-1 – TD-721

CESSNA 150/152/172/177/182/210 WINDOWS

Aircraft Spruce stocks replacement windows for Cessna single and twin engine aircraft as well as all windshields and windows manufactured by LP Aero Plastics. Call or email Aircraft Spruce for quotation and specify year, serial number of aircraft and windows required.

Call: 1-877-4SPRUCE • Email: info@aircraftspruce.com

WINDSHIELD INSTALLATION ACCESSORIES

This is an adhesive backed, closed cell foam tape which is available as a 100' roll. This tape can be wrapped around the edges of the windows to both cushion and seal. DO NOT STRETCH DURING APPLICATION, IT WILL PULL BACK AND LEAVE GAPS. Piper used this extensively in their window installations.

1/4"x1/16" x 100' roll.....P/N 05-99100 .....**---/rl**
1-1/4" x 1/16" x 25" roll.....P/N 05-04864 .....**---/rl**
1-1/4" X 1/16".....P/N 05-02132 .....**---/ft**
Felt – Adhesive-backed 1-1/2" x 1/16".....P/N 05-99110 .....**---/ft**

INSTALLATION KIT FOR PA-28 / PA-32 / PA-34 / PA-44

Installation kit for Piper PA-28, -32, -34, -44 models with 2 piece windshields. **In The Box**: • 2 - SP-1100BL – polyurethane sealant – black • 1 - SP-FT114125 – Foam sealing tape 1 ¼" x 1/16" x 25'.

P/N 05-27140 ..... **---**

PPG PR-1425 CLASS B - CANOPY / WINDSHIELD SEALANT

PR-1425 Class B is an aircraft windshield and canopy sealant. It has a service temperature range from -65°F to (-52°C) to 250°F (121°C), with intermittent excursions up to 275°F (135°C). This material is designed for fillet sealing of properly prepared glass, polycarbonate, acrylic and other aircraft sealing applications. This product is specifically formulated not to craze substrates. The cured sealant exhibits excellent resistance to UV and weather exposure. PR-1425 Class B is a two-part, dichromate cured polysulfide compound. The uncured material is a low sag, thixotropic paste, suitable for application by extrusion gun or spatula. This sealant has excellent adhesion to common aircraft substrates.....P/N 09-05741 ..... **---**

LP AERO INDIVIDUAL WINDOWS

Window Model No.	Aircraft	Description
231	Aeronca	Left front sliding-forward
232	7AC	Left front sliding-rearward
233		Left or Right rear
234		Right front door
225	Aeronca	Left or Right front door (sliding)
226	11AC	Left or Right rear (Door) (sliding)
227		Left or Right rear
342	Cessna	Left or Right door
343	120/140	Left or Right rear
344		Left or Right skylight
370	Cessna	Left or Right rear
374	170	Left or Right door
362	Cessna	Left or Right rear
369	180	Left or Right door
006	J-3	Skylight
008		Left front triangle
009		Left pilot sliding
010		Left rear
011		Right rear
012		Right door
436	PA-12	Left front (sliding)
437		Left rear
438		Door
439		Right rear
015	PA-16,20	Right door
016	22	Right rear
021		Left front stationary
017		Left front sliding
019		Left rear door
465	PA-18	Right door
466		Right or Left rear
467		Rear sliding
468		Front sliding (left)
469		Left pilot
020	Late PA-20	Left or Right square (rear)
021		Left front pilot
023		pilot-vented

SEE OUR WEBSITE FOR COMPLETE LIST OF LP AERO WINDSHIELDS AND WINDOWS.

FOAM TAPE

An adhesive backed, closed cell foam tape. Can be wrapped around the edges of the windows to both cushion and seal. Do not stretch during application, it will pull back and leave gaps. Piper used this extensively in their window installations. The 1/4" tape IS used mainly for vent window gaskets.

1/4" x 1/8" x 10' Roll.....P/N 05-04754 ..... **---**

AP

ASHBY AIRCRAFT GLARESHIELDS

Produced from 100% fiberglass that is hand-laminated to form a one-piece structure. They are manufactured out of fire retardant resin that meets Federal Aviation Regulations (FAR) parts 23 and 25. Prevent sun from reflecting in your instruments, allowing you to read them clearly. It will also protect sensitive instruments from heat and is impervious to damage from the sun's rays. Molded with a rich leather texture, which is pleasing to the eye, and has a semi-gloss black finish. On most models it fits flush with the windshield, and extending 3" past the front of the panel. A reinforced lip for mounting optional lights to illuminate the instrument panel, which also serves as hand-holds when entering and exiting the cockpit, or when adjusting your seats. There is also space for switches and annunciator lights. This part can be manufactured under contract with the owner operator under FAR 21.303b2. It is the owner operator's responsibility to determine airworthiness and applicability.

CESSNA

For Model	Glareshield		w/ 12V Lights		w/24V Lights	
	Part No	Price	Part No	Price	Part No	Price
120, 140, 150 (thru F, 1959-1966),	05-03871	---	05-03908	---	05-03945	---
152 (1978-1986)	05-03872	---	05-03909	---	05-03946	---
170, 170A (1948-1951), 172 (1956-1958)	05-03873	---	05-03910	---	05-03947	---
170B, 1952-1956	05-03874	---	05-03911	---	05-03948	---
172A thru D(1960-1963), 175 (all)	05-03876	---	05-03913	---	05-03950	---
172 1959 only	05-03875	---	05-03912	---	05-03949	---
172E thru N, 172P, 172Q, 172XP, 172RG 1974-1986 (all)	05-03877 Stc'd	---	05-03914	---	05-03951	---
180A thru H, 182 thru D, 185 thru E, F Models Prior to 1974	05-03878 Stc'd	---	05-03915	---	05-03952	---
180J, 185 (1974-1986)	05-03879	---	05-03916	---	05-03953	---
182 (1962-1963)	05-03880	---	05-03917	---	05-03954	---
182 1964-1965 (Early Slight Radius on Top.)	05-03881	---	05-03920	---	05-03957	---
182 (1969-1974)	05-03884	---	05-03921	---	05-03958	---
182 (1975 only)	05-03885	---	05-03922	---	05-03959	---
182 1977-1986, 182R	05-03886	---	05-03923	---	05-03960	---
205 (1963-1965 early)	05-03887	---	05-03924	---	05-03961	---
206 1965 (Late) -1967 Not avail. for 1968-1969, 210 1965 (Late) -1967 Not avail. for 1968-1969.	05-03888	---	05-03925	---	05-03962	---
206 (1970-1986), 210 (1970-1986)	05-03889	---	05-03926	---	05-03963	---
210 (1960-1961)	05-03890	---	05-03927	---	05-03964	---
210 (1962 only)	05-03891	---	05-03928	---	05-03965	---
XP210	05-04096	---	05-04097	---	05-04098	---
336 (all), 337 (all)	05-03892	---	05-03929	---	05-03966	---

PIPER

For Model	Glareshield		w/ 12V Lights		w/24V Lights	
	Part No	Price	Part No	Price	Part No	Price
PA-23 (1956-1963)	05-03893	---	05-03930	---	05-03967	---
PA-24, PA24-250, 260, 400, PA-30 (all)	05-03894 Stc'd	---	05-03931	---	05-03969	---
PA-28-140, 150, 151, 160, 161, 181, 201T, 235, 236, PA-28S-160, 180, PA-28R-180, 200, 201, 201T, PA-28RT-201, 201T, PA-44-180, 180T	05-03895 Stc'd	---	05-03932	---	05-03970	---
PA-28(1964-1967), PA-28-150, 160, 180, 235 (Large Hump over Radio Stack)	05-03896 Stc'd	---	05-03933	---	05-03971	---
PA-32-260, 300, 301, 301T, 301FT, 301XTC, PA-32S-300, PA-32R-300, 301T, 301(SP), 301(HP), PA-32RT-300, 300T, PA-34-200, 200T, 220T	05-03897 Stc'd	---	05-03934	---	05-03972	---
PA-38 (all)	05-03898	---	05-03935	---	05-03973	---

BEECHCRAFT

For Model	Glareshield		w/ 12V Lights		w/24V Lights	
	Part No	Price	Part No	Price	Part No	Price
BE-23	05-04093	---	05-04094	---	05-04095	---
BE-33 1947-1961, BE-35 1947-1961	05-03899	---	05-03936	---	05-03974	---
BE-33 1962-1971, BE-35 1962-1971, BE-55 1962-1971, BE-95 1962-1971	05-03901	---	---	---	---	---
BE-33 1962-1971, BE-35 1962-1971, BE-55 1962-1971, BE-95 1962-1971	05-03903 W/Plenum	---	05-03940	---	05-03977	---
BE-33 1972-1983, BE-35 1972-1983, BE-36 1971-1983, BE-58 1971- 1983	05-03905 W/Plenum	---	05-03942	---	05-03979	---
BE-33 1962-1983, BE-35 1962-1983	05-03904	---	---	---	---	---

MOONEY

For Model	Glareshield		w/12V Lights		w/24V Lights	
	Part No	Price	Part No	Price	Part No	Price
201 (1977-1983)	05-03907	---	05-03944	---	05-03981	---

LIGHTS

Lights	Part No.	Price
12 Volts, 8 Bulbs, 18"	05-03998	---
24 Volts, 8 Bulbs, 18"	05-03999	---
12 Volts, 12 Bulbs, 34"	05-03994	---
24 Volts, 12 Bulbs, 34"	05-03995	---

PIPER PA28/32/34 GLARESHIELDS

These beautiful new Glareshields are designed for the Piper models PA28, PA32 and PA34. The new Glareshield is made of FAA approved temperature stable Lexan covered with sound proofing foam and a new non-glare vinyl that looks like leather. With a 3 inch eyebrow over the instrument panel, it not only adds beauty to your plane but also improves forward visibility. The new Glareshield is easy to install and comes with all hardware and detailed instructions. The standard PA-28 glare shield has 20 inches from center to center between the defroster holes and has the SCAT defroster hose application. This is most PA-28 aircraft made before 1974. Post 1978 aircraft have 22 2/4" separation between holes, and a fiberglass distribution system. Please confirm applicability and dimensional information prior to order.

Piper PA28 Pre 1974..... P/N 05-02221 .....---
Piper PA28 Post 1974..... P/N 05-12762 .....---
Piper PA32 & 34..... P/N 05-02222 .....---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CEE BAILEY AIRCRAFT WINDSHIELDS

Cee Bailey's Aircraft Plastics has been producing superior replacement windows and windshields for light aircraft since 1955. These windshields are custom built to fit your aircraft's serial number. This handcrafting insures a perfect, distortion-free windshield, trimmed and ground to fit your aircraft with little or no modification. Optical qualities, contour, shape and fit are exceptional. All windshields and windows are FAA/PMA approved. Cee Most windows and windshields are available in clear, green, and solar grey. Prices are for clear. Add 15% to prices for green or grey tints. When ordering, specify model number, year, and serial number of the aircraft.

Make/Model
Aero Commander 2pc w/s Left
500, 520, 560, 680 Right
Aero Commander 100 Darter-Lark Volaire 10 or Volaire 10A
Aeronca Citabria
Aeronca Chief
Beechcraft Musketeer, Sundowner, Sierra, Sport (.125)
Musketeer, Sundowner, Sierra, Sport (.187)
Bonanza 33/35, 2pc w/s (per side)
Bonanza 33/35/36/55/58/95 1pc w/s (must check s/n carefully)
Bellanca Cruisemaster models 14-19, 14-19-2, 14-19-3
Viking, Super Viking 14-19-3A,17-30 17-30A, 17-31A, 17-31ATC
Cessna 120-140 (S/N 8800 & up)
140A, 150, 152
152

Make/Model
172 (S/N50573 to 72884)
180,182 (S/N52556 to 53598)
182 (S/N 53599 to 55844)
182 (S/N 55845 to 64296)
205, 206, U206, P206
207
210 (S/N 58716 to 58818)
Ercoupe - Fornair (bubble type w/s)
Grumman - AA1, AA1A, AA1B
GrummanCanopy-AA1,AA1A,AA1B
Luscombe 8 series
Mooney M20, M20a/b/c/d/e prior to 1965 (2pc w/s)
Mark21,M20c,Super21,M20e,Master M20d, Executive21 M20f, after 1965
Ranger M20c, Chaparral M20e, Executive M20f, Statesman M20g
Navion A/B/D/E/F Std. or flush type (2pc w/s)

Make/Model
Navion Rangemaster G&H 2pc w/s
Piper J-3 Cub
PA-12 square top (late model)
PA-12 square top (early model)
PA-15/16/17/22 108 colt bubble
Apache 23 (S/N 1502 & up) RorL
Pawnee 25 (S/N 656 & up)
Cherokee PA-28 (.125) RorL
Cherokee PA-28 (.250) RorL
Stinson HW-75 2pc
Stinson Voyager108, 108-1/2/3 2pc w/s
Taylorcraft BC-12D, 1946 & up
Taylorcraft B 1940–41
Yak 52 Windshield (4 sections) *all windows available canopy, side windows, center fixed, aft siding, rear fixed
Yak CJ69 (*all windows available canopy, fwd sliding, center fixed, aft siding, rear fixed)

SEE WWW.AIRCRAFTSPRUCE.COM FOR UNLISTED WINDSHIELDS AND WINDOWS FOR BEECHCRAFT BONANZA, DEBONAIR, BARON, MUSKETEER, TRAVELAIR, BELLANCA, CRUISAIR, AERONCA CHAMPION, AERONCA SEDAN, AND AEROCOMMANDER.

AP

MICRO VORTEX GENERATOR KITS

Micro Vortex Generators from Micro Aerodynamics, Inc. are available for a wide range of aircraft and can reduce stall speed, improve aileron response, improve cross wind control, and reduce landing and takeoff roll. The kits consist of vortex generators mounted on the wings, the horizontal stabilizer, and the vertical stabilizer. The generators are manufactured under FAA/PMA from 6063T6 aluminum and are curved to fit the contour of the wing. Included in the kits are installation tools, detailed drawings and instructions, templates for positioning VG's, spares, Loctite Depend adhesive and all the materials needed for the easy one-day installation. When ordering, specify aircraft, serial number, N number, paint name and number (additional --- to match), make and model, and any modifications to aircraft. Generic VG kit used on LongEZ, RV-4/6/8, Rans, Murphy Rebel and others. Specify Aircraft make and model.

Make/Model	Part No.	Price
CESSNA TWINS 310G thru 310Q	05-00602	---
310R & T310R (ZFW & GWI - 180 lbs)	05-00604	---
320B/C/D/E/F	05-00605	---
336 & 337	05-04404	---
340A, 340, 335 (GWI 300 lbs)	05-00606	---
401, 401A, 401B	05-00607	---
402, 402A, 402B	05-00608	---
402C (ZFW & GWI - 360 lbs)	05-00609	---
411, 411A	05-00610	---
414	05-00611	---
414A, 414AW (ZFW & GWI - 350 lbs)	05-00613	---
421, 421A	05-00614	---
421B & 421C (GWI - 129 lbs)	05-00615	---
CESSNA SINGLES		
120, 140 Series	05-04393	---
150, 152 (all models)	05-04394	---
170 "Rag Wing"	05-04189	---
170A, 170B	05-00616	---
172, 175 Series	05-00618	---
177, 177A, 177B, 177RG, F177RG	05-04397	---
180, 185 Series	05-00617	---
182 Series	05-04469	---
205, 206, 207 Series	05-00619	---
210 (all models)	05-04470	---
Cessna P210N	05-04265	---
Cessna P210R	05-04266	---
Cessna (T)210 SER	05-04264	---
Baron 55 A/B/C/D/E	05-00621	---
Baron 58, 58A	05-00623	---
Baron 58TC, 58P	05-00624	---
Duke 60, A60, B60	05-00626	---
Twin Bonanza	05-00627	---
Travel Air	05-00628	---
BEECH SINGLES		
Musketeer, Sierra, Sundowner	05-04391	---
Bonanza 35 Series	05-00629	---
Bonanza 33, 36, A36, A36TC, B36TC	05-00630	---
Beechcraft Debonair 33	05-04392	---

Make/Model	Part No.	Price
PIPER TWINS		
Aztec PA-23-250	05-00633	---
Geronimo PA-23-180	05-00634	---
Twin Comanche PA-30, PA-39	05-00635	---
Seneca II (ZFWI - 168 lbs)	05-04472	---
Seminole PA-44-180, PA-44-180T	05-00636	---
PIPER SINGLE		
J-3, J-4, J-5, PA-11 (includes the horizontal stabilizer)	05-00640	---
PA-12/PA-18	05-00639	---
PA-15, PA-16, PA-17	05-04399	---
PA-22, PA-20	05-00641	---
PA-24 Comanche	05-04401	---
PA-28 All Models	05-00642	---
PA-32 Cherokee Six, Lance (except T-Tail)	05-00939	---
PA-32 Saratoga	05-00938	---
MOONEY		
M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K, M20L, M20M, M20R, M20S	05-04402	---
ROCKWELL COMMANDER		
112, 112TC, 112TCA, 114, 114A, 114B, 114TC, 115TC	05-00646	---
LAKE		
LA-4, LA-4A, LA-4P LA-4-200, Model 250	05-00647	---
AMERICAN CHAMPION		
Aeronca Champ, Scout Citabria: 7AC, 7ACA, 7BCM, 7CCM, 7DC, 7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7JC, 7KC, 7KCAB, 8KCAB, 8GCBC	05-00644	---
Aeronca Chief: 11AC, S11AC, 11BC, S11BC, 11CC, S11CC	05-04473	---
Aeronca Sedan: 15AC, S15AC	05-04190	---
AVIAT Husky A-1, A-1A, A-1B	05-00643	---
MAULE M-4, M-5, M-6, M-7 MT-7, MX-7, MXT-7, M-8	05-00645	---
STINSON 108, 108-1, 108-2, 108-3, 108-5	05-04403	---
TAYLORCRAFT Taylorcraft Series	05-01208	---

AIR VENTS

AP

AEROVENT

Modeled after the original SnapVent CC3251, the AeroVent is a crystal-clear, fire-retardant LEXAN™ polycarbonate (complaint to FAR 25.853(a)), pop-out, 360o rotatable, vent that improves air circulation throughout the cabin of your small plane or helicopter. Install one each side of your aircraft, one facing forward, scooping the outside air inwards and the other facing aft to allow air to exhaust outwards, and create a cooling cross breeze in the cabin. Installed in the same 3 ¼" diameter hole as the original CC3251. P/N 05-28827 ..... ---

WEMAC AIRCRAFT LIGHT & EYEBALL AIR VENT REMOVAL TOOL

The WEMAC Aircraft Overhead Cabin Light & Air Vent Removal Tool quickly and safely removes WEMAC cabin light and air vent housings for servicing.

Features: • Does not damage the housing when removing. • Manufactured with high friction elastomer tip for maximum grip • Made of high quality durable material and will not break or crack • Saves time and money on airplane technician labor costs.

Specifications: • 3 5/8" High x 2 1/8" Diameter

P/N 06-01565 ..... ---

EYEBALL AIR VENT ADAPTER

The extension on the back of these aluminum eyeball air vents is very narrow and allows little room to attach SCAT ducting. This adapter enables the user to attach 2" diameter SCAT ducting to the back of the vent using a stainless steel clamp.....P/N 05-04067 ..... ---

EYEBALL SWIVEL VENT

This high quality, economical swivel air vent is made from 2024T351 aluminum and is available anodized black or grey. Diameter of the flange is 2.75" and the vent is designed to attach with a standard 2" air duct flange. The vent hole of this eyeball swivel vent is 7/8". The knurled collar on the vent swivels 60° to adjust air volume and direct air flow as desired. The vent features 4 mounting holes (1/8" dia.) which are spaced 2-3/8" apart or a mounting plate with a thickness of .71". Made in USA

Eyeball Swivel Vent - Black.....P/N 05-00779 ..... ---
Eyeball Swivel Vent - Grey.....P/N 05-00787 ..... ---
2" Flange Adapter.....P/N 10350-8 ..... ---

PLASTIC EYEBALL AIR VENTS

These ball and socket air vents are injection molded T grade ABS. The vent orifice is 1" dia., and the ball swivels 45°. The mounting flange is 2-1/8" square, and the distance between mounting hold centers is 1-11/16". Mounts in 1.75" dia. hole & uses 1-3/4" ducting. Wt: 1.25 oz. ea.

Gray.....P/N 05-04082 ..... ---
White .....P/N 13-01943 ..... ---
Black.....P/N 05-04079 ..... ---
Beige .....P/N 05-04081 ..... ---

CESSNA 210 FRESH AIR VENT SYSTEM

Replaces the forward cabin vent. Features durable Wemac air vents, full/partial closure, directional control, and positive shut-off. All metal construction. Completely replaces the old style, plastic overhead fresh air vents in most Cessna 210 aircraft. Full system includes the forward center, and aft systems. STC approved.

Full system .....P/N 05-04092 ..... ---
Pilot & Co-Pilot .....P/N 05-04083 ..... ---
Center Vents (total of 2 units) .....P/N 05-04085 ..... ---
Rear Vents (total of 2 units) .....P/N 05-04087 ..... ---

ACTIVENT ACV-100 COCKPIT VENTILATOR

Solar Powered Cockpit ventilator installs in place of the normal can type vent while the aircraft is parked. An 8ft cord allows use with the panel on the glare shield or outside the aircraft when an outsidecover is used. The system provides a minimum of 7CFM airflow through the cabin per vent. The fan is a ball bearing design with a 10,000 hr design life. Made from aircraft grade aluminum.The Solar Panel is injection molded acrylic with an integral lens system.

Standard.....P/N 05-04072 ..... ---
For Cessnas with ventubes.....P/N 05-04074 ..... ---

VENTUBE FOR CESSNAS

The Ventube is a plastic unit that consists of an exterior tube and a lockable interior tube with a cap. Air flow control is accomplished by extending or retracting the interior tube. Ventube enhances pilot and passenger comfort, allows reliable closure of the air vent, controls vent direction and flow, and reduces air vent noise and leakage. FAA approved for Cessna 120, 140, 150, 152, 170, 172, 175, 180, 182, 185, 190, 195, 205, 206, 207, 210-210F, and 305. Detailed instructions, STC, FAA Form 337, etc. are enclosed with each pair.

P/N 05-04091 .....**---/pr.**

AIRFLOW ENHANCEMENT KIT

Improves the cabin airflow in General Aviation aircraft, specifically Cessnas. Combined with Ventubes they enhance the pilot and passengers comfort (cooling & heating), allow reliable closure of the inlet air vents, control cabin air direction, increase cabin air flow, and reduce inlet air noise and leakage. The kit consists of two cabin exit vents, CEV, to allow the cabin air to exit into the aft fuselage and the fuselage exit vent, FEV in the modified inspection plate, to allow the cabin air to exit the fuselage of the aircraft ..... P/N 05-04080 ..... ---

THE COMPLETE AIRFLOW KIT

Ventubes™ (pair) - controls air flow into the cabin. Cabin Exit Vents - allows air to exit to fuselage. Fuselage Exit Vent - allows air to exit the aircraft. P/N 13-03577 ..... ---

VISTA-VENTS

Knob adjustment permits complete control of cabin air. Mounts at four points in 2-1/2" dia. hole. Cessna Supplemental Approval available online. P/N 13-03500 .....

CABIN WINDOW VENTILATOR

Plexiglass cabin ventilator. Mounts firmly at four points. Closes tight for winter flying. Uses 2-1/2" dia. hole. P/N 05-08078 ..... ---

CABIN AIR VENTILATOR

Aluminum 90° elbow type. Knurled collar rotates to control air volume. Mounts to a 2 1/2 in. Dia flange. For 1-1/4 Id scat ducting. Also good for cabin heat vents .....P/N 05-04075 ..... ---

PA 28/32 AIR VENT ASSEMBLIES

This Piper PA-28/32 Air Vent Assembly is an upgrade over the stock piper air vents. They are designed to stay out of your way, easily adjust airflow, and take a beating. Made in the USA from Industrial Grade Nylon, you can plan on installing these once and forgetting about being careful when stepping in and out of your aircraft. Installation is easy – just use the same 3 screws and mounting holes as the stock Air Vents

FAA-PMA'd see website for full list of eligible models*

Features: • Made from ultra tough, industrial grade Nylon • Low profile design gives your feet some breathing room • Ergonomic adjustment knobs make it easy to change airflow direction • USA Patent Pending • Designed, Engineered, and Made with pride in the USA • Replaces Piper 65735**

Color	Single	Price	Pack of 4	Price
Black	05-27414	---	05-27427	---
Space Gray	05-27434	---	05-27438	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

NACA INLETS - AIR VENTS

LARGE ROUND FLANGE EYEBALL VENT

This The round flange version of our large square-flange eyeball vent. Fits in a 2-3/4" hole, and has a 3" outside flange diameter.

w/ 2" Scat Adptr., Black.....P/N 05-04064 ..... ---
w/ 2" Scat Adptr., Clear.....P/N 05-04066 ..... ---
w/ Plenum Nut, Clear .....P/N 05-04414 ..... ---
w/ Plenum Nut, Black.....P/N 05-04415 ..... ---

STEINAIR AV125B EYEBALL VENT

These high quality vents have a nylon/delrin bushing encapsulated between the eyeball and the flange to protect the aluminum! With these vents you simply cut a hole, install the vent and tighten the plenum or retaining nut behind it and hook up the tubing! The vents include everything needed for install. On the small vents you can just directly attach a 2" scat tube to the vent - and on the large vents they have 2" plenums. These will come with a "BAC" part number on them, but that's because they are normally for the cockpits of fighters.

Specifications: Aluminum Eyeball Vent - (Air outlet size). Anodized.

Description	Color	Model No.	Part No.	Price
1 1/4" - OD is 2" and allows for direct connection of a 2" scat tube.	Black	AV125B	05-04061	---
1 1/4" - OD is 2" and allows for direct connection of a 2" scat tube.	Clear	AV125C	05-04063	---
1 3/4" - OD is 2 3/4" (hole size required for mounting). Includes 2" Plenum Cup.	Black	AV1625B	05-04084	---
1 3/4" - OD is 2 3/4" (hole size required for mounting). Includes 2" Plenum Cup.	Clear	AV1625C	05-04086	---

NACA INLETS

These are in two half pieces. Assembly is required.

Part No.	Model No.	0° Axes or air flow	90° Axes Total w/ Length	Duct Outlet Size Openings	Duct Flange Angle	Price
05-00859	904 MI	11.75"	8.25"	4"	90°	---
05-00862	001 HE	7.75"	4"	2.5"	Straight	---
05-00865	007 JO	5.75"	2.75"	2"	Straight	---
05-04250	009 MU-B	3"	2.75"	N/A	--	---
05-04249	009 MU-A	6.5"	3.5"	N/A	--	---

LARGE NACA SCOOP

This large NACA scoop is the largest inlet available anywhere. 0° axes of air flow 17", 90° axes total width, 10 inches with a 9" x 2" outlet or 18 square inches. A separate two-part duct can be purchased separately. This allows the user to take the air directly into a 2" or 4" hose connection. High impact polycarbonate, formed at 375° F.

Cameron NACA inlet 006-TR-A (Scoop Only)....P/N 05-01701 ..... ---

KOOL SCOOP VENTS

Very popular with Piper owners who need quick, high volume ventilation during ground operations on hot days. Kool Scoop is very easy to mount; simply peel off the adhesive backing sealer and stick it in place on the side window. It will fit any side window vent that does not have a thick frame. Made of top quality plexiglass. Really "scoops" the air from the outside to keep the pilot and passengers comfortable. Window frame not included.

Left hand (Pilot Side).....P/N 05-04076 ..... ---
Right hand (Co-Pilot Side) .....P/N 05-04078 ..... ---

LONESTAR VENTILATION BLOWER KIT

The Frosty dc motor is the same as our FAA PMA 6 port blower and has been STC approved as well. The blower's footprint is an ultra small size measuring (3.50L"x 3.50W"x 4.50H) for the blower, universal mounting bracket and speed control module. This ventilation kit is compatible with Experimental, Sport, GA, Rotor-craft, Business, Commercial aircraft, as well as Land-Mobile, Marine and Military Vehicles.

Designed for 12 and 24 volt systems the blower kit can be easily upgrade any aircraft with space for the blower, panel eyeball vents and a speed control POT. The Frosty ventilation blower includes the blower, (12/24vdc) universal mounting bracket and install Kit (LS03-02060) only.

Description	Part No.	Price
Lonestar Ventilation Blower Kit 12 Volt	11-08627	---
Lonestar Ventilation Blower Kit 24 Volt	11-08640	---

AVEOAIR™ - BALL VENTS

AveoAir™ Ball Vents are machined from 2024 aluminium alloy, and these lightweight vents are anodized in your choice of 2 color finishes: Silver or Black.

Installation is simple with 2-piece design, no screws are required as they simple thread together to hold securely.

ONLY AVEO VENTS come with a choice of 3 rear standard SCAT tube coupler diameters so you can optimize your air flow. Choose from 1.5", 1.75" or 2.0" diameters (38 mm, 44 mm, 50 mm).

1.5 Inch			1.75 Inch			2.0 Inch		
Black	05-04198	---	Black	05-04459	---	Black	05-04464	---
Silver	05-04199	---	Silver	05-04460	---	Silver	05-04465	---

AVEOAIR™ - MAXI VENTS

AveoAir™ vents line is the Maxi version. At 44% larger outlet diameter now you can get greater air flow in low speed aircraft and low-flow situations. Available with 1.5" or 2.0" diameter rear SCAT adapters and made to the same fine standards as the standard AveoAir™ vents.

Features: • CNC machined from 2024 aluminum • Anodized in matte silver or matte black • Single-hand operation • Easy install • Fits all SCAT tubing • Adjustable air flow.

Matte Black 1.5" .....P/N 05-04649 ..... ---
Matte Black 1.75".....P/N 05-04935 ..... ---
Matte Black 2" .....P/N 05-04650 ..... ---
Matte Silver 1.5" .....P/N 05-04651 ..... ---
Matte Silver 1.75" .....P/N 05-04936 ..... ---
Matte Silver 2" .....P/N 05-04652 ..... ---

AVEOAIR FOR PIPER AIRCRAFT

AveoAir Vents for Piper - the identical top quality air vent from Aveo but with a square mounting plate that is a drop-in replacement for standard plastic Piper aircraft vents.

Features: • CNC machined from 2024 aluminum • Single-hand operation • Easy install • Adjustable air flow

Silver.....P/N 05-05170 ..... ---
Black.....P/N 05-05171 ..... ---

ROUND ALUMINUM EYEBALL AIR VENT (SMALL)

Small round-flange eyeball vent. Made from aircraft-grade 6061-T6 aluminum and hard anodized, it weighs just 3 oz. and mounts in a 2" round hole. Outside flange diameter is 2-1/4", and has 25 degrees of freedom from the vent centerline. The vent is secured with a mounting ring that will accept a 1-1/2" or 2" scat hose OR a plenum mounting nut. This vent has an opening of 1.2" which is larger than competitive vents that mount in the same size hole.

with 1-1/2" Scat Adapter, Aluminum.....P/N 05-04410 ..... ---
with 1-1/2" Scat Adapter, Black.....P/N 05-04411 ..... ---
with 2" Scat Adapter, Aluminum.....P/N 05-01903 ..... ---
with 2" Scat Adapter, Black.....P/N 05-01904 ..... ---
with Plenum Nut, Aluminum .....P/N 05-04412 ..... ---
with Plenum Nut, Black .....P/N 05-04413 ..... ---

LARGE SQUARE EYEBALL AIR VENTS

Large square-flange eyeball vent. Made from aircraft-grade 6061-T6 aluminum and hard anodized, it weighs just 5 oz. and mounts in a 2-3/4" hole. The mounting flange is 3" square with a 2-1/2" mounting hole pattern, and has 25 degrees of freedom from the vent centerline (50% more than in our first generation vents.) This is a direct replacement for the "whisperflo" black plastic vents. Flows 30% more air and eliminates 99% of the leakage associated with the plastic vents when closed.

Aluminum.....P/N 05-04068 ..... ---
Black.....P/N 05-04070 ..... ---

SMALL SQUARE FLANGED EYEBALL VENT

Small square-flange eyeball vent. Made from aircraft-grade 6061-T6 aluminum and hard anodized, it weighs just 3 oz. Mounting flange is 2.20" square, with a hole mounting pattern of 1.70". Vent adjustment is 25 degrees of freedom from the vent centerline, and has an opening of 1.2" which is much larger than vents typical of this size.

Aluminum.....P/N 05-01905 ..... ---
Black.....P/N 05-01906 ..... ---

REPLACEMENT VENTS FOR CESSNA 172

This vent will replace both the upper and lower vent in most Cessna 172. It is available in Black Anodized or Clear Coat Anodized and will attach to a 2" hose or the plastic cup that fit's the lower vent with 1" hose (Adapter cup not included. Reuse the cup off old OEM vent).

Black.....P/N 05-08323 ..... ---
Clear .....P/N 05-10785 ..... ---

ACS DUAL AIR VENTS

ACS Dual Air Vents. The vent orifices are 1" diameter and both balls swivel 45°. The mounting flange is 5 1/4" x 2 1/2" rectangular.

Black .....P/N 05-12636 ..... ---
Gray .....P/N 05-12637 ..... ---

AP

UNIVERSAL SPRING LOADED LATCHES

These universal spring loaded latches are designed for aircraft canopies, cockpit doors, and baggage doors. They are available in right hand and left hand models with different striker angle lock pins on the two models. These latches work great on a wide variety of experimental aircraft. Latch flange has 3/16" holes drilled for mounting.

Left hand latch (Lock Pin) ..... P/N 05-04520 ..... ---
Right hand latch (Lock Pin) ..... P/N 05-04521 ..... ---

Also available in retracted bolt lock type latch with blunt striker (left hand and right hand).

Left hand latch (Retracted Bolt Lock)
P/N 05-00895 ..... ---

Right hand latch (Retracted Bolt Lock)
P/N 05-00896 ..... ---

BAGGAGE DOOR LOCKING LATCH FLUSH MOUNT

The locking latch has a 90° rotation handle that opens by pushing the key side of the base face. This deflection opens with the help of a spring and by rotating the handle you will pull locking pins out of the receptacles that are mounted to the inside skin of the Aircraft and outside of baggage door frame. Face opening dimension H 1 3/8" W 5.5" with radius at both ends and a .090 deep lip that will insure a flush mounting. Latch base has 4 10-32 anchor nuts for mounting to the door. The base is made of aluminum and nickel plated. Internal parts are nickel plated or stainless. Locks are weather resistant with 90° cam rotation.

Left Hand Latch ..... P/N 05-12512 ..... ---
Right Hand Latch ..... P/N 05-12513 ..... ---

SLIDER PINS AND BRACKET FOR BAGGAGE DOOR LATCH ASSEMBLY

Slider pins and bracket kit for baggage door latch assembly. **In the box:** • Quantity 2 - Kit consists of 3/8" diameter 303 SS slider pins with 3/16 diameter bolt hole at one end of slider for linkage to baggage door assembly • Quantity 2 - Slider bracket dimension H 2" W 1.2" • Quantity 1 - Switch receptacle bracket dimension H 2/3/4" W 1.4" • Quantity 1 - Receptacle bracket dimension H 2" W 1.2" *All brackets are aluminum gold anodized with 10-32 anchor nuts ..... P/N 05-12514 .....

RV-12 CANOPY LOCK

This is an easy to retrofit canopy handle for the RV-12 with an integrated locking mechanism. Over two years was put into the design and testing of this handle. This handle was designed as an easy to install accessory that can be retrofit to an existing aircraft whether painted or unpainted. In addition, it is cnc machined and powder coated and provides a much nicer finish than the stock handle. P/N 05-12908 ..... ---

ROLL BAR GRAB HANDLES

These Aircraft Roll Bar Grab Handles assists Pilots and Passengers getting in and out of the aircraft. Facilitates the repairman getting out of precarious positions when working under the instrument panel. Specifications: The handles are made from light weight aluminum • They are a solid design for strength • They are 5/16" in diameter and measure 3-1/2" long • The center to center dimension is 4" • The handle length was intentionally designed rather long • It is intended to extend thru a 1-1/2" to 2" diameter roll bar • If the handle it too long for your application, you may simply cut the length short, re-drill, & tap the handle ends.
P/N 06-03154 ..... ---

EASY EXIT BAR FOR VANS RV-A AIRCRAFT

The "Easy Exit Bar" a specialty accessory, developed specifically for use in the RV-A models. The product is installed by the handles on the roll bar to help leverage. Then, a console between the seats to push on the bar is installed. As people get older, getting in and out of the aircraft seems more difficult all the time. When you try to use your feet, you wind up stuffing the carpeting down under the rudder pedals, causing more work and frustration. Not the case with "Easy Exit Bar". With this current design being the all-around top performer. This one accessory can really save the day, and ease wear and tear on the body when exiting and entering the cockpit. The legs are considerably stronger than you're arms, and are accustomed to lifting one's body weight as well.

Carburated ..... P/N 05-22376 ..... ---
Fuel Injected ..... P/N 05-22375 ..... ---

EXPERIMENTAL AIRCRAFT DOOR LATCH

3D view Opening from Exterior Interior View Open Position This door latch was originally designed for a gull wing door with linkage rods extending both forward and aft, however it can be adapted to virtually any style door with appropriately designed linkage rods. The linkage rods are not included.

Features: • Identically keyed locks for set • Armrest flush mount interior handle • Spring loaded, flush mount exterior handle • Spring ball detent for positive open/ closed stop action

Specifications: • Made from 2024-T3 aluminum • Each latch weighs approx. 10 ounces • Dimensions for applicability pictured below • Driver travel approx. 1.25" forward and aft

For linkage rods the following aluminum is recommended: 1/4" x 1/2"

2024T3 ..... P/N 03-00104 ..... ---
Left Hand Door Latch ..... P/N 05-01415 ..... ---
Right Hand Door Latch ..... P/N 05-01416 ..... ---
Set of Left/Right Latches ..... P/N 05-01420 ..... ---

CESSNA EXTERIOR DOOR HANDLE

The "Help You Out Handle" is a FAA-PMA approved replacement part for a wide variety of Cessna aircraft. When your flimsy cast pot metal OEM door handle breaks in your hand, replace it with this solid metal handle milled from a single Billet of Aluminum. Never again wonder if the OEM handle will break the day someone tries to get you out of the aircraft.
P/N 05-15411 ..... ---

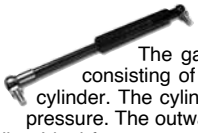
CESSNA DOOR SPRING KIT

Mcfarlane Cessna Door Spring Kit

Features: • Added support for stronger spring assembly • Improved retention system to prevent spring breakage • Steel coated with black oxide and oil - will last much longer! • Better lubrication

Applications: • Direct replacement for Cessna 182, 206, 210, and 337 .
P/N 05-27389 ..... ---

THE GAS SPRING



The gas spring is a self-contained counterbalance unit consisting of a piston and piston rod in a hermetically closed cylinder. The cylinder is factory-loaded with an inert gas at a given pressure. The outward force generated is continuous and linear at 45 lbs. Ideal for a canopy closure on homebuilts, as designed for George Meads Adventure.

Thread size: 5/16-18 ..... P/N 05-01177 ..... ---

SMALL GAS SPRING H-9530-22

Gas Springs with Composite Ends. Applications Include: Doors, lids, hatches, furniture, boats, recreational vehicles, office equipment and many more. **Note**: All composite end props use 10 mm ball studs. Safety clips are not necessary ..... P/N 06-03054 ..... ---

DOOR STEWARD™

The Door Steward is an STC and FAA-PMA approved modification for aircraft doors. The modern gas spring greatly improves and replaces easily broken, malfunctioning mechanical type door stops and restraints that become ineffectual with repeated use and age. Pilots enjoy the fact that the Door Steward gently opens and firmly holds the door open. The Door Steward consists of a modern inert gas spring with all the necessary brackets and hardware. Detailed installation instructions are included and make it easy to install and requires virtually no maintenance. Model 200C10

Features: With the Door Steward the door will open and stay open when needed. No more door flopping around in wind gusts or prop wash from taxiing aircraft. The cost is usually much less than repairing or replacing existing OEM door stops. Great on float equipped aircraft when water taxiing. FAA Approved on many single and light twins.

Application	Part No.	Price
Cessna 170,172, 175, 180, 182, 185, 205, 206, 207 and 210 (nonpressurized)	05-00922 Pair	---
Cessna Left Hand Only	05-11841	---
Cessna Right Hand Only	05-11842	---
Beech model Series: 33, 35, 36, 55, 56, 58 and 95 Piper Model Series 23, 24, 28, 30, 32, 34, 39, 40 and 44	05-03574	---
Fwd Utility Door Cessna 206, 206H, U206, TU206 and 207	05-03575	---
Cessna 177, 177A, 177B and 177RG	05-04251	---
Replacement Gas Spring Assembly for the Beech and Piper Door Steward™ with special threaded spherical bearing.	05-03574-1	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ULTRALIGHT BUCKET SEAT

Bucket seat for Ultralight aircraft.

Features:
- Molded, High Impact Nylon Seat
- Reinforced Mounting Sockets
- Expanding Anchors for Positive Mounting
- Top Quality Seat Covers

Description	Part No.	Price
Bucket Seat Only	15-06383	---
Bucket Seat Kit with Cover and Hardware	15-05070	---
Accessories	**Part No.**	**Price**
Bucket Seat Bracket 17.25”	15-05066	---
Bucket Seat Bracket 18.5”	15-05067	---
Bucket Seat Cover Only	15-05068	---
Bucket Seat Hardware Bracket Kit	15-05069	---
Bucket Seat Expanding Anchor (Anchor Only)	15-08284	---
Bucket Seat Clamp (Clamp Only)	15-08285	---

HALL BROTHERS VORTEX GENERATORS FOR HOMEBUILTS

These Vortex Generators can be temporarily attached to the wing with tape for testing without harming the wing surface and then moved or attached permanently. This temporary attachment capability allows the pilot to prove out their effectiveness before permanent attachment. The design also gives a generous surface area for bonding.The Vortex Generators are made from .025” 6061-T6 aluminum for maximum durability. Hall Brothers Vortex Generators are not just used for lowering the stall speed. The stall characteristics are normally improved as well as aileron response. Some pilots have reported an increase in the rate of climb of their airplane. Many pilots say that the overall “feel” and handling of their airplane has improved throughout its speed range. The Hall Brothers Vortex Generator Kit includes enough Vortex Generators for a typical homebuilt wing (46 pairs) and stabilizer (16 pairs), tape for temporary attachment, adhesive for permanent attachment and instructions.

P/N 05-01480. ..... ---

STOLSPEED VORTEX GENERATORS

Stolspeed VGs are streamlined for less drag and better appearance than other VGs. Stolspeed VGs have no sharp points and are flexible, so it’s easier to wash or cover the wings. The special 3M adhesive is removable without damaging aircraft paint. Stolspeed VGs have a very slim rounded fin to give them good flexibility, and a rounded, tapered base that ‘flows’ into the wing surface. In clear material they’re almost invisible.

80 (Enough for the tail).....P/N 05-04458 ..... ---
120 (Enough for the main wing plus spares)...P/N 05-04457 ..... ---

AIR WAVE VORTEX GENERATOR

As air normally flows over the wing of an aircraft in flight, the air “sticks” to the surface of the wing. This adherence to the wing’s surface produces lift. If the airflow loses its adherence and separates from the wing, aircraft performance can suffer in the form of increased drag, loss of lift and higher fuel consumption. The kit contains 100pcs which is enough to do the wings. They are made from a durable poly carbonate clear material with UV protective additive. The kit comes with the instructions of where and how to attach them. The only other thing you will need is the glue.

P/N 05-04662 ..... ---

HOERNER DESIGN WING TIPS

These wing tips are constructed of hand laid-up fiberglass which is extremely strong, has great impact strength, and is resistant to chemicals. The Hoerner design of these wing tips reduce the vortex that emanates from the trailing edge of the wing tip thereby reducing drag on the aircraft, leaving more energy available for lift and speed. Stall speed is decreased and lateral stability is improved. You will see increased cruise speed, more positive aileron control, increased rate of climb, decreased take-off distance, and improved appearance with these tips. All STC and approval data is furnished.

CHEROKEE STRAIGHT WING TIPS

PA-28 140 thru 200R models.
P/N 05-90000 ..... **--- pr.**

CHEROKEE TAPER WING TIPS

PA-28 151 thru 236 models
P/N 05-91000 ..... **--- pr.**

CESSNA WING TIPS

140A, 150, 170B, 172, 175, 180, 182,185,210 (pre 1974 models only)
P/N 05-94000 ..... **--- pr.**

COMANCHE WING TIPS

All singles and PA-30 twins.
P/N 05-92000 ..... **--- pr.**

CHEROKEE DORSAL FIN FORWARD

PA-28/PA-32
P/N 05-93000 ..... **--- pr.**

BONANZA WING TIPS

35 series thru P models
P/N 05-95000 ..... **--- pr.**

Other Products:		
Description	**Part No.**	**Price**
Cherokee Dorsal Fin Forward	05-93000	---
Cherokee Dorsal Fin Aft.	05-02602	---
Cherokee Tail Cone Upper	05-02603	---
Cherokee Tail Cone Lower	05-02604	---
Cessna 172-206 Left Wing Tip	05-12917	---
Cessna 172-206 Right Wing Tip	05-12918	---

WHEEL PANT COVERS

Stop tow-bar wheel pant scuffing. & Avoid costly wheel pant repainting. Available in standard black, navy or burgundy. Fits models: Cessna 172 I 182 I 206 Cherokee
- Made from heavy-duty vinyl
- Padded backing
- Attaches quickly using Velcro(tm)
- Stores easily
- Personalization available

Navy .....P/N 05-03048 ..... ---
Black.....P/N 05-03049 ..... ---
Burgundy .....P/N 05-03050 ..... ---
Red .....P/N 05-22091 ..... ---

FIBERGLASS WING BOLT COVERS

Fiberglass Wing Bolt Covers. Piper PA-28 / PA-32 / PA-34 / PA-44 Models. FAA-PMA Approved.

Description	Part No.	Price
GF63942-00 Wing Bolt Cover, Left	05-15278	---
GF63942-01 Wing Bolt Cover, Right	05-15279	---

AP

FIBERGLASS COMPONENTS

AP

NOSE COWLS

All parts are aircraft quality, hand layed for uniform thickness and light weight. Items are finished with white primer gel coat.
Note: Light fill and sanding is required for smooth ready to paint surface. A finishing service is available as an option at checkout that will leave a primer smooth surface.

MC-3A NOSE COWL

Suitable for just about any Lycoming powered aircraft, this cowl comes equipped with a bump that conceals the starter motor. It is the standard Pitts Special cowl but has been installed on these aircraft: Mong, Miniplane, Playboy, Emeraude, Playmate, Baby Ace, Junior Ace, EAA Bipe, Baby Great Lakes, Skyhopper and the Falconar F-11 & 12 series. Measures 35-1/2" wide and 22-1/2" high. Center opening 8-1/ 2" dia.
P/N 05-01183 ..... ---

MC-3B NOSE COWL

Same shape and size as used on the Piper PA-14. Can be used on the same aircraft as listed for the MC-3A design. For builders not wishing to use an electrical system and is seen on most Pitts Specials built for competitive aerobatics. 35" wide x 21" high. Center opening 9-1/4" dia.
P/N 05-01184 ..... ---

MC-3C NOSE COWL

Identical to the MC-3B, but, has an opening for an oil cooler. Measures 35" wide by 21" high. .....P/N 05-01186 ..... ---

MC-4 NOSE COWL

This nose cowl was designed for the T-18 pressure cowl system. A 4-inch prop extension is required and it is generally used with the MC-5 Bottom Cowl. Measures 36" wide by 20"high. Face of center opening 12-5/8" O.D .....P/N 05-00551 ..... ---

MC-7 NOSE COWL

Originally made for the Thorp T-18, this cowl has been used on several other types. The starter ring is enclosed when used with the Lycoming. Makes a nice front end on the CA-61 & CA-65. Measures 35"W by 19.5" high. Face of center opening 13-1/2" O.D.
P/N 05-01176 .....

BUCKET SEATS

For Starduster or Skybolt. Flat Gray finish, 18" wide. Can be upholstered or used plain. Contoured bottom for parachute. These are not chopped glass seats. Hand layed up for extreme lightness. Wt. 3 lbs. 10 oz.
Note: This oversized item ships in a 21 x 21 x 21 box with a dimensional weight of 48 lbs. (56 lbs internationally)
P/N 05-22600 ..... ---

Top

Bottom

FLUSH LATCH

The H-5000-2 style latch is a unique spring-loaded, trigger action latch for cowling and access doors. Made of corrosion resistant steel. Rivet or spot weld to structure. Bolt Offset: .132. Trigger Offset: .102. Max. Depth: 1.23
H-5000-2...P/N 05-11830 ..... ---

WHEEL FAIRINGS

All wheel fairings furnished with reinforcing bulkheads for added stability and cleanliness. **Note**: Light fill and sanding is required for smooth ready to paint surface. A finishing service is available as an option at checkout that will leave a primer smooth surface.

MF-3 - 5:00 X 5 with the long, narrow profile. A standard on Pitts Specials, Acro Sport, T-I 8, Cassutt & Midget Mustang. Truly a universal shape. • Overall size: 39"l x 7.5"w • Opening Size:4-3/4"W x 101/2"L
P/N 05-01217 ..... **--- Pr.**

MF-4 - 5:00 X 5 Thorp T-18 fairing. This style was one of our original developments specifically for the T-18 and has proven to be very popular. Like all other listed pants, it will fit any wheel this size. • Overall size: 31.5"L x 7-1/2"w • Opening Size:14.75"wx 7"L
P/N 05-01218 ..... **--- Pr.**

MF-8 - 5:00 X 5 pant. Almost the same dimension as the MF-3 however, has more of a point on the tip. Also popular on the Pitts, Cassutt, T-18 and Midget Mustang.
Overall size: 37-1/2"L x 8"W
Opening Size: 14-3/4"W x 6"L
P/N 05-01222 ..... **--- Pr.**

MF-10 - 7:00 X 6. For aircraft using the larger wheels and also for the Stinson or Funk. Much lighter than the factory originals.
Overall size: 31"L x 11"W
Opening Size: 19"L x 10"W
P/N 05-01224 ..... **--- Pr.**

MF-11 - 6:00 X 6 wheel fairings. Same size and shape as used on the Tripacer, Pacer or Colt. More streamlined design than the MF-9. A nice installation on the Super Cub w/ 8.00 x 4 wheels.
Overall size: 43"L x 9-1/2"w Opening Size: 9.5"w x 18.5"L .....P/N 05-01225 ..... **--- Pr.**

DZUS COWL LATCHES

These Dzus "over the center" type latches are used extensively on cowl doors and other applications on aircraft such as Cessna, Piper, Grumman, and many homebuilts. Available in 2 styles as shown.

MODEL #1

These Dzus over the center type latches are used extensively on cowl doors and other applications on aircraft such as Cessna, Piper, Grumman, and many homebuilts.
Model I latch: This latch provides 700 lbs. Ultimate strength and 100 lbs. Working strength. Pull up ability is 0.6 inch. Mounting holes will accept .156 in. diameter rivets or #6 round head screws. Order strikes separately.

Description Dimensions (closed)	Part No.	Price Ea.
Cowl Latch Model I	05-01187	---
Latch Strike C8	05-01188	---
Latch Strike C7	05-01189	---

MODEL #2

These Dzus over the center type latches are used extensively on cowl doors and other applications on aircraft such as Cessna, Piper, Grumman, and many homebuilts. Model II latch: This latch provides 220 lbs. of ultimate strength and 45 lbs. of working strength. Pull up ability is .2 inch. Mounting holes will accept .156 in. diameter rivets or #6 round head screws. Order strikes separately. Cowl latch will ship in either clear zinc, or Cad plated. Cowl latch will ship in either clear zinc, or Cad plated.

Description Dimensions (closed)	Part No.	Price Ea.
Cowl Latch Model II	05-01190	---
Latch Strike C9	05-04183	---
Latch Strike C2	05-04184	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

F. ATLEE DODGE REPLACEMENT PARTS

F. Atlee Dodge has been providing quality aviation services since 1957, known for modifications to Super Cubs and many other types of aircraft, along with supplying a wide selection of general aviation aircraft parts. Products such as: Engine Cowlings, Exhaust Systems, Heaters, Folding Seats, Long Range Fuel Tanks, Float Fittings, Skis & Ski Rigging Parts, Enclosed Baggage Compartments, Shoulder Harnesses & Attach Mounts, Custom Steps & Stainless Steel Handles, Super Cub Landing Gear Components, Super Cub Tailfeathers, Standard & oversize, and External Load Modification. It is emphasize that some of these products are intended to provide components primarily for non-certificated/experimental aircraft, and other possible non-aviation uses. Just because it fits doesn't make it appropriate for aircraft, please be sure to check with the FAA if using outside the parameters of experimental aircraft. **When requesting STC Documents an additional charge may apply. STC Documents must be requested at time of order and may not be cancelled or returned.**

A/C Type	Description	FAA PMA	STC	OEM Part No.	Part No.	Price
150	RH Riser	N	N	K0450400-74	05-07851	---
170, 180, 185, 206	Water Rudder - Lift Handle	N	N	3359-1	05-07797	---
180HP	Fuel Caps	N	N	3267-180	05-03458	---
28R-180	Right Front Riser	Y		K67619-00	05-07915	---
32-300	Right Center Stack			K38137-06	05-07942	---
C-170	Ski Attach Kit Cessna	N	N	3168-170	05-07738	---
C-170, C-180, C-185	Step Kit Replacement - Side Cowl	N	N	3354-S	05-07756	---
C-170, C-180, C-185	Step Kit Replacement - Handle	N	N	3354-H	05-07757	---
C-170, C-180, C-185	Step Powder Coated White	Y	N	8013-01	05-07754	---
C-170, C-182, C-185	V-Brace - CUSTOM FABRICATED	N	N	N/A	05-07789	---
C-180	V-Brace	Y	Y	180-VBE	05-07788	---
C-180, C-185	Shroud - Muffler	Y	N	4236	05-03478	---
C180-C185	Muffler - Seaplane Extended	Y	N	AD750161-89	05-07686	---
C-185	Collectors	N	N	CES0002	05-07552	---
C-185	Collector HD	N	N	CES0003(HD)	05-07553	---
C-185	Ski Attach Kit Cessna	N	N	3168-206	05-07741	---
C-185	Step Kit Replacement - Strut	N	N	3354-13.5	05-07761	---
C-206	Exhaust Deflector	Y	Y	3238	05-07568	---
C-206	Ladder - Boarding	Y	Y	3193	05-07652	---
C-206	Ski Attach Kit Cessna	N	N	3168-185	05-07742	---
C-206	Tail Pipe Deflector	Y	Y	3238	05-07786	---
C-206	Tailpipe - Landplane	N	N	LH = AD1250256-7	05-07779	---
C-206	Tailpipe - Landplane	N	N	RH = AD1250264-6	05-07781	---
C-206	Tailpipe - Seaplane	N	N	LH = AD1242013-1	05-07782	---
C-206	Tailpipe - Seaplane	N	N	RH = AD1242013-2	05-07783	---
C-206, C-207	Muffler - 206 Heavy Duty, LH	Y	N	AD1250250-5	05-07679	---
C-206, C-207	Muffler - 206 Heavy Duty, RH	Y	N	AD1250251-16	05-07681	---
C-206, C-207	Shroud - Muffler, LH, HD	N	N	AD125250-6	05-07731	---
C-206, C-207	V-Brace	Y	N	AD1242001-18	05-07787	---
C-207	Tailpipe	N	N	LH = AD1254004-3	05-07777	---
C-207	Tailpipe	N	N	RH = AD1254004-4	05-07778	---
C-208	Seat Removal Tool	N	N	208-SRT	05-07723	---
C-208	Seat Track Tie Downs	Y	Y	TDC-208	05-07724	---
Cessna	Battery Rack Firewall	Y	Y	8008-01	05-03460	---
Cessna	Clamp - Exhaust 206	Y	N	AD1250259-1	05-07539	---
Cessna	Door Hinge Pins - Large Dia 1/8	N	N	AD0711038-1	05-07563	---
Cessna	Door Hinge Pins - Small Dia 3/32	N	N	AD0711001-59	05-07562	---
Citabria/Bellanca	Rear stack	N	N	7-1299	05-07947	---
DHC-2	Beaver Floor Tie Down Attach	Y	Y	3181	05-07511	---
DHC-2	Beaver Strut Assy Door Post	Y	Y	3309	05-07509	---
DHC-2	Front Fuselage Strut Assy	Y	Y	3309	05-07509	---
DHC-2	Gasket - Sending Unit	N	N	N/A	05-07612	---
DHC-2	Seat - Center Row Folding Seat	Y	Y	3180	05-07719	---
DHC-2	Seat Belt Tie Down	Y	Y	3181	05-07511	---
EDO 2000	Float Pulleys	N	N	N/A	05-07598	---
EDO 89-2000	Water Rudder - Pickup Handle	Y	N	3359-2	05-07798	---
J3	Muffler			K71053-02	05-07881	---
J-3 thru PA-18	Shoulder Harness Attach Bracket - Front	Y	N	3232-1	05-07728	---
J-3 thru PA-18	Shoulder Harness Attach Bracket - Rear	Y	N	3232-2	05-07729	---
J-3 thru PA-18	Stick Covers	N	N	3343	05-07767	---
J-3 thru PA-18	Stringers, Large or Small	N	N	1232-162	05-07768	---
J3 thru PA-19	Step Main Landing Gear - Long	Y	Y	3195	05-03461	---
J3 thru PA-22	Fuel Caps - VENTED	Y	Y	3267	05-03459	---
J3 thru PA-22	Remote Compass Mount Bracket	Y	Y	1033	05-07694	---
J3 thru PA-22	Step Refueling	Y	Y	3190-10	05-07762	---
J3 thru PA-22	Step Refueling	Y	Y	3190-11	05-07764	---

F. ATLEE DODGE REPLACEMENT PARTS

A/C Type	Description	FAA PMA	STC	OEM Part No.	Part No.	Price
J3 thru PA-22	Step Refueling	Y	Y	3190-12	05-03462	---
J-3 thru PA-22	Tail Handles - Weld On	N	N	J20652-000	05-07502	---
J-3, PA-11, -18	Water Rudder - Pickup Tubes	N	N	3359-6	05-07803	---
J3, PA-11, -18, -19	Main Landing Gear - 1 1/4" Std RH or LH	Y	N	3225-1, -2	05-07661	---
J-3, PA-11, -18, -19	Safety Cables MLG - STD	Y	Y	2089-18	05-03463	---
PA-11 thru -18	Seat Belt Attach Kit Front	Y	Y	3246	05-07716	---
PA-12	Boot Cowling Assy	N	N	12-BC	05-07516	---
PA-12	Bracket - Lift Strut Reinforcing	Y	Y	3192-12	05-07518	---
PA-12	Defroster Kit	N	N	3242-12	05-07558	---
PA-12	Firewall - Titanium	N	N	12-TFW	05-07592	---
PA-12	Float Fittings - Weld On	Y	Y	3143-12	05-03476	---
PA-12	Instrument Panel	N	Y	1034	05-07642	---
PA-12	Muffler - PA-12 under repair station	N	N	AD10308-002	05-07682	---
PA-12 STC ONLY	X Brace Top Deck - SA02379AK	N	Y	8031	05-07812	---
PA-12, -14	Cabane	Y	Y	3166-2	05-07523	---
PA-12, -14	Cabane Attach Fittings - Weld On	N	N	3166-2AF	05-07526	---
PA-12, -14	Fuel Tank 30.5 Gal RH w/ Kit	Y	Y	3140-516	05-07608	---
PA-12, -14	Fuel Tank 30.5 Gal LH w/ Kit	Y	Y	3140-516	05-11160	---
PA-12, -14	Muffler - Hot Rod, PA-12	N	Y	AD10308-HR	05-07683	---
PA-12, -14	Safety Cables MLG - 3X	Y	Y	3344-12	05-03466	---
PA-12, -14	Safety Cables MLG - STD	Y	Y	2089-12	05-03465	---
PA-12, -14	Tailbrace Beef Up	N	N	1022-12	05-07773	---
PA-12, -14, -18	Shock Strut- 3" EXT	Y	Y	3164-3, -4	05-07658	---
PA-12, -14, -18	Shock Strut- STD	Y	Y	3164-1, -2	05-07657	---
PA-12, -18	Aircraft Tie Down Loop	Y	N	3218	05-07499	---
PA-12, -18	Lumber Rack	N	N	12-LR, 18-LR	05-07656	---
PA-12, -18	Shock Strut- 6" EXT	N	N	3164-5, -6	05-07659	---
PA-14	Instrument Panel	N	N	1034-2	05-07644	---
PA-18	Aircraft Tie Down Bracket	Y	Y	3197	05-07498	---
PA-18	Baggage - Extended	Y	Y	2103	05-07503	---
PA-18	Battery Rack Front Seat	Y	Y	3304	05-04766	---
PA-18	Battery Strap	Y	N	3278	05-07507	---
PA-18	Blank Panel	N	N	1034-B	05-07646	---
PA-18	Boot Cowling Assy	N	N	18-BC	05-07514	---
PA-18	Bracket - Lift Strut Reinforcing	Y	Y	3192-18	05-07519	---
PA-18	Brake Reinforcing Channel	Y	N	4231	05-07521	---
PA-18	Cabane	Y	Y	3166-1	05-07524	---
PA-18	Cables Push Pull	Y	N	3310	05-07528	---
PA-18	Carb Heat Box	N	N	AD15005-00	05-07529	---
PA-18	Cargo Nets	N	N	3234	05-07531	---
PA-18	Channels - Cowling Lower	Y	N	3277	05-07536	---
PA-18	Channels - Cowling Upper	Y	N	3276	05-07537	---
PA-18	Defroster Kit	N	N	3242-18	05-07559	---
PA-18	Fairings	Y	N	AD12274-00	05-07572	---
PA-18	Fairings	Y	N	AD12274-02	05-07573	---
PA-18	Fairings	Y	N	AD12275-00	05-07574	---
PA-18	Fairings	Y	N	AD12275-01	05-07576	---
PA-18	Fairings	Y	N	AD11523-00	05-07577	---
PA-18	Fairings	Y	N	AD12276-00	05-07579	---
PA-18	Fairings	Y	N	AD12276-01	05-07581	---
PA-18	Fairings	Y	N	AD11719-00	05-07582	---
PA-18	Fairings	Y	N	AD11719-01	05-07583	---
PA-18	Filler Neck Repair Kit	N	N	3140-60R	05-07587	---
PA-18	Firewall - SS	Y	N	8007-01	05-07588	---
PA-18	Firewall - Titanium	Y	N	8007-02	05-07591	---
PA-18	Fuel Tank 30.5 Gal LH w/ Kit	Y	Y	3140-L	05-07609	---
PA-18	Fuel Tank 30.5 Gal RH w/ Kit	Y	Y	3140-R	05-11161	---
PA-18	Headliner	N	N	18-HL	05-07622	---
PA-18	Hydrasorb units	N	N	12998-S	05-07627	---
PA-18	Instrument Panel - w/ Insert	N	Y	1034-1	05-07643	---
PA-18	Interior Paneling - LH Center	N	N	12308-05	05-07629	---
PA-18	Interior Paneling - LH Front, FWD	N	N	10776-02	05-07628	---
PA-18	Interior Paneling - LH Rear	N	N	12444-00	05-07631	---
PA-18	Interior Paneling - RH Center	N	N	10930-00	05-07633	---
PA-18	Interior Paneling - RH Front	N	N	12311-00	05-07632	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

A/C Type	Description	FAA PMA	STC	OEM Part No.	Part No.	Price
PA-18	Interior Paneling - RH Rear	N	N	12445-00	05-07634	---
PA-18	Interior Paneling - Throttle Panel FWD	N	N	12309-00	05-07636	---
PA-18	Interior Paneling - Throttle Panel Rear	N	N	12314-00	05-07637	---
PA-18	Interior Paneling - Upper Wing RH	N	N	12618-00	05-07638	---
PA-18	Interior Paneling -Upper Wing Butt LH	N	N	12617-03	05-07639	---
PA-18	Knobs - Mixture	Y	N	3312-1	05-07651	---
PA-18	Lifting Eyes	N	N	3217	05-07654	---
PA-18	Main Landing Gear - 1 1/2" 3" Ext RH or LH	Y	Y	3284-1A, -2A	05-07664	---
PA-18	Main Landing Gear - 1 1/2" Std RH or LH	Y	Y	3225-A1, -A2	05-07662	---
PA-18	Mount - Oil Cooler LH	Y	Y	6018	05-07674	---
PA-18	Mount - Oil Cooler RH	Y	Y	6003	05-07673	---
PA-18	Muffler - Hot Rod, PA-18	Y	Y	3241-HR	05-07684	---
PA-18	Muffler - STD - Heavy Duty	Y	Y	3241	05-03425	---
PA-18	Rear Seat Cross Bar	Y	Y	3146	05-07692	---
PA-18	Rear Seat Heater w/ Hose	Y	Y	3175	05-07693	---
PA-18	Safari Seat	Y	Y	6151	05-07701	---
PA-18	Safety Cables MLG - 3X, WIDE BODY	N	N	3344-18-4W	05-07708	---
PA-18	Safety Cables MLG - 3X	Y	Y	3344-18	05-03464	---
PA-18	Seat - Folding Front Kit	Y	Y	3186	05-03474	---
PA-18	SEAT BOTTOM - FOLDING	N	N	3186-SBL	05-07718	---
PA-18	Shroud - Muffler, 2 Piece	Y	Y	3236	05-03456	---
PA-18	Shroud - Pre-Heat, 2 Piece	Y	Y	3182	05-03457	---
PA-18	Sight Gage 30.5	Y	Y	3286-1	05-07737	---
PA-18	Ski Spring - Gold	Y	Y	2127	05-07746	---
PA-18	Ski Springs - Silver	Y	Y	2097	05-07747	---
PA-18	Strobe Light Mounting Bracket	Y	Y	2087	05-07769	---
PA-18	Water Rudder Tiller	N	N	PP1023	05-07801	---
PA-18	Winter Front	N	N	WINTER FRONT	05-07809	---
PA-18 STC ONLY	X Brace Top Deck - SA2011AK	N	Y	3261	05-07813	---
PA-18, -19	Header Tanks - Front	Y	Y	3169-1	05-07619	---
PA-18, -19	Header Tanks - Rear	Y	Y	3169-2	05-03469	---
PA-18, -19	Tailbrace Beef Up	N	N	1022-18	05-07774	---
PA-18-150	Dome - Carb Air Filter	Y	N	3281	05-07561	---
PA-22	Fuel Tank 30.5 Gal LH w/ Kit	Y	Y	3258	05-11162	---
PA-22	Fuel Tank 30.5 Gal RH w/ Kit	Y	Y	3258	05-07611	---
Piper	Cabin Heater Box	N	N	18-CHB	05-07527	---
Piper	Seat Track Tie Downs	Y	N	TDP-31	05-07727	---
Piper & Husky MLG	Axe - Survival	N	N	AD-18-SA	05-07502	---
PA-12 and PA-18	6X Safety Cable Kits / Built to Order	N	N	3344-12-6X	05-07709	---
PA-12 and PA-18	6X Safety Cable Kits / Built to Order	N	N	3344-18-6X	05-07711	---
---	Axel Adapter, Pair	N	N	2079	05-07501	---
---	Belly Pan Clean Out Kit	Y	N	3285	05-07513	---
---	Cargo Tie Down Bases	N	N	40000-11	05-07532	---
---	Cargo Tie Down Hooks - Weld On 4130N	N	N	3234-10	05-07534	---
---	Cargo Tie Down Rings	N	N	40340-20	05-07533	---
---	Float Pulley w/ Brackets	N	N		05-07599	---
---	FUEL CAP KEEPER w/o CAP	N	N	3267-KPR	05-07607	---
---	Gaskets - Gas Cap	N	N	4050	05-07616	---
---	GUST LOCKS	N	N	AD18-GL	05-07618	---
---	Heat Shield Engine Mount	N	N	3274-8, -10, -12	05-07624	---
---	Husky Gear	Y	N	AD45017, - 501HD, -502HD	05-07626	---
---	Knobs - Push Pull (Plain)	N	N	3311	05-07649	---
---	Reservoir - for Hydraulic Skis	N	N	2080-S1, -H1, -L1	05-07696	---
---	Rigging - w/ Springs	N	N	2609-S	05-07697	---
---	Rigging - w/o Springs	N	N	2609-X	05-07698	---
---	Ski / Brake Keepers	N	N	2609-BK	05-07743	---
---	Ski Plates	N	N	VA1013	05-07751	---
---	Ski Selector Valve	N	N	2609-SV	05-07744	---
---	Ski Washers	N	N	VA1016	05-07752	---
---	Washer - Axle	N	N	N/A	05-07791	---
---	Ski Selector Valve	N	N	2609-SV	05-07744	---
---	Ski Washers	N	N	VA1016	05-07752	---
---	Washer - Axle	N	N	N/A	05-07791	---

PMA PRODUCTS REPLACEMENT PARTS

PMA Products, Inc.

For more than 15 years PMA Products, Inc. has been the reliable, affordable alternative for the highest quality FAA/PMA approved parts for Piper, Beech, Cessna, Embraer, and Pratt & Whitney. In 2006 PMA Products, Inc. received the Leadership Award from MARPA, the Modification & Replacement Parts Association. Aircraft Spruce is proud to offer more than 200 PMA Products Inc. parts to the general aviation community.

Oem	Description	Oem Part No.	*Spruce Part No.*	Price
Beech / Cessna	Fuel Cap Seal	38241	05-07332	---
Embraer	Back Up Ring	Bds3115-026c	05-07493	---
Lear	Bushing	2341120-1	05-07307	---
Marvel Sc	Gasket, Fuel Screen	16-a48	08-06629	---
Mccauley	Carbon Block	B5121	05-07492	---
Mooney	Transducer, Fuel Press.	3060-00017	05-07318	---
	Transducer, Oil Press.	3060-00018	05-07319	---
	Transducer, Fuel Press.	880007-501	05-07463	---
Piper	Bushing, Landing Gear	14843-016	05-07289	---
	Bushing, Landing Gear	14843-018	05-07291	---
	Bushing, Steering	14976-102	05-07292	---
	Cap, Fuel	17672-000	05-07299	---
	Bushing, Gear Housing	20737-023	05-07301	---
	Bushing, Nose Gear Idler	20737-032	05-07302	---
	Bushing	20737-040	05-07303	---
	Bushings, Door Mech.	20737-044	05-07304	---
	Fastener	26246-000	05-07309	---
	Cap, Fuel	27221-000	05-07311	---
	Axle, Nose Wheel	31797-000	05-07327	---
	Bulkhead	35323-012	05-07328	---
	Hinge, Aileron	35636-000	05-07331	---
	Bushing, Nose Gear Housing	40250-002	05-07333	---
	Bushing, Flap Roller	41413-005	05-07334	---
	Bushing, Seat Roller	41413-038	05-07336	---
	Bushing, Door Mech.	41413-041	05-07337	---
	Bushing, Main Gear Fork	43256-002	05-07339	---
	Bushing, Main Gear Housing	43256-005	05-07341	---
	Bushing, Nose Gear Housing	43256-006	05-07342	---
	Stall Switch Assembly	450-742	05-07344	---
	Bearing, Rod End	452-334	05-07346	---
	Bearing, Rod End	452-335	05-07347	---
	Bearing, Rod End	452-336	05-07348	---
	Bearing, Rod End	452-368	05-07349	---
	Bearing, Flap	452-387	05-07351	---
	Bearing, Stabilator	452-394	05-07352	---
	Bearing, Rod End	452-412	05-07353	---
	Bearing, Rod End	452-439	05-07354	---
	Bearing, Stabilator	452-538	05-07356	---
	Bearing, Landing Gear	452-575	05-07357	---

Oem	Description	Oem Part No.	*Spruce Part No.*	Price
Piper Cont'd	Bearing, Aileron	452-584	05-07358	---
	Bearing, Rod End	452-860	05-07359	---
	Bushing	453-903	05-07361	---
	Static Discharger	456-802	05-07362	---
	Universal	46203-002	05-07366	---
	Pitot Heater Element	464-356	05-07367	---
	Pitot Heater Element	464-357	05-07368	---
	Pitot Heater Element	464-440	05-07369	---
	Pitot Heater Element	464-441	05-07371	---
	Quad Ring	484-769	05-07374	---
	Quad Ring	484-770	05-07377	---
	Ring Scraper	486-188	05-07378	---
	Transducer, Fuel Press.	486-439	05-07379	---
	Transducer, Oil Press.	486-440	05-07381	---
	Bulkhead	587-330	05-07393	---
	Hinge Pin	62002-002	05-07396	---
	Hinge Pin	62002-003	05-07397	---
	Hinge Pin	62002-004	05-07398	---
	Hinge, Aileron	62371-008	05-07399	---
	Bushing, Torque Link	63310-000	05-07402	---
	Barrel, Trim	63530-000	05-07403	---
	Hinge, Tab	63560-002	05-07404	---
	Hinge, Tab	63560-003	05-07406	---
	Capacitor, Alternator	63897-006	05-07407	---
	Bushing, Flap Hinge	63900-019	05-07408	---
	Bushing, Landing Gear	63900-089	05-07409	---
	Bushing, Nose Gear	63900-109	05-07411	---
	Bushing, Nose Gear	63900-122	05-07412	---
	Bushing, Main Gear	65003-041	05-07413	---
	Bushing, Main Gear	65003-044	05-07414	---
	Bushing Nse. Gr. Drag Brce.	65003-045	05-07416	---
	Bushing, Nose Gear	65003-046	05-07417	---
	Shaft, Trim	65246-000	05-07422	---
	Shaft, Trim	65246-002	05-07423	---
	Tube, Nose Strut	65280-000	05-07424	---
	Fuel Pump	65628-800	05-07426	---
	Gasket, Fuel Cap	66815-000	05-07427	---
	Bushing, Torque Link	67026-007	05-07428	---
	Bearing	67026-011	05-07429	---
	Bushing, Main Gear	67026-012	05-07431	---
	Switch, Landing Gear	67411-002	05-07432	---
	Switch, Landing Gear	67411-003	05-07433	---
	Switch, Landing Gear	67411-004	05-07434	---
	Switch, Landing Gear	67411-005	05-07436	---
	Switch, Landing Gear	67411-006	05-07437	---

Oem	Description	Oem Part No.	*Spruce Part No.*	
Piper Cont'd	Switch, Landing Gear	67411-007	05-07438	---
	Switch, Landing Gear	67411-008	05-07439	---
	Switch, Landing Gear	67411-020	05-07441	---
	Switch, Landing Gear	67411-021	05-07442	---
	Down Limit Switch	95232-000	05-10891	---
	Bushing, Teflon	69790-000	05-07443	---
	Plate, Cowl	69791-000	05-07444	---
	Fitting, Swivel	70371-002	05-07446	---
	Stud Swivel	70371-003	05-07448	---
	Gasket, Fuel Bowl	751-871	05-07451	---
	Bushing, Torque Link	77780-005	05-07452	---
	Strut, Alternator Brace	78483-000	05-07453	---
	Bumper, Nose Gear	79072-000	05-07454	---
	Roller, Flap	86102-104	05-07457	---
	Roller, Flap	86102-105	05-07458	---
	Roller, Flap	86102-106	05-07459	---
	Bulkhead, Spinner	87325-010	05-07461	---
	Roller, Seat	87332-002	05-07462	---
	Bushing, Aileron Hinge	95061-108	05-07469	---
	Bushing, Nose Gear	95061-133	05-07471	---
	Hinge, tab	95864-002	05-07472	---
	Hinge, tab	95866-002	05-07473	---
	Barrel, Trim	96596-002	05-07474	---
Pratt & Whitney	Fuel Transfer Tube	3011155	05-07312	---
	Fuel Transfer Tube	3020030	05-07314	---
	Gasket, Fuel Nozzle	3029566	05-07316	---
	Gasket, Fuel Nozzle	3029678	05-07317	---
	Retainer Plate	3103345-01	05-07321	---
	Diaphragm	3103346-01	05-07322	---
	Diaphragm	3103347-01	05-07323	---
	Shim, Prop Shaft	3110998-01	05-07324	---
	Gasket	3118962-01	05-07326	---
	Gasket, Fuel Nozzle	Ms9371-16	05-07497	---
Raytheon/ Beech	Seat Foot	100-530448-5	05-07239	---
	Seat Foot	100-530448-7	05-07242	---
	Bushing, Nose Gear	100-820017-1	05-07243	---
	Bushing, Landing Gear	101-810014-1	05-07244	---
	Bushing	101-810014-3	05-07246	---
	Bushing, M. Torque Link In Gear	101-810024-3	05-07252	---
	Torque Link Bushing	101-810024-5	05-07253	---
	Pin, Torque Link	101-810025-1	05-07254	---
	Bolt	101-810090-1	05-07257	---
	Bolt	101-810090-3	05-07258	---
	Bolt, Main Gear Drag Brace	101-810145-1	05-07261	---
	Bolt, Main Gear Drag Brace	101-810146-1	05-07262	---
	Door Closure Roller	105739x-yn1437	05-07263	---
	Bushing, N. Torque Link Ctr	105740x-ya0630	05-07264	---
	Bushing	105740x-yd0160	05-07267	---

Oem	Description	Oem Part No.	*Spruce Part No.*	
Raytheon/ Beech Cont'd	Bushing	105740x-yk0563	05-07269	---
	Bushing	105740x-yn0520	05-07271	---
	Bushing, N. Torque Link Center	105740x-yn0625	05-07272	---
	Bushing, Main Drag Link Center	114-810038-1	05-07277	---
	Bushing, Main Drag Link In Gear	114-810042-1	05-07279	---
	Bushing, Main Drag Link In Gear	114-810049-3	05-07281	---
	Bushing, Nose Attach Lug	114-820113-1	05-07282	---
	Steering Roller	114-820062-1	05-07283	---
	Bushing	115-610019	05-07284	---
	Bushing, Main Gear	115-810064-1	05-07286	---
	Bushing	115-810066-3	05-07287	---
	Thrust Washer	115-810074	05-07288	---
	Switch, Stall	151	05-07294	---
	Fuel Cap Seal	457-98	05-07363	---
	Bushing, Torque Link	45-815013	05-07364	---
	Washer	50-105000-3	05-07382	---
	Wiper Blade (refill Only)	50-384082-1	05-07383	---
	Bushing	50-524476-1	05-07384	---
	Bushing	50-524476-3	05-07386	---
	Seat Foot	50-534436-5	05-07387	---
	Bushing, Upper Torque Link	50-810034	05-07388	---
	Main Strut Upper Bearing	50-810326	05-07389	---
	Pin	50-810343-5	05-07391	---
	Pin	50-810343-7	05-07392	---
	Switch, Mic	601-4300	05-07394	---
	Bushing, Ns Torque Link Center	90-810019-1	05-07466	---
	Bushing, Drag Link	90-820010-1	05-07467	---
	Bolt, Nose Gear	90-820011-1	05-07468	---
	Mic Switch	99-340253-1	05-07476	---
	Bushing, Torque Link	99-810060-1	05-07477	---
	Bushing	99-810064-1	05-07478	---
	Bushing	99-810064-3	05-07479	---
	Bushing, Main Drag Link Center	99-810066-1	05-07481	---
	Bearing, Nose Gear	99-820099	05-07482	---
	Yoke	A3025	05-07483	---
	Carbon Block	A3026	05-07484	---
	Carbon Block Assembly	A3044	05-07486	---
	Seal, Drain Valve	Cca1269	05-07494	---
	Seal, Drain Valve	Cca1319	05-07496	---
Saab	Bearing	Air130986	05-07488	---
	Bearing	Air130988	05-07489	---
Various	Filter / Gasket	Various	05-07338	---

CESSNA COWL FLAP RIGHT AND LEFT

These cowl flaps feature a replaceable stainless steel hinge that may be removed and replaced using screws. The specific model applicability for these cowl flaps are the C-180C, D, E, F, G, H, J and 180K; the 182B, C and D; 185, 185A, B,C,D, 185E, A185E and A185F. FAA Approved.

Left.....P/N 05-03393 ..... ---
Right .....P/N 05-03394 ..... ---

HORIZONTAL STABILIZER ADJUSTING SCREW AND BARREL
FOR C-180, 185 AND C-182 THRU C-182D

Screw.....P/N 05-07000 ..... ---
Barrel .....P/N 05-07005 .....

HORIZONTAL STABILIZER ADJUSTING CAM

Cessna Adjusting Cam. - U0712502; Trim screw adjusting cam. FAA/PMA Approved .....P/N 05-07010 ..... ---

STABILIZER TRIM SCREW BOOT
FOR C-180, C-185, AND C-182 THRU C-182D

Boot .....P/N 05-07015 ..... ---

CESSNA 120/140 FUEL VALVE KIT

This valve has a very smooth action with positive detents. Like the original valve, it has positions for left-on, right-on and both-off. Unlike the original, it is not prone to sticking or binding. It does not require periodic seal replacement or lubrication. This PMA'd replacement valve will mount almost identically to the original OEM valve. It uses the same tank selector plate and the same mounting hardware as the original. This valve is sold in a kit that includes the handle and installation instructions. The handle has no "pointer." This is in compliance with AD47-43-02.

P/N 05-03407 ..... ---

C-120, C-140 LIFT STRUT ROD ENDS

Front Rod End.....P/N 05-07020 ..... ---
Rear Rod End.....P/N 05-07025 ..... ---

C-172 OIL DOOR

Applicable on the following models:
(172, 172A, B, C, D, E, F, G, H, I, J, K, L, M, N, P, Q)
P/N 05-07030 ..... ---

C-180, 182, & 185 SERIES COWL OIL DOOR

Applicable on the following models: For 180—180G, 182—182G & 185—185C ...P/N 05-07035 ..... ---

CESSNA AILERON HINGE

For all C-150, 152, 170A, 170B, 172, 180, 182 & 185.
P/N 05-07040 ..... ---

CESSNA 0550321-12 BULKHEAD HALF ASSEMBLY

Specifications: • Part Type: Proprietary • Weight: 0.5 Pounds • Dimensions : 10.8 (L) x 10.05 (W) x 0.7 (H) Inches P/N 05-28986 ..... ---

MCFARLANE CDHP-KT-1 HINGE PIN KIT

McFarlane CDHP-KT-1 Hinges for Cessna 172 & 175 Aircraft. **Features**: • AA-PMA solid welded design • Precision pin holes for longer life • Straight or bent to fit older aircraft • Pre-drilled and epoxy primed • Heat treated where required for extra strength and wear resistance
FAA-PMA approved.....P/N 05-26511 ..... ---

MCFARLANE SHOCK STRUT BEARING

FAA-PMA approved for Cessna aircraft.
P/N 05-27105 ..... ---

CESSNA SWITCH - S1856-1

Cessna Switch - S1856-1 .....P/N 05-27426 ..... ---

C-170 TAILWHEEL SPRINGS

Tailwheel Spring Assembly.... P/N 06-15000 ..... ---
Main Leaf Only..... P/N 06-15100 ..... ---

C-120/140 TAILWHEEL SPRING SETS
(LATER CESSNA SPRING SET SHOWN)

Early 120-140 (single bend, originally on SN 8001-14026)
P/N 05-07055 ..... ---
120-140 (SN 14027 and up).....P/N 06-14800 ..... ---
120-140 main leaf only (SN 8001-14026) ...P/N 05-07065 ..... ---
120-140 main leaf only (SN 14072 & up)....P/N 06-14900 ..... ---

RUDDER BELLCRANK
FOR C-120, 140 & 170

P/N 05-07075 ..... ---

WING FABRIC CLIP
FOR C-120/140/170

P/N 09-19900 ..... ---

RUDDER & ELEVATOR SKINS

Cessna 180, 185, 182-182B FAA-PMA. Sold in pairs only, includes both Right and Left sides.
P/N 05-07090 ..... ---

ALL METAL COWLING PARTS FOR 120-140

1946 Cowling Items
Lower Cowl Skin, Left .....P/N 05-07165 ..... ---
Lower Cowl Skin, Right.....P/N 05-07170 ..... ---
Nose Cowl Only.....P/N 05-07175 ..... ---

C-120/140 COWL GRILLS

FAA/PMA Approved. Also approved for 170, 170A, and170B thru SN 25372.
Cessna 140/170 left hand grill (U0452207)
P/N 05-07180 ..... ---
Cessna 140/170 right hand grill (U0452207-1)
P/N 05-07185 ..... ---

C-120/140 ENGINE MOUNT ASSEMBLY

120-140 .....P/N 05-07190 ..... ---
140A.....P/N 05-07195 ..... ---

CESSNA 182 SERIES OIL DOOR

Applicability: Cessna 182H, 182J, 182L, 182M, 182N, 182P (through serial number 18261425)
• FAA-PMA approved
• Supercedes part numbers 1552004-10 and 0552173-6
P/N 05-04788 ..... ---

EXHAUST CUFF FOR CESSNA 340

The problem • The exhaust pipe creates parasitic drag within the slip stream • Non-laminar flow conditions occur at the opening of the cowl • Aircraft esthetics are affected by the protrusion of the pipe. The exhaust cuff solution eliminates non-laminar airflow about the exhaust port • Reduces cylinder head temperatures • Cruise performance increased • Enhances the esthetics of the aircraft
Cessna Exhaust Cuff 340 .....P/N 05-04475 ..... ---

ROLLER PIN VERNIER

McFarlane 65618 Roller Pin Vernier-Asst Pack of 6
Specifications: Approval: FAA-PMA (Sub-Component of Approved Article).....P/N 05-16289-6 ..... ---

CESSNA TRIM WHEEL KIT

Trim wheels for Cessna 180 and 185. Newly designed sprocket is already fastened to the trim wheel, taking the load off the shaft and roll pins! Hardware and roll pins included. S/N 185-0001 - 185-0949 use Short Shaft.....P/N 05-27279 ..... ---
S/N 185-0950 and on use Long Shaft .....P/N 05-27275 ..... ---

CESSNA SENSOR 9910094-3

Cessna Sensor.....P/N 05-27104 ..... ---

CESSNA ROLLER ASSEMBLY

Cessna Roller Assembly S4628-1487
P/N 06-04180 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

(FAA/PMA APPROVED)

LEVER TYPE WINDOW LATCHES & COMPONENT PARTS

05-07130

05-07145

05-07140

05-07125

Latch Assembly Applicable on: 120, 140, 140A, 170, 170A, 170B, (SN 20267 thru 25372).
P/N 05-07100 ..... ---

W/ High Polish
P/N 05-11449 ..... ---

Latch Assembly Applicable on: 170B (SN 25373 & on), 172, 175, 180 & 182
P/N 05-07105 ..... ---

W/ High Polish
P/N 05-11450 ..... ---

COMPONENT PARTS

Arm (for -2 assy.) (U0413362-8) ..... P/N 05-07110 ..... ---
Arm (for -3 assy.) (U0413362-9) ..... P/N 05-07115 ..... ---
Bracket (U0413362-13) ..... P/N 05-07120 ..... ---
Knob (U0413359) ..... P/N 05-07125 ..... ---
Extension Arm (U0413362-12) ..... P/N 05-07130 ..... ---
Angle (left side) (U0413362-10) ..... P/N 05-07135 ..... ---
Angle (right side) (U0413362-11) ..... P/N 05-07140 ..... ---
Pin (U0413362-14) ..... P/N 05-07145 ..... ---
Pin (U0413362-16) ..... P/N 05-07150 ..... ---
Pin (U0413362-15) ..... P/N 05-07155 ..... ---
Spacer (U0413362-7) ..... P/N 05-07160 ..... ---
Washer (2 req'd) ..... P/N AN960-10 ..... ---
Washer (2 req'd) ..... P/N AN960-10L ..... ---

CABIN ENTRY STEP FOR CESSNA AIRCRAFT

Cabin Entry Step for Cessna Aircraft. Applicable to:

- 170, 170A, B - 18000 thru 27169
- 180,180A,B,C,D,E,F-30000thru18051312
- 185, 185A, B, C, D, E, A185E* - 1850001 thru 1851300
- Partial model eligibility

Left Cabin Access ..... P/N 05-04176 ..... ---
Right Cabin Access ..... P/N 05-04177 ..... ---

COWL LATCHES AND DETAILS
FOR 120-140 AND 170 SERIES

1

2

HOOK & LEVER ASSEMBLIES

1) Hook Assembly ..... P/N 05-07200 ..... ---
2) Lever Assembly ..... P/N 05-07205 ..... ---

3 4 5 6 7

8 9 10 11 12 13

DETAIL PARTS

3) Recess ..... P/N 05-07210 ..... ---
4) Lever ..... P/N 05-07215 ..... ---
5) Clip ..... P/N 05-07220 ..... ---
6) Pin ..... P/N 05-07225 ..... ---
7) Housing ..... P/N 05-07230 ..... ---
8) Hook ..... P/N 05-07235 ..... ---
9) Spring ..... P/N 05-07240 ..... ---
10) Pin ..... P/N 05-07245 ..... ---
11) Shim ..... P/N 05-07250 ..... ---
12) Recess ..... P/N 05-07255 ..... ---
13) Hook ..... P/N 05-07260 ..... ---

CESSNA SPINNERS

05-07275 05-09030

NOTE: Cessna 172 Spinner Dome P/N 05-09045 will not work for 1960 Cessna 172A.

Cessna spinner dome for - F, G, H, J, 150 K
P/N 05-09030 ..... ---
Cessna front plate for - 150 F, G, H, J, 150 K
P/N 05-09035 ..... ---
Cessna rear plate for - 150 F, G, H, J, 150 K
P/N 05-09040 ..... ---
Cessna spinner backplate for - early Cessna 170 & 172 for Continental 8 hole flanges ..... P/N 05-07265 ..... ---
Cessna spinner dome for- early Cessna 170 & 172 for Continental 8 hole flanges ..... P/N 05-07270 ..... ---
Cessna spinner kit - early Cessna 170 & 172 for Continental 8 hole flanges ..... P/N 05-07275 ..... ---
Cessna Spinner Kit - 170B S/N: 25373 & Up & 172 S/N:2800 Thru 46754
Cessna dome for - 172 A-F ..... P/N 05-09045 ..... ---
Cessna front plate for - 172 A-F ..... P/N 05-09050 ..... ---
Cessna rear plate for - 172 A-F ..... P/N 05-09055 ..... ---
Cessna dome for - 172 I, K, L, M, N, & P ... P/N 05-07280 ..... ---
Cessna front plate for - 172 I, K, L, M, N, & P ... P/N 05-07285 ..... ---
Cessna rear plate for - 172 I, K, L, M, N, & P .. P/N 05-07290 ..... ---

CESSNA 182 ALUMINUM SPINNERS

These aluminum spinners and spinner support spacers are FAA approved for installation on several models of Cessna 182 series aircraft using McCauley two blade constant speed propellers. The Spinner Dome replaces original Cessna p/n 0752637K200, 0752637-5 and 0752637-11. The Spinner Spacer replaces original Cessna p/n 0752620-1 and 0752620-3. The Spinner Dome is approved on the Cessna 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q and the 182R. The Spinner Support Spacer is approved on Cessna Models 180H, 180J, 180K, A185E, A185F, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 210-5 (205), 210-5A (205A), 206, U206, P206 and the U206A.

Spinner Dome U0752637K200 ..... P/N 05-01901 ..... ---
Spinner Sport Spacer U0752620-3 ..... P/N 05-01902 ..... ---

FLAP TRACK WEAR GAGE

McFarlane Aviation Products has developed a new tool to determine Flap track wear. McFarlane developed this tool to positively indicate when the flap track is worn beyond service limits. Flap Track Wear Gage Use to determine if a Cessna flap track is worn beyond service limits. Flap Track Wear Gage Instructions: Run the gage plug along each slot in each flap track while verifying that the gage will not enter the slot. Reposition the flaps as required to gage the entire length of each slot. If the gage enters a slot at any point the track is worn beyond service limits. The diameter of the gage is .6035 inches (diameter tolerance +.000/-.002)Periodically verify the gage diameter by measuring the age diameter with a calibrated micrometer ..... P/N 05-02145 ..... ---

VENT TUBE ADAPTER BRACKET CESSNA

CW-172001 replacement for Cessna part #0700325-2 adapter assembly. Eligible for installation on Cessna 172, 172A, 172B, 172C, 172E, 172F, 172G, 172H, 172I, 172K, 172L, 172M, 172N, 172P, 172Q.
P/N 05-04645 ..... ---

MCFARLANE SHROUD ASSEMBLY AIRBOX SEALS KITS

Air Filter Shroud Assemblies for Cessna - FAA-PMA approved. McFarlane now has FAA-PMA approval on their improved Cessna Airbox Shroud/Seal Assemblies for various 150, 152 and 172 aircraft! McFarlane Airbox Seal Assemblies for select Cessna aircraft have drastically improved the life of their part using aluminum instead of plastic. McFarlane patented Cowl Saver Material with Bi-Flex is used with the new shroud to prevent cowl damage.

ABS-KT-01 Airbox Seals Kit ..... P/N 05-27127 ..... ---
ABS-KT-02 Airbox Seals Kit ..... P/N 05-27128 ..... ---
ABS-KT-03 Airbox Seals Kit ..... P/N 05-27129 ..... ---

AILERON HINGE FOR CESSNA

FAA – PMA APPROVED AS0523816-1
P/N 05-00048 ..... --- **ea.**

STEERING BUNGEE FOR CESSNA 182 - MC0760622-1

Steering Bungee For Cessna 182E thru 182T, OEM equivalent 0760622-1. Tired of "soft" worn out steering rods? Replace them with these improved steering rods ..... P/N 05-27272 ..... ---

AP

CESSNA PARTS

Aircraft Spruce and Specialty stocks a large inventory of Cessna replacement parts. Some of the most commonly required parts are listed on this page. If you require Cessna parts not listed here, please provide us with the Cessna part numbers and we will provide you with a prompt quotation. All of the parts listed here are authentic Cessna factory parts and all carry our low price guarantee. Please verify that the parts are correct for your Cessna model/year by referring to the applicable Cessna parts manual prior to ordering.

Call for Prices on Unlisted Cessna Parts

Part. No.	Description	Price
S1258-1	Sump	---
SK172-1F	Strut Kit	---
S1093-1	Flap Buttons	---
NAS75-3-009	Bushing	---
NAS77-3-23	Bushing	---
NAS77-8-88	Bushing	---
MS25171-1	Nipple	---
MS25171-2	Nipple	---
C156003-0101	Fuel Cap	---
C592001-0201	Static Wick Certified	---
11-10574	Static Wick Non Certified	---
B100142-1	Fuel Cap Gasket	---
S1991A1	Contactor	---
S2020-2	Drain Valve	---
S2106-4	Drain Valve	---
S2160-1	Switch	---
S2237-3	Seat Belt Bushing	---
S2416-1-31.0	Alt Belt	---
0400213-6	Compass Placards	---
0413613-1-279	Panel Nut	---
0511242-1	Seat Stop	---
1220114-1	Spacer	---
1243030-5	Shim	---
1243030-6	Shim	---
1243030-7	Shim	---
1250860-29214	Clamp	---
1298119-4	Exhaust Spring	---
06-03498	Fastener S2319-1	---
0711021-9	Door Spring for Window	---
1414104-54	Bushing	---
1513174-3	Grey Panel Nut	---
1513174-5	Black Panel Nut	---
0523919	Bushing	---
0523920	Roller	---
0523921	Roller	---
0541139	Plug	---
9910306-1	Westgate Gasket	---
0711001-59	Hinge Pin	---
0713348-1	Stall Horn	---
S2488-1	Stall Horn Reed	---
0756009-8	Gasket	---
0851559-1	Washer	---
0756010-6	Plunger	---
0756011-1	Standpipe	---
S1450-6B14-010	Washer	---
S1597-1-37.5	Belt V	---
B3-5-1	Filter Vac	---
S1921-1	Clamp	---
U10C062-262M	Clamp	---
S2870-1	Switch Press To Test	---
S2091-5	Resistor	---
S339-1	Clip	---
S339-3	Clip	---
111190-8	Ring Scraper	---
S11L-162C	Ring	---
B40012	Brush	---
A2748	Seal	---
A2749	Seal Wiper	---
MS25253-1	Switch	---
1234665-10	Tab	---
S1906-1	Switch	---
S1906-2	Switch	---
S1230-17	Control	---
S1230-19	Control	---
RD0015H1600JBL	Rheostat	---
0441139-6	Shim	---
0541111-2	Shim	---

Part. No.	Description	Price
0441157-2	Shim	---
0441157-1	Shim	---
1250405-1	Nut	---
MS29513-338	O-Ring	---
AN6235-2A	Filter Hyd	---
AN6235-3A	Element	---
1250922-200	Adapter	---
1250922-201	Adapter	---
0750142-1	Gasket	---
0756009-1	Fuel Filter	---
0741623-4	Tread	---
0441157-3	Shim	---
0556010-200	Adapter Ass'y.	---
1232040-5	Boot	---
79C1	Drain Valve	---
S2485-1	Drain Valve	---
P52-0016	Contactor	---
S1579A2	Contactor	---
S1580A1	Contactor	---
S1588-1	Gasket	---
S1588-2	Gasket	---
0750143-2	Deflector	---
0750143-3	Bracket	---
0851559-1	Washer	---
S1915-1	Capacitor	---
S1915-2	Capacitor	---
S1994-1-1	Switch	---
S2334-3	CHT Probe	---
S1258-1	Sump	---
S3010-1	Switch	---
S1104-3	Rod End	---
S1105-4	Rod End	---
C592001-0201	Wick	---
C592001-0203	Wick	---
S1704-1	Roller	---
1714000-22	Washer	---
16165	Wick	---
KM610-64	Latch	---
S11L-161C	Spring	---
S11L-174C	Spring	---
S11K-3A	Seal	---
S11K-4R	Seal	---
3009022	Washer	---
B3-11-1	Gasket	---
S1477-3	Nut	---
S1477-08	Nut Clip	---
NH1000897-30	Clamp	---
NH1000897-40	Clamp	---
NH1000897-50	Clamp	---
NH1000897-60	Coupling	---
DGR3	ACU	---
DGR6	Regulator	---
SK152-25A	Rudder Stop	---
P52-0016	Contactor	---
05-14700	O-Ring	---
390K4E	Alternator Belt	---
0422344	Tie Down Bolt	---
P264-5037-1	Oil Pressure Sender	---
05-22397	Oil Pressure Switch 83278	---
05-22149	R860025 Seal CM 2919-2.50	---
06-03306	Nose Strut Pressure Valve S1827-1	---
06-03307	Pulley S378-4	---
06-03308	Ammeter 53280-1	---
06-03309	Cross Arm 0713020-2	---
06-03310	Cowling Cover 075273-14	---
06-03313	Door Handle	---
06-03314	Switch S3443-1-1	---

Part. No.	Description (cont'd)	Price
06-03315	Toggle Switch S1158-2-1	---
06-03316	Rubber Bushing 0550155	---
06-03317	Recepticle	---
06-03318	Fasteners	---
06-03319	Right Side Retainer	---
06-03322	Bracket	---
06-03325	Spinner Front Plate	---
06-03326	Fastners S3412-105	---
06-03327	Fastners S3412-108	---
06-03328	Textron Fuel Cap 100-381005-15	---
06-03329	Body Assembly JMDX36-001	---
06-03330	Bf Goodrich Aerospace Cleaner (32 Oz)	---
06-03331	Toggle Switch S1160-1-1	---
06-03334	Nose Faring 05436079-15	---

Part. No.	Description	Price
06-03336	Float Switch	---
06-03337	Knob Assembly	---
06-03338	Resistor	---
06-03339	Inserts 182D	---
05-22169	AA1K1-4-8 Fitting	---
05-22889	Bearing S1004-15A	---
06-03534	Terminal S1493-2	---
06-03535	Brackett 0517018-8	---
1552010-1	Spring	---
RG65	Grommet	---
S2800-797	Resistor	---
50-820038	Retainer	---
NAS561P12-48	Roll Pin	---

CESSNA TRIM CONTROL CHAINS

We carry FAA-PMA approved replacement trim control chains for Cessna 120 through 210 series aircraft. Call the Cessna/Piper parts specialist at Aircraft Spruce (1-877-4-SPRUCE) for assistance in determining the correct chain for your aircraft.

Model No.	Part No.	Price Ea.
ASS2294-25	05-00289	---
ASS2295-25-185	05-00291	---
ASS2295-25-249	05-00292	---
ASS2295-25-47	05-00295	---
ASS2295-25-61	05-00296	---
ASS2295-25-63	05-00297	---
ASS2295-25-67	05-00298	---
ASS2295-25-70	05-00299	---
ASS2295-25-71	05-00301	---
ASS2295A25-111	05-00302	---
ASS2295P25-113	05-00303	---
ASS2295P25-155	05-00304	---
ASS2295P25-159	05-00305	---
ASS2295P25-185	05-00306	---
ASS2295P25-321	05-00307	---
ASS2295P25-47	05-00308	---
ASS2295P25-55	05-00309	---
ASS2295P25-59	05-00311	---
ASS2295P25-63	05-00312	---
AS2295P25-67	05-00313	---
ASS2295P25-69	05-00314	---
ASS2295P25-71	05-00315	---
AS0432138-2	05-00316	---

6260 RETAINING NUT 7/16-20

The retaining nut threads onto the threaded section of the control on the back side of the instrument panel to secure the control. Replacement retaining nut p/n 6260 for all McFarlane MC6350 dual push-to-unlock controls.

P/N 05-04581 ..... ---

INTER-CYLINDER BAFFLE

Intercylinder Baffles for Teledyne Six Cylinder Engines. Replaces Cessna Part Number 0750135-1 and 0851833-1.

P/N 05-02362 ..... ---

CESSNA FLAP TRAILING EDGE STIFFENER

Improved Fit to Reduce Skin Stress. The stiffeners are accurately shaped to the same angle that the top and bottom skins come together to completely eliminate the bending stress due to riveting the skins together. FAA/PMA Approved. For application please call or visit our website.

Flap Tracing Edge Stiffener 79.5" .....P/N 05-00046 ..... ---
Flap Tracing Edge Stiffener 116.25" .....P/N 05-07237 ..... ---

CESSNA SEAT RELEASE CONTROL ASSEMBLY

Seat Release Control Assembly that incorporates many design improvements. This control assembly will last significantly longer! • Cessna 172R,S, 182S,T, T182T, 206H, T206H • Lifetime anodized aluminum housing - not cheapy plastic • Heavy duty cable and terminal - twice as strong! • Nylon lined conduit tubing ensures your cable will not bind • Fully repairable .....P/N 05-27276 ..... ---

CESSNA WHEEL PANT MOUNTING PLATES

These FAA-PMA approved mounting plates are anodized for improved corrosion resistance and will save over $100 compared to factory mounting plates. Approved with partial eligibility for the Cessna 150, 152, and 172. Verify approval for your aircraft with Aircraft Spruce prior to ordering.

Cessna Part No.	Aircraft Model	Our Part No.	Price Each
0441225-1 (Left)	150/152	05-01497	---
0441225-2 (Right)	150/152	05-01498	---
0441220-1 (Left)	172	05-01499	---
0441220-2 (Right)	172	05-01501	---

CESSNA CARAVAN BUSHING KITS ELEVATOR AND RUDDER

Cessna has issued several non-mandatory service bulletins and service kits for the rudder and elevator hinge bearings on the Caravan due to a corrosion issue with the needle bearing. The service kits require modification to the hinge structure, not just the bearing itself. The new bearing is a different size than the "original" design, so the mounting hardware is different as well. Because of these structural changes any aircraft that has had the service kits installed cannot use hardware from a non-service kit aircraft. Includes bearings and all attaching hardware.

Caravan Elevator Bushing Kit EBC-KT-7 ....P/N 05-06879 ..... ---
Caravan Elevator Bushing Kit EBC-KT-8 ....P/N 05-06880 ..... ---
Rudder Bushing Kit RBC-KT-9 .....P/N 05-06881 ..... ---
Rudder Bushing Kit RBC-KT-10 .....P/N 05-06882 ..... ---

CESSNA CABLE & CHAIN KITS

Complete flight control and trim chain kits for each of the 150 different cable groups required to service all single engine aircraft from the model 120 through model 185 airplanes. It is a tedious and time consuming job to research the part manuals for all of the cables required for a complete aircraft. We carry stock on all of the cables in either Galvanized-Carbon Steel or Stainless Steel. All components are fully traceable, high quality, and proof tested.

Cable & Chain Kit CCKT206H-01S .....P/N 05-04605 ..... ---
Cable & Chain Kit CCKT172175-13S.....P/N 05-04599 ..... ---
Cable & Chain Kit CCKT206H-01G.....P/N 05-04604 ..... ---
Cable & Chain Kit CCKT172175-13 .....P/N 05-04598 ..... ---
Cable & Chain Kit CCKT182-13G .....P/N 05-04601 ..... ---

CABIN DOOR HINGE ASSEMBLY FOR CESSNA AIRCRAFT

Replacement FAA-PMA cabin door hinge assembly for Cessna 170 / 172 / 175 aircraft. Note: Cessna legacy airplanes, built prior to 1979, feature a door post skin that angles inward (toward the front edge of the door). Aircraft with this bend require a hinge with a 5° bend for correct installation. Later models and new production aircraft do not have this inward angle and use a straight hinge.

P/N 05-27278 ..... ---

RETRACTABLE GEAR BRAKE SWIVEL FOR CESSNA AIRCRAFT

Retractable Gear Brake Swivel for Cessna Aircraft, including O-ring P/N MS28778-3. Replace your leaking Brake Swivel Assembly with an improved assembly that a direct FAA-PMA replacement for the OEM 1280111-1. It's designed to provide a leak-proof swivel point, allowing the landing gear to retract without damaging the brake line. Each assembly undergoes pressure and motion testing .....P/N 05-27274 ..... ---

AP

FAA-PMA APPROVED CONTROLS FOR CESSNAS THROTTLES – PROP – MIXTURE

Throttle, Propeller, Mixture, controls are available for most Cessna single engine aircraft from the Cessna 120 through the 210 series. These FAA-PMA controls are ultra-smooth, flexible with no stretch, arctic tested to -50°F, and tested to 250,000 cycles. They feature brass body assembly, teflon lined conduit, stainless steel ends, viton dust boots, aluminum friction lock, and a high quality phenolic knob (throttle, mixture, and prop).

Throttle Controls				
Model	**Serial No.**	**Model No.**	**Part No.**	**Price**
120	8000 thru 11846	MC0411091-7	05-00272	---
140	11847 thru 15075	MC0411091-7	05-00272	---
140A	15200 thru 15724	MC0411091-7	05-00272	---
150	17001 thru 59018	MC0411091-7	05-00272	---
150 A, B, C, D, E ,F	15059019 thru 15064532	MCS1222-11S	05-00197	---
F150F	F1500001 thru F1500067	MCS1222-11S	05-00197	---
150G	15064533 thru 15067198	MCS1222-14S	05-00199	---
F150G	F1500068 thru F1500219	MCS1222-14S	05-00199	---
150 H, I, J, K, L, M	15067199 thru 15079405	MCC299505-0202S	05-00262	---
A150 K, L, M	A1500001 thru A1500734	MCC299505-0202S	05-00262	---
F150 H, J, K, L, M	F1500220 thru F1501428	MCC299505-0202S	05-00262	---
FA150 K, L	FA1500001 thru FA1500120	MCC299505-0202	05-00262	---
152*	15279406 thru 15282031	MC9863053-20	05-00248	---
A152*	A1520735 thru A1520808	MC9863053-20	05-00248	---
F152*	F15201429 thru F15201528	MC9863053-20	05-00248	---
FA152*	FA1520337 thru FA1520347	MC9863053-20	05-00248	---
152*	15282032 thru 15286033	MC9863056-1	05-00251	---
A152*	A1520809 thru A1521049	MC9863056-1	05-00251	---
F152*	F15201529 thru F15201929	MC9863056-1	05-00251	---
FA152*	FA1520348 thru FA1520425	MC9863056-1	05-00251	---
170, 170A, B*	18000 thru 25372	MC0411091-2	05-00269	---
170B*	25373 thru 27169	MCS1222-2S	05-00206	---
172, 172A, B, C, D	28000 thru 17250572	MCS1222-2S	05-00206	---
F172D	F1720001 thru F1720018	MCS1222-2S	05-00206	---
172 E, F, G, H	17250573 thru 17256512	MCS1222-15S	05-00201	---
F172 E, F, G, H*	F1720019 thru F1720559	MCS1222-15S	05-00201	---
172 I, K, L, M	17256513 thru 17267584	MCC299505-0102	05-00259	---
F172 M*	F17201035 thru F1720151	MCC299505-0102	05-00259	---
172 N*	17267585 thru 17271034	MC9863053-15	05-00246	---
F172 N*	F17201515 thru F17201749	MC9863053-15	05-00246	---
172 N*, P, Q	17271035 thru 17276673	MC9863056-3	05-00253	---
F172 N*, P	F17201750 thru F17202254	MC9863056-3	05-00253	---
172R	17280001 and On	MC565-549-021	05-00988	---
172 S	172S8001 and On	MC565-549-021	05-00988	---
175*	55001 thru 55703	MC0411091-27	05-00271	---
177	17700001 thru 17701164	MCS1222-19	05-00203	---
177 A, B*	17701165 thru 17702539	MCC299505-030	05-00264	---
180 A, B, C, 9D, E, F, G	30000 thru 18051445	MCS1222-1S	05-00204	---
180 H*	18051446 thru 18051875	MCS1222-13S	05-00198	---
180 H*, J	18051876 thru 18052770	MCC299505-0201S	05-00261	---
180 K*	18052771 thru 18053000	MC9863053-5	05-00249	---
182 A, B, C, D	33000 thru 18253598	MCS1222-1S	05-00204	---
182 E, F, G	18253599 thru 18255844	MCS1222-6S	05-04606	---
182 H, J, K	thru 18258505	MCS1222-13S	05-00198	---
182 L, M, N, P*	18258506 thru 18261425	MCC299505-0201S	05-00261	---
182 P*	18261426 thru 18264835	MCC299505-0205	05-00263	---
182 P*, Q*	18264836 thru 18266590	MC9863053-5	--	--
F182 P*, Q	F18200001 thru F18200094	MC9863053-5	--	--
182 S	18280001 thru 18280944	MC565-549-031	05-00989	---
182 T	18280945 and On	MC565-549-031	05-00989	---
T182 T	T18208001 and On	MC565-549-031	05-00989	---
T182	18267716 thru 18268615	MC9863056-7	05-00257	---
R182*	R18200001 thru R18200583	MC9863053-11	05-00244	---
FR182*	FR18200001 thru FR18200020	MC9863053-11	05-00244	---
R182*	R18200584 thru R18202041	MC9863056-6	05-00256	---
FR182*	FR18200021 thru FR18200070	MC9863056-6	05-00256	---
TR182	R18200584 thru R18202041	MC9863056-7	05-00257	---
A185 E*	185-1301 thru 185-1599	MCC299505-0301	05-00264	---
A185 E*	18501600 thru 18502007	MCC299505-0301	05-00264	---
A185 E*	18502026 and 18502027	MCC299505-0301	05-00264	---
A185 E*, F*	18502008 thru 18502025	MCC299505-0501	05-00265	---
A185 E*, F*	18502028 thru 18503153	MCC299505-0501	05-00265	---

FOR CARBURETOR HEAT CONTROLS FOR CESSNA 140-185, VISIT OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

Model (cont'd)	Serial No.	Model No.	Part No.	Price
188A, A188B*	18800833 thru 18802745	MCS2149-1	05-00226	---
A188 B*	18802746 thru 18803856	MCC299508-0301	05-00184	---
205, 205 A	205-0001 thru 205-0577	MCS1219-1	05-00193	---
206	206-0001 thru 206-0275	MCS1219-1	05-00193	---
P206 C, D, E	P206-0420 thru P20600647	MCC299505-0101	05-00258	---
U206 C, D, E, F	U206-0915 thru U20603521	MCC299505-0101	05-00258	---
U206G*/ TU206G*	U20603522 thru U20604649	MC9863053-13	05-00245	---
U206G*/ TU206G*	U20604650 thru U20606439	MC9863056-2	05-00252	---
206H	20608001 and On	MC565-549-041	05-00990	---
T206H	T20608001 and On	MC565-549-041	05-00990	---
207, T207	20700007 thru 20700362	MCS1222-25A	05-00205	---
207A*/ T207A*	20700363 thru 20700482	MC9863053-16	05-00247	---
207A*/ T207A*	20700483 thru 20700788	MC9863056-4	05-00254	---
210 B, C, D	21057841 thru 21058510	MCS1219-1	05-00193	---
210 H, J, K, L	21058937 thru 21061573	MCC299505-0101	05-00258	---
T210 H, J, K, L	T210-0308 thru 21061573	MCC299505-0101	05-00258	---
210 M / T210 M	21061574 thru 21062954	MC9863053-13	05-00245	---
210 N* / T210 N*	21062955 thru 21064897	MC9863056-2	05-00252	---
P210 N*	P21000001 thru P21000150	MC9863053-13	05-00245	---
P210 N*	P21000151 thru P21000834	MC9863056-2	05-00252	---

***PARTIAL MODEL ELIGIBILITY**

Accessories

Cessna Rod End S1104-3..... P/N 06-00684 ..... --- Cessna Controls 1230-17..... P/N 06-00686.....---

Propeller Controls				
Model	**Serial Number**	**Part No.**	**Our P/N**	**Price**
177B*	17701371 thru 17702539	C299506-0105	05-00177	---
177RG*	177RG0001 thru 177RG1051	C299506-0105	05-00177	---
F177RG*	F177RG0001 thru F177RG0160	C299506-0105	05-00177	---
180A,B,C,D,E,F,G	30000 thru 18051445	S1223-4	05-00209	---
180H*, J	18051876 thru 18052770	S1223-4	05-00209	---
182,A,B,C,D	33000 thru 18253598	C299506-0103	05-00268	---
182E,F,G	33000 thru 18253598	S1223-4	05-00209	---
182E,F,G	18253599 thru 18255844	S1223-6S	05-00207	---
182H,J,K	18255845 thru 18258505	S1223-3	05-00208	---
182L,M,N,P	18258506 thru 18265175	S1223-6	05-00211	---
FR182P	F18200001 thru F18200025	C299506-0102	05-00267	---
180H, 185, 185A,B,C,D,E, A185E	18051446 thru 18051875, 185-0001 thru 185-0237, 185-0238 thru 185-1149, 185-0968-185-1300	MCS1223-5	05-11062	---
182Q,R	18265176 thru 18268615	C299506-0102	05-00267	---
A185E*	185-1301 thru 18502007	C299506-0103	05-00268	---
A185E*	18502026 and 18502027	C299506-0103	05-00268	---
A185E*,F	18502008 thru 18502025	C299506-0201	05-00178	---
A185E*,F	18502028 thru 18503153	C299506-0201	05-00178	---
A188B*	18800833 thru 18802745	S2149-2	05-00228	---
A188B*	18802746 thru 18803856	C299508-0302	05-00187	---
T188C	T18803297T thru T18803422T	C299508-0304	05-00191	---
U206, U206A,B,	U206-0276 thru U206-0914	S1223-4	05-00209	---
TU206A,B	U206-0276 thru U206-0914	S1223-4	05-00209	---
P206, P206A,B	P2060001 thru P2060419	S1223-4	05-00209	---
U206C,D,E,F	U2060915 thru U20603521	C299506-0101	05-00266	---
TU206C,D,E,F	U2060915 thru U20603521	C299506-0101	05-00266	---
P206C,D,E	P206-0420 thru P20600647	C299506-0101	05-00266	---
U206G, TU206G	U20603522 thru U20607020	9862067-1	05-00241	---
207A, T207A	20700363 thru 20700788	9862067-12	05-00242	---
210E,F,G	21058511 thru 21058936	S1223-4	05-00209	---
Mixture Controls				
Model	**Serial Number**	**Part No.**	**Our P/N**	**Price**
T210F,G	T2100001 thru T2100307	S1223-4	05-00209	---
210H,J,K,L	21058937 thru 21061573	C299506-0101	05-00266	---
T210H,J,K,L	T2100308 thru T2100454	C299506-0101	05-00266	---
210M,N,T210M,N	21061574 thru 21064897	9862067-1	05-00241	---
P210N	P21000001 thru P21000834	9862067-1	05-00241	---
R172E,F,G,H,J,K	R1722000 thru R1723454	9862066-6	05-00239	---
185A,B,C,D,E	185-0238 thru 185-1599	C299507-0201	05-00181	---
A185E,F*	18501600 thru 18502007	C299507-0201	05-00181	---
A185E,F*	18502026 and 18502027	C299507-0201	05-00181	---
A185F*	18502008 thru 18502025	C299507-0401	05-00183	---
A185F*	18502028 thru 18503153	C299507-0401	05-00183	---
188,188A	1880001 thru 1880572	S1220-13	05-00195	---
A188	18800573 thru 18800832	S1220-13	05-00195	---
188B, A188B*	1880833 thru 18802745	C299507-0301	05-00182	---

Mixture Controls (cont'd)				
Model	**Serial Number**	**Part No.**	**Our P/N**	**Price**
A188B*	18802746 thru 18803856	C299508-0401	05-00189	---
T188C	T18803297T thru T18803422T	C299508-0402	05-00191	---
205, 205A	205-0001 thru 205-0577	S1220-3	05-00196	---
206	206-0001 thru 206-0275	S1220-3	05-00196	---
U206, U206A,B	U206-0276 thru U206-0914	S1220-3	05-00196	---
P206, P206A,B	P206-0001 thru P206-0419	S1220-3	05-00196	---
U206C,D,E,F	U206-0915 thru U20603521	C299507-0101	05-00179	---
TU206C,D,E,F	U206-0915 thru U20603521	C299507-0101	05-00179	---
P206C,D,E	P206-0420 thru P2060647	C299507-0101	05-00179	---
U206G, TU206G	U20603522 thru U20607020	9862066-1	05-00237	---
207, T207	20700001 thru 20700362	S1220-12A	05-00194	---
207A, T207A	20700363 thru 20700788	9862066-5	05-00238	---
210B,C,D,E,F,G	21057841 thru 21058936	S1220-3	05-00196	---
T210F,G	T210-0001 thru T210-0307	S1220-3	05-00196	---
210K,L, T210K,L	21059200 thru 21061573	C299507-0101	05-00179	---
210M,N, T210M,N	21061574 thru 21064897	9862066-6	05-00239	---
P210N	P21000001 thru P21000834	9862066-6	05-00239	---
182S	18280001 - 18280944	C565-548-042	05-00994	---
182T	18280945 - On	C565-548-042	05-00994	---

CESSNA COWL FLAP CONTROLS

Cowl Flap controls are available for most Cessna single engine aircraft from the Cessna 120 through the 210 series. These FAA-PMA controls are ultra-smooth, flexible with no stretch, arctic tested to -50°F, and tested to 250,000 cycles. They feature brass body assembly, teflon lined conduit, stainless steel ends, viton dust boots, aluminum friction lock, and a high quality phenolic knob (throttle, mixture, and prop). Our P/Ns are interchangeable with Cessnas P/Ns; "AS" prefix denotes Aircraft Spruce!

Model	Serial Number	Loc.	Part No.	Our P/N	Price	Loc.	Part No.	Our P/N	Price
R172K	R1722000 thru R1723454	1 per A/C	S1391-26	05-00222	---	----	----------	-----	------
FR172K	FR17200591 thru FR17200675	1 per A/C	S1391-26	05-00222	---	----	----------	-----	------
177B	17701371 thru 17702752	Left	S1391-25	05-00221	---	Right	S1391-26	05-00221	---
177RG	177RG0001 thru 177RG1366	Left	S1391-27	05-00223	---	Right	S1391-27	05-00223	---
180D,E	18050912 thru 18051183	Left	S1245-1	05-00217	---	Right	S1245-1	05-00217	---
180F	18051184 thru 18051312	Left	S1245-1	05-00217	---	Right	S1245-2	05-00218	---
180G	18051313 thru 18051445	Left	S1245-3	05-00219	---	Right	S1245-2	05-00218	---
180H,J	18051446 thru 18052770	Left	S1572-1	-----	-----	Right	S1245-2	05-00218	---
180K	18052771 thru 18053203	Left	9860074-3	05-00232	---	Right	9860074-4	05-00233	---
182D	18253008 thru 18253598	Left	S1245-1	05-00217	---	Right	S1245-1	05-00217	---
182E,F,G,H,J,K,L,M,N,P,Q,R	18253599 thru 18268615	Left	9860058-3	05-00229	---	Right	9860058-4	05-00231	---
T182	18267716 thru 18268541	Left	9860075-3	05-00234	---	Right	9860075-4	05-00235	---
R182/TR182	R18200002 thru R18202041	Left	9860075-3	05-00234	---	Right	9860075-4	05-00235	---
182S, 182T	18280001 and On	Left	580-703-024	05-01736	---	Right	580-703-025	05-01737	---
T182T	T18208001 and On	Left	580-703-024	05-01736	---	Right	580-703-025	05-01737	---
185, 185A,B,C	185-0001 thru 185-0776	Left	S1245-3	05-00219	---	Right	S1245-2	05-00218	---
185D,E, A185E,A185F*	185-0777 thru 18503153	Left	S1572-1	-----	-----	Right	S1245-2	05-00218	---
A185F*	185603154 thru 18504448	Left	9860074-3	05-00232	---	Right	9860074-4	05-00233	---
205, 205A	205-0001 thru 205-0577	Left	S1244-5	05-00216	---	Right	S1244-31	05-00214	---
206, U206	206-0001 thru 206-0275	Left	S1244-5	05-00216	---	Right	S1244-31	05-00214	---
U206A,B,C,D,E,F*	U206-0276 thru U20602199	Left	S1244-5	05-00216	---	Right	S1244-31	05-00214	---
P206, P206A,B,C,D,E	P206-0001 thru P20600647	Left	S1244-5	05-00216	---	Right	S1244-31	05-00214	---
TP206A*	P206-0161 thru P206-0274	Left	S1244-5	05-00216	---	Right	S1244-31	05-00214	---
TU206A*	U206-0438 thru U206-0617	Left	S1244-5	05-00216	---	Right	S1244-31	05-00214	---
TP206A*,B,C,D,E	P206-0275 thru P20600647	Left	S1244-32	05-00215	---	Right	S1244-31	05-00214	---
TU206A*,B,C,D,E,F,G	U206-0618 thru U20607020	Left	S1244-32	05-00215	---	Right	S1244-31	05-00214	---
U206F*,G	U20602200 thru U20607020	Left	S1244-32	05-00215	---	Right	S1244-31	05-00214	---
206H	20608001 and On	Left	580-703-026	05-01738	---	Right	580-703-027	05-01739	---
T206H	T20608001 and On	Left	580-703-026	05-01738	---	Right	580-703-027	05-01739	---
207, 207A,T207,T207A	20700001 thru 20700788	Left	S1244-29	05-00212	---	Right	S1244-30	05-00213	---
210, 210A	57001 thru 21057840	Left	1213040-1	05-00224	---	Right	1213040-2	05-00225	---
210B,C,D,E,F,G,H,J,K*	21057841 thru 21059240	Left	S1244-5	05-00216	---	Right	S1244-31	05-00214	---
T210F	T210-0001 thru T210-0197	Left	S1244-5	05-00216	---	Right	S1244-31	05-00214	---
210K*,L,M,N	21059241 thru 21064897	Left	S1244-32	05-00215	---	Right	S1244-31	05-00214	---
T210G,H,J,K,L,M,N	T210-0198 thru 21064897	Left	S1244-32	05-00215	---	Right	S1244-31	05-00214	---
P210N*	P21000001 thru P21000834	Left	S1244-32	05-00215	---	Right	S1244-31	05-00214	---

***Denotes partial model eligibility**

UNIVERSAL PUSH TO UNLOCK CONTROLS

Universal Push to Unlock Controls MC6150/MC6250 - Perfect for home built or custom projects! Quality stainless steel construction • Teflon lined for smooth operation • Heavy duty strength and long life • 3" maximum travel and 15lb. locking force • Anodized aluminum knobs in red, black, blue or clear • Custom laser marking available
MC6150 Series: - • Solid wire end • Available in 4, 6, 8, 10 and 12 foot lengths • Maybe cut to length.
MC6250 Series: - • 10-32 threaded end • Available in 4, 6, 8, 10 and 12 foot lengths

MC6150 CONTROLS (SOLID WIRE END)

Description	Part No.	Price
Black Knob, 4Ft.	05-04151	---
Black Knob, 6Ft.	05-04152	---
Black Knob, 8Ft.	05-04153	---
Black Knob, 10Ft.	05-04154	---
Black Knob, 12Ft.	05-04155	---
Clear Knob, 4Ft.	05-04490	---
Clear Knob, 6Ft.	05-04491	---
Clear Knob, 8Ft.	05-04492	---
Clear Knob, 10Ft.	05-04493	---
Clear Knob, 12Ft.	05-04494	---
Blue Knob, 4Ft.	05-04495	---
Blue Knob, 6Ft.	05-04496	---
Blue Knob, 8Ft.	05-04497	---
Blue Knob, 10Ft.	05-04498	---
Blue Knob, 12Ft.	05-04499	---
Red Knob, 4Ft.	05-04156	---
Red Knob, 6Ft.	05-04157	---
Red Knob, 8Ft.	05-04158	---
Red Knob, 10Ft.	05-04159	---
Red Knob, 12Ft.	05-04160	---

MC6250 CONTROLS (THREADED END)

Description	Part No.	Price
Black Knob, 4Ft.	05-04501	---
Black Knob, 5Ft.	05-04502	---
Black Knob, 6Ft.	05-04503	---
Black Knob, 7Ft.	05-04504	---
Black Knob, 8Ft.	05-04505	---
Black Knob, 9Ft.	05-04506	---
Black Knob, 10Ft.	05-04507	---
Clear Knob, 4Ft.	05-04508	---
Clear Knob, 5Ft.	05-04509	---
Clear Knob, 6Ft.	05-04510	---
Clear Knob, 7Ft.	05-04511	---
Clear Knob, 8Ft.	05-04512	---
Clear Knob, 9Ft.	05-04513	---
Clear Knob, 10Ft.	05-04514	---
Blue Knob, 4Ft.	05-04515	---
Blue Knob, 5ft	05-04516	---
Blue Knob, 6ft.	05-04517	---
Blue Knob, 7Ft.	05-04518	---
Blue Knob, 8Ft.	05-04519	---
Blue Knob, 9Ft.	05-04522	---
Blue Knob, 10ft.	05-04523	---
Red Knob, 4Ft.	05-04524	---
Red Knob, 5Ft.	05-04525	---
Red Knob, 6Ft.	05-04526	---
Red Knob, 7Ft.	05-04527	---
Red Knob, 8Ft.	05-04528	---
Red Knob, 9Ft.	05-04529	---
Red Knob, 10Ft.	05-04530	---

WIRE CLAMP BOLTS FOR CESSNAS

Wire clamps for solid wire controls for Cessna Aircraft. Wire clamps are used on solid wire controls including cabin air, mixture control, strainer drain, cabin heat, defrost, flap and many others.
FAA-PMA approved for Cessna 120 through the 425 series aircraft. Unique design to reduce wire stress. Manufactured from heat treated stainless steel for better wear and corrosion resistance.
***Please visit our website for part specifications and application information.**

Manufacturer Part No.	Part No.	Price
MCS2323-1	05-04583	---
MCS2323-2	05-04584	---
MCS2323-3	05-04585	---
MCS2323-4	05-04586	---
MCS2323-5	05-04587	---
MCS2323-6	05-04588	---
MCS2323-7	05-04589	---
MCS2323-8	05-04590	---
MCS2323-9	05-04591	---
MCS2323-10	05-04592	---
MCS2323-11	05-04593	---
MCS2323-12	05-04594	---
MCS2323-13	05-04595	---
MCS2323-14	05-04596	---
MCS2323-19	05-04597	---

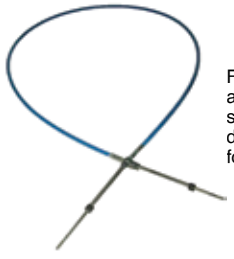
AP

MC1660300-30 AILERON DIRECT CABLE

This Aileron Direct cables eligible for installation in Cessna 188A and A188A aircraft, serial range 18800573 thru 18800707. This cable has also been added to the cable kit CCKT188-04 188A, A188A 1970-1971 Serial Number 18800573-18800707 .....P/N 05-04614 ..... ---

MC600 SERIES UNIVERSAL SOLID WIRE VERNIER MIXTURE CONTROL

FAA-PMA approved for use as a minor alteration part on the following aircraft: • Cessna • Raytheon • Maule • Cessna/Reims • Mooney • Univair (Stinson) • Piper Call for Specific Models - Easily field approved for other applications - Trim to exact length
P/N 05-01254 ..... ---



THROTTLE CONTROL

Fittings and components are made from anodized aluminum, stainless steel, and brass. All critical swage connections are metal to metal for continued dependability. Vernier locking devices are precision formed and heat treated in critical wear areas.
P/N 05-02209 ..... ---

CESSNA/PIPER VERNIER ASSIST CONTROLS

Vernier-Assist for non-certified aircraft and an extended line of FAA-PMA approved controls, the breakthrough design is now approved on throttle controls for Cessna, Piper, Beechcraft, Grumman, and Bellanca.
These light weight controls use a patented roller action and do not use a positive lock thread engagement. Coarse adjustments are made by pushing the knob inwards or pulling the knob outwards. Fine adjustments are made by rotating the knob clockwise or counter-clockwise. For extreme conduit routing or heavy carburetor load installation, slight inward or outward assist pressure could be required during rotation.
Part Numbering Note:
Part numbers for Vernier-Assist™ are the same as McFarlane's original push-pull FAA-PMA approved controls, except the "MC" prefix changes to "MCVA".

OEM P/N	Aircraft	Part No.	Price
MCVA565-549-021	172: R, S	05-26515	---
MCVAC299505-0102	172: I, K, L, M, F172M	05-26516	---
MCVA9863056-3	172: N, P, Q, F172N, F172P	05-26517	---
MCVA9863056-1	152: A152, F152, FA152	05-26520	---
MCVAC299505-0202S	150: H, J, K, L, M A150: K, L, M F150: H, J, K, L, M FA150: K, L FRA150: L, M	05-26521	---
MCVAC299505-0101	P206: C,D, E TP206: C, D, E TU206: C, D, E, F U206: C, D, E, F 210: H, J, K, L T210: H, J, K, L	05-26522	---
MCVA9863056-2	206: TU206G, U206G 210: N, P210N, T210N	05-26523	---
MCVAS1222-1S	180: A, B, C, D, E, F, G 182: A, B, C, D	05-26524	---
MCVA12693-04	PA-22 PA-28: -140, -150, -160, -180, -235	05-26525	---
MCVA9863053-20	152: A152, F152, FA152	05-26526	---
MCVA9863053-15	172: N, F172N	05-26527	---
MCVAC299505-0205	182: 182P	05-26528	---
MCVAC299505-0201S	180: H, J 182: L, M, N, P	05-26529	---
MCVA565-549-031	182: S, T, T182T	05-26530	---
MCVAS1222-2S	170 B 172: A, B, C, D, F172D	05-26531	---
MCVA9863055-9	180K 182, R, F182Q	05-26532	---
MCVAS1222-15S	172: E, F(T-41A), G, H(T-41A) F172: E, F, G, H	05-26533	---
MCVAS1222-6S	182: E, F, G	05-26534	---
MCVAC299505-0501	185 - A185: E, F	05-26535	---
MCVA507005-3	AA-5: AA-5B	05-26536	---
MCVA9863053-13	206: TU206G, U206G 210: P210N, T210M	05-26537	---
MCVA9863056-8	172: 172RG	05-26540	---
MCVAC299505-0301	177: A, B 185: A185E	05-26541	---
MCVAS1222-11S	150: A, B, C, D, E, F, F150F	05-26542	---
MCVAS1222-13S	180: H 182: J, K	05-26543	---
MCVA9863053-5	180: K 182: Q, F182P, F182Q	05-26544	---
MCVAS1222-10A	206: P206- A, B, TP206- A, B, TU206- A, B, U206- A, B 210: E, F, G, T210- F, G	05-26545	---
MCVA9863056-5	185: A185F	05-26546	---

OEM P/N	Aircraft	Part No.	Price
MCVAC299505-0401	177: RG, F177RG	05-26547	---
MCVA0411091-7	120, 140 140: A 150	05-26548	---
MCVA565-549-041	206: H, T206H	05-26549	---
MCVAS1219-1	205: 210-5(205),210-5A(205A) 206 210: B, C, D	05-26550	---
MCVA9863056-6	182: FR182, R182	05-26551	---
MCVA507005-2	AA-5: AA-5A	05-26552	---
MCVA9863056-7	182: T182, TR182	05-26553	---
MCVAS1222-14S	150: G, F150G	05-26554	---
MCVA0411091-2	170: A, B	05-26556	---
MCVA9863053-17	185: A185F	05-26557	---
MCVA9863056-4	207: A, T207A	05-26558	---
MCVAS1222-19	177	05-26559	---
MCVA69530-02	PA-32: PA-32-300	05-26560	---
MCVA9863055-10	FR172K, R172K	05-26561	---
MCVA1213228-2	210: 210A	05-26562	---
MCVAS1294-1	185: A, B, C, D, E, A185E	05-26563	---
MCVAS1222-25A	207: T207	05-26564	---
MCVAS1222-4	172: FP172, P172D 175: A, B, C	05-26565	---
MCVA9863053-10	172: FR172K, R172K	05-26566	---
MCVA9863053-16	207: A, T207A	05-26567	—
MCVAC299505-0203S	172: F172- H, K, L, M	05-26568	---
MCVAC299505-0204S	172: FR172- F, G, H, J	05-26569	---
MCVA0411091-4	190 195A, B, 195 (LC-126A, B, C)	05-26570	---
MCVAC299513-0101	210: R, P210R, T210R	05-26571	---
MCVA0411091-27	175	05-26572	---
MCVA455-139	PA-20, PA-22	05-26573	---
MCVA507005-1	AA-1: A, B, C	05-26574	---
MCVA565-549-013	177: B	05-26575	---
MCVAS191783-18	17-30: A, 17-31A, 17-31ATC	05-26576	---
MCVA0411091-30	175	05-26577	---
MCVA1213228-3	185	05-26578	---
MCVA35-944046-7	33 / 35 / 36	05-27277	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CESSNA FLAP SKINS – AILERON SKINS

- Better and costs less!
- No pre-drilled holes to misalign
- Precisely formed and trimmed
- Plastic coated on both sides for better protection during handling (remove before installation)
- Direct replacement - No STC required

FLAP SKIN KIT COMPONENTS

Qty	MFG P/N	Description	Part No.	Price
KIT	SKN-KT-FLP1	Flap skin kit	05-04164	---
1 ea	MC0426901-10	Flap Upper RH	05-03371	---
1 ea	MC0426901-11	Flap Upper LH	05-03372	---
1 ea	MC0426901-6	Flap Lower LH	05-03369	---
1 ea	MC0426901-7	Flap Lower RH	05-03370	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP2	Flap skin kit	05-04169	---
1 ea	MC0523901-4	Flap Upper LH	05-04113	---
1 ea	MC0523901-5	Flap Upper RH	05-04114	---
1 ea	MC0523901-6	Flap Lower LH	05-04115	---
1 ea	MC0523901-7	Flap Lower RH	05-04116	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP3	Flap skin kit	05-04170	---
2 ea	MC0523901-201	Flap Upper LH RH	05-04125	---
1 ea	MC0523901-6	Flap Upper LH	05-04115	---
1 ea	MC0523901-7	Flap Lower RH	05-04116	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP4	Flap skin kit	05-04171	---
1 ea	MC0523901-21	Flap Upper LH	05-04119	---
1 ea	MC0523901-22	Flap Upper RH	05-04120	---
1 ea	MC0523901-19	Flap Lower LH	05-04117	---
1 ea	MC0523901-20	Flap Lower RH	05-04118	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP5	Flap skin kit	05-04172	---
1 ea	MC0523901-25	Flap Upper LH	05-04121	---
1 ea	MC0523901-26	Flap Upper RH	05-04122	---
1 ea	MC0523901-27	Flap Lower LH	05-04123	---
1 ea	MC0523901-28	Flap Lower RH	05-04124	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP6	Flap skin kit	05-04173	---
1 ea	MC0523901-25	Flap Upper Inbd LH	05-04121	---
1 ea	MC1220100-20	Flap Upper Inbd RH	05-04135	---
1 ea	MC1220100-5	Flap Upper Otbd LH	05-04132	---
1 ea	MC1220100-6	Flap Upper Otbd RH	05-04133	---
1 ea	MC1220100-27	Flap Lower Inbd LH	05-04123	---
1 ea	MC1220100-18	Flap Lower Otbd RH	05-04134	---
1 ea	MC1220100-3	Flap Lower Otbd LH	05-04130	---
1 ea	MC1220100-4	Flap Lower Otbd RH	05-04131	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP7	Flap skin kit	05-04174	---
1 ea	MC0523901-25	Flap Upper Inbd LH	05-04121	---
1 ea	MC1220100-26	Flap Upper Inbd RH	05-04122	---
1 ea	MC1220100-5	Flap Upper Otbd LH	05-04132	---
1 ea	MC1220100-6	Flap Upper Otbd RH	05-04133	---
1 ea	MC1220100-27	Flap Lower Inbd LH	05-04123	---
1 ea	MC1220100-28	Flap Lower Inbd RH	05-04124	---

FLAP SKIN KIT COMPONENTS CONT.

Qty	MFG P/N	Description	Part No.	Price
1 ea	MC1220100-3	Flap Lower Otbd LH	05-04130	---
1 ea	MC1220100-4	Flap Lower Otbd RH	05-04131	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP8	Flap skin kit	05-04175	---
1 ea	MC1220100-33	Flap Upper Inbd LH	05-04133	---
1 ea	MC1220100-34	Flap Upper Inbd RH	05-04134	---
1 ea	MC1220100-5	Flap Upper Otbd LH	05-04132	---
1 ea	MC1220100-6	Flap Upper Otbd RH	05-04133	---
1 ea	MC1220100-35	Flap Lower Inbd LH	05-04138	---
1 ea	MC1220100-36	Flap Lower Inbd RH	05-04139	---
1 ea	MC1220100-3	Flap Lower Otbd LH	05-04130	---
1 ea	MC1220100-4	Flap Lower Otbd RH	05-04131	---

AILERON SKIN KIT COMPONENTS

Qty	MFG P/N	Description	Part No.	Price
KIT	SKN-KT-AIL1	Skin Kit	05-04140	---
1 ea	MC0523800-6	Aileron Upper Inbd LH	05-03373	---
1 ea	MC0523800-7	Aileron Upper Inbd RH	05-03374	---
1 ea	MC0523800-8	Aileron Upper Otbd LH	05-03375	---
1 ea	MC0523800-9	Aileron Upper Otbd RH	05-03376	---
1 ea	MC0523800-10	Aileron Lower Inbd LH	05-03377	---
1 ea	MC0523800-11	Aileron Lower Inbd RH	05-03378	---
1 ea	MC0523800-12	Aileron Lower Otbd LH	05-03379	---
1 ea	MC0523800-13	Aileron Lower Otbd RH	05-03380	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-AIL2	Skin Kit	05-04141	---
1 ea	MC1624001-5	Aileron Upper Inbd LH	05-04145	---
1 ea	MC1624001-6	Aileron Upper Inbd RH	05-04146	---
1 ea	MC1624001-9	Aileron Upper Otbd LH	05-04149	---
1 ea	MC1624001-10	Aileron Upper Otbd RH	05-04150	---
1 ea	MC1624001-3	Aileron Lower Inbd LH	05-04143	---
1 ea	MC1624001-4	Aileron Lower Inbd RH	05-04144	---
1 ea	MC1624001-7	Aileron Lower Otbd LH	05-04147	---
1 ea	MC1624001-8	Aileron Lower Otbd RH	05-04148	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-AIL3	Skin Kit	05-04142	---
1 ea	MC1220085-11	Aileron Upper LH	05-04126	---
1 ea	MC1220085-12	Aileron Upper RH	05-04127	---
1 ea	MC1220085-13	Aileron Upper LH	05-04128	---
1 ea	MC1220085-14	Aileron Upper RH	05-04129	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-AIL4	Skin Kit	05-13255	---
2 ea	MC0424000-10	Skin, Aileron	05-13234	---
2 ea	MC0424000-20	Skin, Aileron	05-13235	---

CESSNA 206/207/210 SKIN FLAP LOWER OUTBOARD

• More precise corrugation spacing and shape • No pre-drilled holes to misalign • Precisely formed and CNC cut to shape to match OEM skins • Direct replacement - No STC required

Left Hand.....P/N 05-04130 ..... ---
Right Hand.....P/N 05-04131 ..... ---

See website for eligibility list.

AP

CESSNA FLAP – ELEVATOR – RUDDER SKINS

More precise corrugation spacing and shape
No pre-drilled holes to misalign
Precisely formed and CNC cut to shape to match OEM skins
Direct replacement - No STC required

FLAP SKIN KIT COMPONENTS

Qty	MFG P/N	Description	Part No.	Price
KIT	SKN-KT-FLP9	Flap Skin Kit	05-13258	---
2 ea	MC0425000-10	Skin, Flap Upper	05-13244	---
2 ea	MC0425000-20	Skin, Flap Lower	05-13245	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP10	Flap Skin Kit	05-13259	---
2 ea	MC0426900-2	Skin, Flap Upper	05-13246	---
2 ea	MC0426900-4	Skin, Flap Lower	05-13247	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP11	Flap Skin Kit	05-13260	---
2 ea	MC0525000-10	Skin, Flap Upper	05-13246	---
2 ea	MC0525000-10	Skin, Flap Lower	05-13247	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP12	Flap Skin Kit	05-13261	---
2 ea	MC0523900-10	Skin, Flap Upper	05-13248	---
2 ea	MC0523900-20	Skin, Flap Lower	05-13250	---

ELEVATOR SKIN KIT COMPONENTS

Qty	MFG P/N	Description	Part No.	Price
KIT	SKN-KT-ELEV8	Elevator Skin Kit	05-13256	---
1 ea	MC0434134-4	Skin, Elevator, Lower, RH	05-13239	---
1 ea	MC0434135-10	Skin, Elevator Tab, Upper	05-13240	---
1 ea	MC0434135-11	Skin, Elevator Tab, Lower	05-13241	---
1 ea	MC0434140-2	Skin, Elevator, Upper, RH	05-13237	---
1 ea	MC0434141-1	Skin, Elevator, Upper, LH	05-13236	---
1 ea	MC0434142-3	Skin, Elevator, Lower, RH	05-13238	---
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-ELEV9	Elevator Skin Kit	05-13257	---
1 ea	MC0434134-4	Skin, Elevator, Lower, RH	05-13239	---
1 ea	MC0434135-15	Skin, Elevator Tab, Upper	05-13242	---
1 ea	MC0434135-16	Skin, Elevator Tab, Lower	05-13243	---
1 ea	MC0434140-2	Skin, Elevator, Upper, RH	05-13237	---
1 ea	MC0434141-1	Skin, Elevator, Upper, LH	05-13236	---
1 ea	MC0434142-3	Skin, Elevator, Lower, RH	05-13238	---

RUDDER SKIN KIT COMPONENTS

Qty	MFG Part No.	Description	Part No.	Price
KIT	SKN-KT-RUD6	Rudder Skin Kit	05-13262	---
1 ea	MC0433000-30	Skin, Rudder, LH	05-13252	---
1 ea	MC0433127	Skin, Rudder tab	05-13254	---

CESSNA RUDDER TIP

FAA-PMA replacement parts from Knots 2U are made from the highest quality hand laid fiberglass. This provides for superior strength, reduced weight, and long life. The latest technology resins are used to prevent warping and shrinkage that can happen with other fiberglass. Advanced tooling and pattern techniques assure a superior fit.
P/N 05-11965 ..... ---

CESSNA TAILCONE FAIRING

Fairing, Tailcone (Cable Covers), LH or RH. Small triangle at the front of the dorsal fin. White ABS plastic. Parts are trimmed for easy installation. Replaces Cessna part number 0530011-2.
P/N 05-11973 ..... ---

CESSNA DORSAL FIN FAIRING TIP

Dorsal Fin Faring Tip 28-16. Replaces Cessna part number 0531020-1. Small triangle at the front of the dorsal fin. White ABS plastic. Parts are trimmed for easy installation. Replaces Cessna part number 0531020-1.
P/N 05-11972 ..... ---

CESSNA STRUT FAIRING KIT

Strut Fairing Kit for Cessna. The tie-down bolt projects through the upper strut fairings. White ABS plastic. Parts are trimmed for easy installation. Replaces Cessna part numbers 0522150-1, 0522150-2, 0523047-1 and 0523047-2.
P/N 05-11967 ..... ---

CESSNA LANDING GEAR FAIRING KIT

Landing Gear Fairing Kit for Cessna Replacement part numbers 1741005-239 and 1741005-240.
P/N 05-11966 ..... ---

VISIT WWW.AIRCRAFTSPRUCE.COM FOR AIRCRAFT ELIGIBILITY CHART

VERTICAL FIN FITTING KITS FOR CESSNA'S

FAA-PMA approved for various Cessna 150 and 152 aircraft. Improved design for longer life and more reliability! This design incorporates geometry improvements focusing primarily on stress concentration reductions, and the implementation of a superior aluminum alloy that should result in increased life of the part. Complete installation kit.
Engineered for improved stress distribution.
Alodined for Corrosion resistance.
Single.....P/N 05-27520 ..... ---
Pair .....P/N 05-27521 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CESSNA STEERING RODS

These Cessna Steering Rods are better than the originals. Replace old, weak steering rods with these stainless steel, FAA-PMA approved steering rods and save up to $100 each.

Cessna Series	Serial Number	Part Number	Replaces Cessna P/N	Price Each
150	ALL	05-00273	0543022-3; L	---
152	ALL	05-00274	0543022-4; R	---
172,172A	28000 to 17247746	05-00275	0543022-1; L	---
		05-00276	0543022-2; R	---
172B,C	17247747 to 17249544	05-00589	0743008-1; L	---
		05-00590	0743008-2; R	---
172D, E, F, G, H, I, K, L, M, R172K	17247747 to 17249544 R1722000 to R1723454	05-00275	0543022-1; L	---
F172D, E, F, G, H, K, L, M, N, P, FP172, FR172E, F, G, H, J, K	F1720001 to F17202254 FP1720001 to FP1720003 FR17200001 to FP17200675	05-00276	0543022-2; R	---
175,175A/B/C	55001 to 17557119	05-00589	0743008-1; L	---
		05-00590	0743008-2; R	---
182, 182A/B/C/D	33000 to 53007 18253008 to 18253598	05-00589	0743008-1; L	---
		05-00590	0743008-2; R	---

CESSNA STEERING ROD BOOTS

Keep the exhaust and cold out of the cabin with these Kevlar/ Fiberglass FAA/PMA approved Steering Rod Boots. These will last much longer & are less expensive than original Cessna boots.
Note: Priced and sold per boot. 2 units are required per aircraft.

FAA/PMA approved Steering Rod Boot application chart for Cessna Model Series 150, 152, 172, 175, and 182 Aircraft.

Model	Serial No.	Part No.	Price
150 150A-M A150K-M F150F-M FA150K-L FRA150L-M	17001-59018 15059019-15079405 A1500001-A1500734 F1500001-F15001428 FA1500001-F1500120 FRA1500121-FRA1500336	05-00277	---
152 A152 F152 FA152	15279406-15286033 A1520735-A1521049 F15201429-F15201980 FA1520337-FA1520425	05-00277	---
172 172A-P F172D-P FP172 FR172E-K	28000-46754 46755-17276673 F1720001-F17202254 FP1720001-FP1720003 FR17200001-FR17200675	05-00279	---
175 175A-C	55001 – 56238 56239 – 17557119	05-00279	---
182 182A-D	33000-53007 18253008-18253598	05-00279	---

INTAKE HEAT SHIELD DEFLECTOR

This part replaces Cessna part number 0750121. This intake Heat Shield Deflector is vibration dampened to prevent cracking! It is made of polished stainless steel for better heat control. FAA approved.
P/N 05-02361 ..... ---

ELIGIBILITY LIST

Aircraft Models	Serial Numbers
175* A, B, C	56083 thru 17557118
P172	P17257120 thru P17257188
180 A, B, C, D, E, F, G, H, J, K	30000 thru 18053203
182 A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R	33000 thru 18268615
F182P,Q	F18200001 thru F18200169
A182J, K, L, M, N	A182-0001 thru A182-0148
T182	18267716 thru 18268615
185 A, B, C, D, E/A185E, F	185-0001 thru 18504448
185 A, B/A188, A, B	188-0001 thru 18803968T
T188C	T18803297T thru T18803968T
205, A	205-0001 thru 205-0577
206	206-0001thru 206-0275
U206 A, B, C, D, E, F, G	U206-0276 thru U20607020
P206 A, B, C, D, E,/TP206A, B, C, D, E	P206-0001 thru P20600647
TU206A, B, C, D, E, F, G	U206-0438 thru U20607020
207, A/T207, A	20700001 thru20700788
210 A, B, C, D, E, F, G, H, J, K, L, M, N, R/T210 K, L, M, N, R	57001 thru 21065009
P210N, R	P21000001 thru P21000874
T210G, H, J	T210-0198 thru T210-0454

Our P/N's are interchangeable with Cessna's P/N's; "AS" prefix denotes Aircraft Spruce! Call our parts specialists at Aircraft Spruce for part number assistance.

CESSNA TORQUE LINK SHIM KIT

Brass Nose Gear Torque Link Shim Kit for Cessna Aircraft
Features: • Only McFarlane has three shim sizes for a precision fit • Eliminates undampened torque link motion to prevent shimmy .....P/N 05-15394 ..... ---

MCFARLANE TRIM TAB ACTUATOR FOR CESSNA AIRCRAFT

This direct replacement trim tab actuator incorporates many design improvements. Longer lasting coatings are utilized for increased service life, smoother operation, and improved corrosion resistance.
The Trim Tab Actuator is manufactured with high strength stainless steel alloy that has been nitrocarburized for maximum wear, low friction, and smoother thread operation than the OEM part. The sprocket is made from stronger aluminum, then anodized for wear and corrosion protection. The known problems of original parts have been addressed and resolved with this new design.....P/N 05-27269 ..... ---

MCFARLANE RING PACK SUPPORT

• Stainless steel for corrosion resistance • PFTE composite-lined for smoother strut action • Liner holds oil for longer life • Easy on your chrome strut
P/N 05-27106 ..... ---

MCFARLANE STABILIZER JACKSCREW ACCESS COVER

05-27392 **05-27392** **05-27392**

Mcfarlane Stabilizer Jackscrew Access Cover
Features:
• FAA-PMA approved for Cessna: 180, 180A, B, C, D, E, F, G, H, J, K
• 185, 185 A, B, C, D, E, G, A185 E, F
• Quick and easy access to tail cone and jack screws
• Saves time
• Adds airplane value

Finish	Part Number	Price
Bare Finish	05-27390	---
Primer Finish	05-27391	---
Topcoat Finish	05-27392	---

CESSNA FUEL QUANTITY TRANSMITTERS

Saves hundreds of dollars in labor and kits and eliminates replacement of fuel quantity gages and wiring when not required. Engineered to be compatible with the original fuel quantity gage and wiring which uses time proven technology and reliability. Made from dupont viton, offering flexibility and fuel resistance at all temperature extremes.

Part Number	Description	Part No.	Price Ea.
AS0426517-1	Fuel Transmitter	05-00282	---
AS0523557-1	Fuel Transmitter	05-00283	---
AS0726110-1	Fuel Transmitter	05-00284	---
ASS1588-1	Gasket (Viton Fuel Trans.)	05-00285	---
ASS1588-2	Gasket (Viton Fuel Trans.)	05-00286	---
AS35010R10	Screw (5 Pack)	05-00287-5	---

CESSNA / PIPER FUEL QUANTITY TRANSMITTER KITS

These fuel quantity transmitters are direct replacements for the fuel quantity transmitter installed by Cessna when the aircraft was new. This saves hundreds of dollars in labor and kits and eliminates replacement of fuel quantity gauges and wiring when not required. These fuel quantity transmitters are engineered to be compatible with the original fuel quantity gauge and wiring which uses time proven technology for reliability. Each fuel quantity transmitter is manufactured using the new Stewart Warner thick film ceramic resistor technology. The resistor is made by coating a ceramic base with a semi-conductor, and then laser trimming it to a consistent resistance value. The benefits are longer life and increased accuracy. All components are thoroughly tested, ensuring your satisfaction with our product.

Mfg. Part No.	Kit Contents	Part No.	Price
FQT-KT-1	1 each Transmitter (MC0426517-1) 1 each Cover Gasket (C0523619-1) 1 each Gasket (MCS1588-1 5 each Screw Seal (MCS35010R10)	05-04109	---
FQT-KT-2	1 each Transmitter (MC0523557-1) 1 each Cover Gasket (MC0523619-1) 1 each Gasket (MCS1588-1) 5 each Screw Seal (MCS35010R10)	05-04110	---
FQTP-KT-1	1 each Transmitter (MC68101-02) 1 each Gasket (MC462-021) 5 each Screw/seal assemblies (MC1802)	05-04874	---
FQTP-KT-2	1 each Transmitter (MC68101-02) 1 each Gasket (MC461-931) 5 each Screw/seal assemblies (MC1802)	05-04875	---
FQT-KT-3	1 each Transmitter, 1 each Gasket (C0726110-1) 1 each Gasket (MCS1588-2) 25 each Screw Machine, 10-32 x 0.625	05-12944	---
FQT-KT-4	1 each Transmitter (MCC668002-0201) 1 each Gasket (MCS1588-1) 1 each Gasket (MCS1588-2) 25 each Screw Machine, 10-32 x 0.625	05-12945	---
FQT-KT-5	1 each Transmitter (MC0726110-1) 2 each Gasket (MCS1588-2) 25 each Screw Machine 10-32 x 0.625 (MS35207-264)	05-12946	---
FQT-KT-6	1 each Transmitter (MC0726110-1) 1 each Gasket (MCS1588-1) 25 each Screw Machine 10-32 x 0.625 (MS35207-264)	05-12947	---

CESSNA FUEL SCREEN STANDPIPE

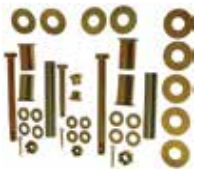
This FAA-PMA approved stainless steel Cessna Fuel Screen Standpipe is the last one you will need to buy. Improved design eliminates corrosion pits and stripped threads. 1963 and on..... P/N AS0756011-1 ..... ---

FUEL SELECTOR PLATE FOR CESSNAS

Before **After**

This new fuel selector plate is billet machined and anodized, with the text engraved on the plate. It is an efficient one-piece design which is easy to install & factory guaranteed. FAA-PMA approved.

Description	Part Number	Price
Cessna 172 - 37 Gallons	05-00227	---
Cessna 170 - 37 Gallons	05-00899	---
Cessna 172 - 36 Gallons	05-00901	---
Cessna 180 - 55 Gallons	05-00902	---
Cessna 180 - 60 Gallons	05-00903	---
Cessna 180 - 79 Gallons	05-00904	---
Cessna 172 - 84 Gallons	05-00905	---
Cessna 182 - 55 Gallons	05-00906	---



05-04427

CESSNA NOSE GEAR TORQUE LINK REPAIR KITS

This convenient kit includes all commonly replaced torque link parts. • Contains all FAA approved parts and standard hardware • Fits most single engine Cessna aircraft Please visit our website for kit components.

Description	Part Number	Price
TL-KT-1	05-04427	---
TL-KT-2	05-04619	---
TL-KT-4	05-04620	---
TL-KT-5	05-04621	---
TL-KT-6	05-04622	---
TL-KT-7	05-04623	---

CESSNA FUEL SELECTOR VALVES

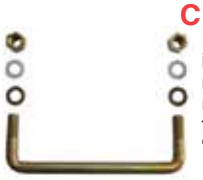
05-04298

05-04299

FAA PMA C120 & C140

Description	Model	Part No.	Price
Left/Right/Off	SHA200F202-120	05-04298	---
Left/Right/Both/off	SHA200F204-140	05-04299	---

LANDING GEAR U-BOLT FOR CESSNA AIRCRAFT



FAA approved ICA allows 1200 hours service life instead of 1000 hours as per SE78-68. Vacuum re-melt crankshaft steel alloy for extreme fatigue resistance, and rolled "J" threads instead of cut threads for twice the fatigue resistance.
"J" style nuts and washers included.
P/N 05-26710 ..... ---

VISIT WWW.AIRCRAFTSPRUCE.COM FOR AIRCRAFT ELIGIBILITY CHART

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CESSNA SEAT RAILS, ROLLERS, WASHERS, & BUSHINGS

Seat Rails

Rollers

These FAA-PMA replacement seat parts were developed to assist in complying with the parts replacement requirements of A.D. 87-20-03. This A.D. requires the periodic inspection and replacement of seat components of the entire Cessna light aircraft fleet. Our Parts are direct replacements for the wear related seat components. These seat parts are superior to the O.E.M. parts in many ways. Our rollers are fabricated from molydisulfide filled nylons for improved strength and self lubrication. All rollers are fully machined from extruded stock for finer surface finishes and higher strength. Our wear washers are tougher with far better wear and aging resistance. Seat rails were carefully engineered with small improvements for added strength, longer life, and easier installation without any sacrifice of full interchangeability with the O.E.M. parts.

Description	Part No.	Price Ea.	Description	Part No.	Price Ea.
AS0410219-1	05-00327	---	AS0711693-2	05-00379	---
AS0410219-2	05-00328	---	AS0711693-4	05-00380	---
AS0410230-2	05-00329	---	AS0711693-6	05-00381	---
AS0410230-3	05-00341	---	AS0711693-7	05-00382	---
AS0410235-1	05-00342	---	AS0711693-8	05-00383	---
AS0410235-2	05-00343	---	AS0711693-9	05-00384	---
AS0410235-6	05-00344	---	AS1210025-2	05-00385	---
AS0411545-1	05-00345	---	AS1210025-3	05-00386	---
AS0411545-2	05-00346	---	AS1210408-1	05-00387	---
AS0411545-3	05-00347	---	AS1210408-12	05-00388	---
AS0411545-4	05-00348	---	AS1210408-14	05-00389	---
AS0511000-14	05-00331	---	AS1210408-15	05-00390	---
AS0511000-15	05-00332	---	AS1210408-16	05-00391	---
AS0511000-64	05-00333	---	AS1210408-17	05-00392	---
AS0511000-68	05-00334	---	AS1210408-18	05-00393	---
AS0511000-69	05-00335	---	AS1210408-21	05-00394	---
AS0511000-70	05-00336	---	AS1210408-22	05-00395	---
AS0511240-10	05-00337	---	AS1210408-23	05-00396	---
AS0511240-11	05-00338	---	AS1210408-24	05-00397	---
AS0511240-12	05-00339	---	AS1210408-4	05-00398	---
AS0511240-14	05-00349	---	AS1210408-5	05-00399	---
AS0511240-15	05-00351	---	AS1210408-6	05-00401	---
AS0511240-2	05-00352	---	AS1210408-8	05-00402	---
AS0511240-3	05-00353	---	AS1210408-9	05-00403	---
AS0511240-4	05-00354	---	AS1210520-11	05-00404	---
AS0511240-5	05-00355	---	AS1210520-12	05-00405	---
AS0511240-6	05-00356	---	AS1210520-15	05-00406	---
AS0511240-7	05-00357	---	AS1210520-16	05-00407	---
AS0511240-8	05-00358	---	AS1210520-2	05-00408	---
AS0511240-9	05-00359	---	AS1210520-3	05-00409	---
AS0511243-4	05-00362	---	AS1210520-4	05-00410	---
AS0511243-5	05-00363	---	AS1210520-9	05-00411	---
AS0511243-6	05-00364	---	AS1211514-1	05-00412	---
AS0511293-1	05-00365	---	AS1211514-2	05-00413	---
AS0511293-2	05-00366	---	AS2414002-1	05-00414	---
AS0511293-3	05-00367	---	AS2414002-2	05-00415	---
AS0511293-4	05-00368	---	ASS1551-1	05-00420-4	---
AS0611134-2	05-00369	---	ASS1554-1 Qty-8	05-00421	---
AS0611134-3	05-00370	---	AS1714000-22	05-00419	---
AS0710618-1	05-00371	---	AS1714000-41	05-00422	---
AS0710618-4	05-00372	---	AS0311310	05-00325	---
AS0710618-5	05-00373	---	AS0311586	05-00326	---
AS0710618-6	05-00374	---	AS0311715-3	05-00416	---
AS0710658-2	05-00375	---	AS0311715-4	05-00417	---
AS0711693-1	05-00376	---	AS43DD1-9	05-00432	---
AS0711693-10	05-00377	---	AS1613423-3	05-00418	---
AS0711693-11	05-00378	---	AS1414104-54	05-00424	---

SEAT KIT COMPONENTS (1 SEAT)

All rollers are fully machined from extruded stock for a finer surface finish and higher strength. The bushings are machined from alloy steel for longer life and greater wear resistance. The wear washers are made from a super tough acetyl plastic and have far better wear properties and resistance to aging.

Kit No.	Description	Qty.	Part No.	Price
05-00425	Full articulating seat (2 crank handles).	Washers 8	AS1714000-22	---
		Rollers 4	ASS1704-1	
		Bushings 4	AS1414104-54	
05-00427	Standard seat (1 or no crank handles).	Washers 8	ASS1554-1	---
		Rollers 4	ASS1551-1	
		Bushings 4	AS1414104-54	
05-00428	1946-1962 and all 150-152	Rollers 4	AS0311310	---
		Bushings 4	AS0311586	

For Cessna Roller Kit 141410-212 use:
- (1) Roller (P/N ASS155-1)
- (1) Bushing (P/N AS1414104-54)
- (2) Washers (P/N ASS1554-1)

These parts are generally used on the standard seats

For Cessna Roller Kit 1714000K200 use:
- (1) Roller (P/N ASS1704-1)
- (1) Bushing (P/N AS1414104-54)
- (2) Washers (P/N AS1714000-22)

These parts are generally used on the infinitely adjustable seats.

FAA-PMA Application chart for replacement parts for Cessna seats.

Description	Part No.	Model Series Eligible
AS0311310 roller	05-00325	150, 152, 170, 172, 175, 180, 182, 185, 195, 210
AS0311586 bushing	05-00326	
ASS1554-1 washer	05-00421	172, 180, 182, 185, 188, 205, 206, 207, 210
AS1714000-22 washer	05-00419	
AS1714000-41 washer	05-00422	
AS1414104-22 bushing	05-00323	
ASS1704-1 roller	05-00423	
ASS1551-1 roller	05-00420	

CESSNA FLAP ROLLER KITS

FLP-KT-1

FLP-KT-2

Flap attachment kits are available for Cessna aircraft from Cessna 150 thru T210. Each kit contains FAA-PMA replacement rollers, bushings, and spacers for the flap attachment of one airplane. Our ASS1450-5N12-050 shims are stainless steel for better corrosion resistance. Individual FAA-PMA components are available on request.

Model	Serial No.	Year	Kit No.	Part No.	Kit Price
150	17001-15071128	59-69	FLP-KT-1	05-00317	---
150	15071129 & on	70-77	FLP-KT-2	05-00318	---
152	15279406 - 15285564	78-80	FLP-KT-2	05-00318	---
152	15285565 & on	81 & on	FLP-KT-3	05-00319	---
F152	F15201429-F15201908	78-80	FLP-KT-2	05-00318	---
F152	F15201909 & on	81 & on	FLP-KT-3	05-00319	---
A152	A1520735-A1521014	78-80	FLP-KT-2	05-00318	---
A152	A1521015 & on	81 on	FLP-KT-3	05-00319	---
FA152	FA1520337-FA1520387	78-80	FLP-KT-2	05-00318	---
FA152	FA1520388 & on	81 & on	FLP-KT-3	05-00319	---
170B	ALL	52-54	FLP-KT-1	05-00317	---
172	28000-17249544	55-62	FLP-KT-1	05-00317	---
172	17249545-17274009	63-80	FLP-KT-2	05-00318	---
172	17274010 & on	81 & on	FLP-KT-3	05-00319	---
177	ALL	68-78	FLP-KT-4	05-00321	---
175	ALL	58-62	FLP-KT-1	05-00317	---
180	ALL	53-82	FLP-KT-1	05-00317	---
182	33000-18253598	56-62	FLP-KT-1	05-00317	---
182	18253599 & on	63 & on	FLP-KT-3	05-00319	---
185	ALL	61-82	FLP-KT-1	05-00317	---
188	ALL	66-84	FLP-KT-3	05-00319	---
205	ALL	63-64	FLP-KT-1	05-00317	---
206	2060001-20601568	64-70	FLP-KT-4	05-00321	---
207	ALL	69-84	FLP-KT-4	05-00321	---
210	57001-21058220	60-63	FLP-KT-1	05-00317	---
210	21058819 & on	80 & on	FLP-KT-7	05-00324	---
T210	T2100001-T2100197	64-66	FLP-KT-6	05-00323	---

ASS14503510-032 Wear washer kit (8 req/kit) .P/N 05-00587 ..... **--- ea.**

AP

SEAT RAIL WEAR GAUGE FOR CESSNA AIRCRAFT

For checking seat rail wear limits as per FAA A.D. 87-20-03, Effective 09/24-/1990 Seat Rail Directive The gauge is to be used for inspection of the Cessna seat rail wear. This gauge is designed to measure the actual radius wear near the seat stop holes. Notice the different sized steps in each corner. P/N 05-04428 ..... ---

CESSNA FLAP ROLLER UPGRADE KIT FLP-KT-9U

Upgrade kits include: rollers, bushings, shims, spacers where required, MCSK100 Flap Service Kits, wear washers, a copy of SEB95-3 Rev 1, and hardware (nuts, bolts, washers). Part numbers for the upgrade kits end in "U" SEB95-3 Rev 1 is not applicable to 172R,S, 182S,T, T182T, 206H, T206H, 208, 336 and 337 aircraft. Flap upgrade kits contain nuts, bolts and washers for several aircraft models. The installer must determine the correct nut, bolt and washer combination for each installation. Each flap roller kit contains enough components for one aircraft. **See our website for Aircraft Eligibility list** .....P/N 01-01345 ..... ---

SEAT ROLLER HOUSING GAUGE

Aircraft Spruce now offers a seat roller housing measuring tool for Cessna aircraft. This gauge is designed to facilitate inspection of seat roller housings for wear as required by mandatory FAA AD 2011-10-09. This gauge simplifies determining whether the housing is in or out of tolerance by allowing the areas of concern to be gauged as opposed to measuring individual attributes of each housing with calipers. Results are positive and quick with this gauge.....P/N 05-06819 ..... ---

CESSNA SEAT RAIL TEMPLATES

These template blanks are used to transfer holes from the old seat rail to the new seat rail when replacing Cessna seat rails. These templates are economical and convenient to use. One per seat rail is required. For seat rail series AS511240, AS511243, and AS24114002 use SRTEM2. All other seat rail series can use SRTEM1. **Note**: Models 150-152 do not require templates as the screw holes are predrilled. Model 177 cardinal seat rails require (2) SRTEM1 templates per rail.

Dimensions: • SRTEM1-1.5" x 38" x .025" • SRTEM2-2.25" x 30" x .025"

SRTEM1 .....P/N 05-00449 ..... ---
SRTEM2 .....P/N 05-00450 ..... ---

SEAT STOP KITS FOR CESSNAS

These seat stops and related hardware are available in convenient kits for your aircraft. Call for the correct kit part no. for your Cessna aircraft.

Description	Part Number	Price
Kit #1 (1 ea. AS0713074-1, 1 ea. MS24665-132-1, 1 ea. MS20392-1C21)	05-00580	---
Kit #2 (1 ea. AS0511242-1, 1 ea. MS35265-41)	05-00581	---
Kit #3 (1 ea. AS0713074-1, 1 ea. MS24665-132, 1 ea. MS20392-1C21, 2 ea. NAS43DD1-9)	05-00582	---

CESSNA OVERHEAD LED RL6870-1

Cessna Overhead LED RL6870-1, 28V. Applicable Aircraft: • Skyhawk • Skylane • Stationair
P/N 05-29001 ..... ---

CESSNA SEAT BACK ADJUST BELLCRANK ASSEMBLY 0514030-4 FAA/PMA

Features • Replacement for Cessna p/n 0514030-4 • FITS: ARTICULATING SEATS • 172/180/182/185/205/206/207/210/337 • ****Recommendation is to replace as a pair****
P/N 13-25689 ..... ---

CESSNA SEAT ROLLER KIT 3

The nylon roller(s) are made from the highest quality Nylatron® which offers greater wear resistance, high mechanical strength, lower surface friction, stiffness, hardness, and greater rigidity which all adds up to a superior and durable/long service life roller. The steel bushing is made from super tough moly chrome steel with a clear zinc plating finish for corrosion resistance. P/N 13-25661 ..... ---

RUDDER PEDALS FOR CESSNA AIRCRAFT

COMPLETELY NEW RUDDER PEDAL

- Less money and longer life!
- Bronze bushings at the pivot points resist wear and vibration for longer pedal life.
- Precision cast heat treated aluminum alloy
- Power coat finish for durability and corrosion protection.
- FAA-PMA direct replacement for Cessna (Part #1460320-1)

Model AP2000-01 ....P/N 05-04165 ..... ---

SEAT STOPPERS

Insert in the seat track before flight to secure pilot and passenger seats and prevent any aft movement if the seat lock fails. Effective in all flight conditions and in turbulence. The o-ring is sized to ensure a snug fit in the seat track. Easy to reach back, insert and remove from the seat track when you're seated. Designed for use in the Piper Aerostar when the EZ-Glide upgrade is incorporated but compatible with any aircraft using 210078 or equivalent seat track. Make it your key fob and never have to search for your keys again! Package of 1.....P/N 05-14950 ..... ---

SAF-T-STOP

Saf-T-Stop is an auxiliary seat stop mechanism approved by the FAA for use with Cessna seat track A. D. #87-20-03. Installs easily, sliding over seat track. Approved for: Cessna 150, 152, 172, R172, 175, 180, 182, 185, 190, 205, 206, 207, 210, 303, 337. Not a seat lock, Saf-T-Stop is designed to restrict rearward motion if the seat lock fails.....P/N 13-18510 ..... ---

CESSNA TAIL SLIDE

This Patented Cessna Tail slide is designed to slide across the surface and gently lift the tail at the same time. It attaches to the original point and the bulkhead forward providing extra strength and the lifting action as opposed to the factory ring digging in and pulling. It also cradles the rear bulkhead and adds considerable strength preventing crushing .....P/N 06-03274 ..... ---

CAM STYLE SEAT LOCK

A unique cam style lock that locks in place when the handle is firmly pressed down and makes contact with the seat rails. Version 2.1 is fully adjustable to accommodate between different seat rail manufacturers, specifically Cessna and McFarlane. Adjustments are also useful when slight wear is experienced on seat rails. This product has been FAA-PMA approved. P/N 05-22220 ..... ---

FUEL STRAINER TOP ASSEMBLY FOR CESSNA AIRCRAFT

Applicable to many Cessna aircraft models. Assembly, part number MC0756005-2 includes multiple improvements to address corrosion related service problems with the original Cessna housing. The fuel inlet tube attached has also been improved with redundant methods of attachment to ensure a reliable, secure fit.FAA Approved.....P/N 05-07238 ..... ---

CESSNA OVERHEAD LED RL6870-1

• 1 each A0750161-22 Clamp without Pin (not sold separately)• 1 each A0750161-24 Clamp with Pin (not sold separately)• 1 bag of assorted hardware P/N 05-28998 ..... ---

MCFARLANE CESSNA DOOR HANDLE ASSEMBLY MC0711861-1

FAA-PMA approved for many Cessna 170 thru 337 aircraft. Substantially stronger and lasts longer! Machined billet aluminum construction. Precision cut spline for better fit with less backlash. Easier installation – no more retaining clip! Replacement washers available P/N MCS1438-16. Available in multiple colors, including black, gray, or aluminum!

MC0711861-1-A Aluminum .....P/N 05-29003 ..... ---
MC0711861-1-G Grey.....P/N 05-29005 ..... ---
MC0711861-1-B Black .....P/N 05-29004 ..... ---

AVFAB CESSNA 340 TAIL CONE STINGER

Avfab's PMA approved fiberglass Cessna 340 Tail Cone Stinger provides customers with a robust and economical replacement option of their original Cessna tail cone. Our Tail Cone Stinger incorporates dual inspection panels in the lower portion of the ventral fin, thereby eliminating the need for removal of the tail cone at each inspection. This saves time and money annually.....P/N 05-28842 ..... ---

AVFAB CESSNA SEAT TRACK

Safety comes first, and having a solid foundation is paramount to that principle. Our FAA/PMA Cessna Seat Track is a fraction of the OEM cost. Replaces Cessna OEM PN#s 0812744-3, 0812774-3. FAA Parts Manufacture Approval and Supplemental Type Certificate, STC, (eliminating the need for field approval). P/N 05-28843 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FUEL STRAINER SEAL KIT FOR CESSNA

Kit contains: Gasket and 3 O- Rings Approved for Cessna models: 180H*, J, K

P/N 05-01705 ..... ---

FUEL STRAINER SEAL KIT FOR CESSNA AIRCRAFT

For Cessna models using aluminum Gasket and "O" Rings.

Kit contains: Gasket and 3 O- Rings.

P/N 06-02463 ..... ---

FS-KT-2 FUEL BOWL KIT (FAA-PMA)

Kit contains:

- 1 MC0756009-8 Gasket
- 1 MC0756008-1 Fuel bowl
- 1 MCM83248/1-010 O-ring
- 1 MCM83248/1-111 O-ring
- 1 MCM83248/1-138 O-ring
- 1 MC0756015-1 Washer
- 1 MCS1573-3 Nut

P/N 05-04425 ..... ---

FS-KT-3 FUEL STRAINER REBUILD KITS

Kit contains:

- 1 FS-KT-2 Fuel Bowl Kit
- 1 0756012-1 Spring (Fuel Strainer)
- 1 MC0756010-11 Plunger (Gascolator Drain)
- 1 MC0756011-1 Standpipe (Fuel Strainer, S.S.)
- 2 MCS1450-27A7-032 Washer (Gascolator)

P/N 05-04426 ..... ---

FUEL STRAINER PLUNGER

MC0756010-11 • Special electro polished shaft for longer o-ring life. • McFarlane's blue Viton rubber tip will outlast the original in any fuel!

P/N 05-04424 ..... ---

FUEL STRAINER ASSEMBLY

Kit contains:

- Gasket Kit
- Fuel Bowl
- 2 Washers
- Nut
- Plunger
- Standpipe
- Spring
- Top Assembly.....P/N 05-04111 ..... ---

FUEL STRAINER AND CABLE KIT

Kit contains:

- 1 FS-KT-1 Gasket kit
- 1 MC0756008-1 Fuel bowl
- 1 MC0756015-1 Washer
- 1 MCS1573-3 Nut
- 1 MC0756010-11 Plunger
- 1 MC0756011-1 Standpipe
- 2 MCS1450-27A7-032 Washer
- 1 0756012-1 Spring
- 1 MC0756005-2 Top Assembly
- 1 0756009-1 Filter
- 1 MCS1517-7 Strainer drain cable

P/N 05-04112 ..... ---

FUEL STRAINER BOWL

Engineered to last! Manufactured using improved materials for added strength and gold anodized for corrosion resistance. Computer machined (not die cast) .....P/N 05-01704 ..... ---

CESSNA FLAP SWITCH

Cessna Flap Switch S1661-1 .....P/N 05-26742 ..... ---

AEROTAR BELLCRANK FOR CESSNA

Aerotar 0514030-4 Bellcrank for Cessna.

P/N 08-15787 ..... ---

CESSNA 177RG FUEL RESERVOIR DRAIN PLUNGER

In addition to the Fuel Strainer Plunger McFarlane now has the Fuel Reservoir Plunger for the Cessna Cardinal 177 RG aircrarft.

P/N 05-04613 ..... ---

CESSNA 208 CREW LADDER COMPONENTS

Airforms has been awarded FAA PMA approvals for a number of the components for the C208/208B Crew Ladder Assembly, including left hand and right hand Upper and Lower Arm Assembles, Upper and Lower Step Assemblies, Bracket Assemblies, Spacers and replacement tread for the steps

OEM Part No.	Type of Hinge	Part No.	Price
AF2606033-10	Step Assembly, Lower with Tread	05-26618	---
AF2606033-12	Step Assembly, Upper with Tread	05-26619	---
AF2606033-14	Tread, Tread Step	05-26621	---
AF2606033-15	Tread, Upper Step	05-26622	---
AF2606033-36	Bracket Assembly, Left Hand	05-26624	---
AF2606033-37	Bracket Assembly, Right Hand	05-26625	---
AF2606033-43	Arm Assembly, Upper, Left Hand	05-26626	---
AF2606033-44	Arm Assembly, Upper, Right Hand	05-26627	---
AF2606033-2	Arm Assembly, Lower, Left Hand	05-26623	---
AF2606033-4	Arm Assembly, Lower, Right Hand	05-26631	---
AF133-4P28	Spacers, Bracket	05-26628	---
AF133-4P32	Spacers, Arm	05-26629	---

FUEL STRAINER STANDPIPE

The last one you will buy! Stainless steel, No more corrosion pits or stripped threads, Costs less! .....P/N 05-00281 ..... ---

CESSNA ROD ENDS

Description	Part Number	Price
Cessna Rod End S1105-4	06-00685	---
Cessna Rod End S1819-3	05-01819-3	---

FLAP ROLLER INSTALL TOOL 970

Makes installation of the aft flap roller, bushing and washers easy. Holds parts in alignment while inserting the bolt. Long handle allows access through the small inspection openings. Cessna 150 thru 210 .....P/N 05-04764 ..... ---

CESSNA 182 GROSS WEIGHT INCREASE STC

A Supplemental Type Certificate (STC) that will increase the useful load of a Cessna 182P or 182Q by 150 to 160 pounds, and the ramp weight (in most cases) by 160 pounds. This STC requires no parts, no modifications, and no installation labor costs.

P/N 05-04889 ..... ---

AP

RUDDER AND ELEVATOR BUSHING KITS FOR CESSNA

These kits include two bushing sizes for each hinge location. This allows a selective fit and solves the common Cessna fit and interference problems. • Hardened corrosion resistant stainless steel. • Cessna models 120 thru 177 • All components are also available separately.

Model	Elevator Bushing Kit	Rudder Bushing Kit
120, 140, 140A (Bushing)	MC0422215	MC0431119K
150, 150A, B, C, D, E	EBC-KT-1	RBC-KT-1
150F, G, H, J	EBC-KT-1	RBC-KT-2
150K*, A150K* Eligibility Note 1 (150K S/N 15071129 THRU 15071621; A150K S/N A1500001 THRU A1500129)	EBC-KT-1	RBC-KT-3
150K*, L,M, A150K*, L,M Eligibility Note 2 (150K S/N 15071622 THRU 15072003; A150K S/N A1500130 THRU A1500226)	EBC-KT-2	RBC-KT-3
A-150L, A-A150L	EBC-KT-2	RBC-KT-3
F150F,G,H,J	EBC-KT-1	RBC-KT-2
F150K, L*, FA150K* Eligibility Note 3 (F150L S/N 15000659 THRU F15000699; FA150K S/N FA1500001 THRU FA1500039)	EBC-KT-1	RBC-KT-3
F150L*, M, FA150K*,L,M Eligibility Note 4 (F150L S/N 15000700 THRU F15001143; F150K S/N FA1500040 THRU FA1500081)	EBC-KT-2	RBC-KT-3
FRA150L, M	EBC-KT-2	RBC-KT-3
152*, A152* Eligibility Note 5 (152 S/N 15279406 THRU 15285833; A152 S/N A1520735 THRU A1521025)	EBC-KT-3	RBC-KT-3
152*, A152* Eligibility Note 6 (152 S/N 15285834 THRU 15286033; A152 S/N A1521026 THRU A1521049)	EBC-KT-4	RBC-KT-3
F152*, FA152* Note Eligibility Note 7 (F152 S/N 15201429 THRU F15201943; FA152 S/N FA1520337 THRU FA15203879)	EBC-KT-3	RBC-KT-3
F152*, FA152* Eligibility Note 8 (F152 S/N F1501944 THRU F15201980; FA152 S/N FA1520388 THRU FA1520425)	EBC-KT-4	RBC-KT-3
172, 175	EBC-KT-5	RBC-KT-4
172A,B,C* 175A,B,C* Eligibility Note 9 (172C S/N 17248735 THRU 17249085; 175C S/N 17557003 THRU17557064)	EBC-KT-5	RBC-KT-5
172C*,175C* Eligibility Note 10 (172C S/N 17249086 THRU 17249544; 175C S/N 17557065 THRU 17557119)	EBC-KT-5	RBC-KT-6
172D, E, F, G, H, I, K, L, M, N, P* Eligibility Note 11 (172P S/N 17274010 THRU 17275963)	EBC-KT-5	RBC-KT-6
172P*, Q, R, S Eligibility Note 12 (172P S/N 17275964 THRU 17276654)	EBC-KT-5	RBC-KT-7
172RG, P172D, R172K	EBC-KT-5	RBC-KT-6
F172D, E, F, G, H, K, L, M, N, P* Eligibility Note 13 (172P S/N F17202040 THRU F17202208)	EBC-KT-5	RBC-KT-6
F172P* Note Eligibility Note 14 (172P S/N F17202209 THRU F17202254)	EBC-KT-5	RBC-KT-7
F172, FR172 E, F, G, H, J, K	EBC-KT-5	RBC-KT-6
177,177 A, B, 177 RG, F177 RG	-	MC0532104K

Unless otherwise noted, approval is for all serial numbers for each model listed. The eligibility for the kits also applies to the component bushings and bearings.

ELEVATOR BUSHING KIT COMPONENTS:

2 Bearings, 2 Bushings, 2 Bolts, 2 Washers, 2 Nuts, and 2 Pins.

EBC-KT-1 .....P/N 05-04576 ..... ---
EBC-KT-2 .....P/N 05-04577 ..... ---
EBC-KT-3 .....P/N 05-04578 ..... ---
EBC-KT-4 .....P/N 05-04579 ..... ---
EBC-KT-5 .....P/N 05-04580 ..... ---

RUDDER BUSHING KIT COMPONENTS:

2 Bearings, 2 Bushings, 2 Bolts, 2 Washers, 2 Nuts, and 2 Pins.

RBC-KT-1 .....P/N 05-04569 ..... ---
RBC-KT-2 .....P/N 05-04570 ..... ---
RBC-KT-3 .....P/N 05-04571 ..... ---
RBC-KT-4 .....P/N 05-04572 ..... ---
RBC-KT-5 .....P/N 05-04573 ..... ---
RBC-KT-6 .....P/N 05-04574 ..... ---
RBC-KT-7 .....P/N 05-04575 ..... ---

ELEVATOR & RUDDER HINGE BEARING TOOL

This unique tool is specifically designed to prevent damage when installing or removing sintered bronze elevator and rudder hinge bearings in Cessna aircraft. Seven piece kit for common bearing sizes. Heat treated stainless steel will last a lifetime. Kit comes in a convenient storage pouch.....P/N 05-04869 ..... ---

CONTROL YOKE UNIVERSAL JOINTS

A universal joint attaches to each control yoke shaft behind the instrument panel. Replacement of the universal joint is recommended if any free motion or rust around the joint pivots is detected.

CESSNA CONTROL YOKE UNIVERSAL JOINT FAA-PMA

MC0411257 - A universal joint attaches to each control yoke shaft behind the instrument panel. Slack or roughness in control yoke motion commonly indicates excess universal joint wear or corrosion that may necessitate replacement. Includes protective sleeve.
• Restores safe, responsive control.
• Cessna models 120 thru 210A.....P/N 05-04558 ..... ---

SLEEVE, PIN RETENTION FAA-PMA

MC6183 - A universal joint attaches to each control yoke shaft behind the instrument panel. Slack or roughness in control yoke motion commonly indicates excess universal joint wear or corrosion that may necessitate replacement.
The universal joints and the sleeve are available separately or together in the kit UJC-KT-1 for Cessna models 150 thru A185. Each convenient kit also includes installation hardware.
P/N 05-04559 ..... ---

BLUE SKY LATCH FOR CESSNAS

Install it right on the plane. Simply dri ll out the two rivets holding your old latch system on your door. You will use these two same holes to install the Blue Sky Latch. The latch is made from TPE (thermal plastic rubber), it has excellent weather ability, and stands up to extreme temperatures. Next use a hack saw blade and cut off that point on your door stem. Then use a small hammer and tap the strike on the end. Align your door using the phillips head adjustment on your door stem. You're done. The Thermal plastic rubber acts a bumper as well as a latch. You get all the hardware including structural AN screws and elastic stop nuts in the kit. Step by Step installation guide with photos showing how easy it is to install.
C150 & 152..... P/N 05-04563.....---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CESSNA BEARING ELEVATOR S1003-29A

FAA-PMA Approved.
Please check your Owner's Manual for Eligibility.
P/N 06-02538 ..... ---

CESSNA WINDOW LATCH ASSEMBLIES

208 Window Latch Aircraft Assembly .....P/N 06-02522 ..... ---
176 Window Latch Aircraft Assembly .....P/N 06-02523 ..... ---

WASHER FUEL BOWL FOR CESSNA AIRCRAFT

Washer Fuel Bowl for Cessna Aircraft - MC0756015-1.
P/N 01-01354 ..... ---

CESSNA UNIVERSAL JOINT KIT

A universal joint attaches to each control yoke shaft behind the instrument panel. Replacement of the universal joint is recommended if any free motion or rust around the joint pivots is detected. McFarlane also has FAA-PMA approval for the protection sleeve that slides over the universal joint to reduce vibration wear and act as a safety device. The sleeve is included with every MC0411257 universal joint. Each convenient kit includes nuts and two bolt sizes; only two of the four bolts provided are required when installing the universal joint.....P/N 05-22942 ..... ---

SEE OUR WEBSITE FOR AIRCRAFT ELIGIBILITY LIST.

CESSNA CITATION MAIN GEAR DOOR HINGE PIN

Cessna Citation main gear door hinge pin. Model 550 and 560. PMA.
P/N 05-12492 ..... ---

CESSNA O-RING NOSE STRUT

MCS1628-329 Cessna O-Ring Nose Strut. FAA-PMA.
P/N 06-01586 ..... ---

S2418-1 CESSNA SCRAPER RING NOSE STRUT

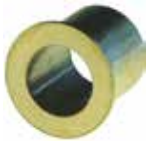
S2418-1 Cessna Scraper, Ring, Nose Strut. FAA-PMA
P/N 06-01588 ..... ---

BRASS SHIM TORQUE LINK

FAA-PMA APPROVED

Eliminates undampened torque link motion to prevent shimmy.

Part No.	Cessna Part No.	Thickness	Price ea
05-00429	S1450-6B14-010	.010"	---
05-00430	S1450-6B14-007	.007"	---
05-00431	S1450-6B14-005	.005"	---



CESSNA BEARING FIN S1004-42A

FAA-PMA Approved. Please check your Owner's Manual for Eligibility .....P/N 06-02539 ..... ---

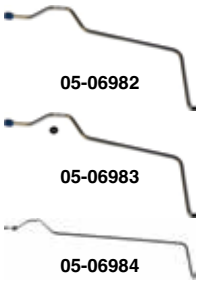
150/152 SEAT RAIL SCREW KIT SR150-SCREW-KIT

This is screw kit specifically for the Cessna 150/152 seat rails. This #10 Structural Screw Kit contains all screws and nuts required to install four seat rails. Kit Contains: 40 MS27039-1-08 Screw 10-32 x .531, 2 MS27039-1-09 Screw 10-32 x .594, 2 MS27039-1-17 Screw 10-32 x 1.094, 40 MS21044N3 Nut, Nylon Lock..... P/N 05-04107..... ---

CESSNA MOTOR MOUNT BLOCK LOCK WASHER

One side is embossed with a surface texture for improved locking strength and to make sure the washer does not slip while tightening. FAA approved using stronger material than the original, allowing the standard washer to be eliminated. *Designed with six tabs instead of two.*Cessna 180, 182, 185, 188, 205, 206, 207, 210, 310, 320, 411, and 414 model aircraft.....P/N 05-01742 ..... ---

CESSNA FUEL VENT LINES



We now have the improved fuel vent lines approved for many additional Cessna 150, 172, and 175 series aircraft. Parts ending with a "K" suffix indicate the inclusion of a rubber grommet, p/n MS3548-14, and hose, p/n MCS1495-8. **Features**: • Stops environmental and asphalt damage • Fly with known full tanks • Extends useful range • FAA-PMA direct replacement – No STC or 337 for needed

Model	Part No.	Price
MC0523559-6	05-06982	---
MC0523559-6K	05-06983	---
MC0523559-8	05-06984	---
MS0523559-8K	05-06985	---

CESSNA S1878-1 STUD TRIMOUNT

Cessna S1878-1 Stud Trimount.
P/N 06-02839 ..... ---

MC1243426-2 UPPER TORQUE LINK ASSEMBLY

A stronger upper torque link for Cessna 210 Aircraft ..... P/N 05-22403.....---

CARAVAN SPOILER HINGES

FAA-PMA direct replacement. Eligible for all Cessna Caravan 208,208B. Selective fit components. Cadmium plated stainless pins and anodized aluminum hinges for better corrosion resistance. No looseness in the hinge to start vibration wear.

Description	Part No.	Price
MC2622187-R Hinge, Spoiler, RH TAB	05-17644	---
MC2622187-L Hinge, Spoiler, LH TAB	05-17648	---

CESSNA SPACERS

Spacer sleeve: made of aluminum alloy 2024 overall
P/N 06-00639 ..... ---

CESSNA STUDS

S115-32 Cessna Stud .....P/N 06-02841 ..... ---
S115-35 Cessna Stud .....P/N 06-02842 ..... ---

ROLLER HOUSINGS FOR CESSNA

McFarlane Part No.	Spruce Part No.	Description	Price
MC0700645-1	05-15011	Left Seat Roller Housing	---
MC0700645-2	05-15010	Right Seat Roller Housing	---
MC0700645-3	05-15009	Left Seat Roller Housing	---
MC0700645-4	05-15008	Right Seat Roller Housing	---
MC1200603-38	05-15012	Right Seat Roller Housing	---
MC1200603-41	05-15015	Left Seat Roller Housing	---
MC1200603-42	05-15014	Right Seat Roller Housing	---
MC1414104-25	05-15001	Left Seat Roller Housing	---
MC1414104-39	05-15002	Left Seat Roller Housing	---
MC1414104-40	05-14996	Right Seat Roller Housing	---

McFarlane Part No.	Spruce Part No.	Description	Price
MC1414104-41	05-14995	Left Seat Roller Housing	---
MC1414104-42	05-14994	Right Seat Roller Housing	---
MC1414104-61	05-15004	Right Seat Roller Housing	---
MC1414104-65	05-15007	Right Seat Roller Housing	---
MC1414104-67	05-14997	Left Seat Roller Housing	---
MC1414104-71	05-14999	Left Seat Roller Housing	---
MC1414104-72	05-15005	Right Seat Roller Housing	---
MC1714000-33	05-15017	Left Seat Roller Housing	---
MC1414104-8	05-15041	Universal Bracket for Cessna Seat Roller Housings	---
See the website for complete application information.			

CARAVAN TORQUE LINKS

Nose gear torque links for Cessna 208/208B Caravan aircraft. These durable and finely machined replacement torque links are designed to meet the rigors of the Alaskan bush.

Description	Part Number	Price
Torque Link Upper	05-12925	---
Torque Link Lower	05-12926	---

PASSENGER DOOR STEP FOR CESSNA CARAVAN

Engineered for increased longevity and constructed solely from aluminum. No more delamination. Direct replacement for all positions, Cessna P/Ns 2617076-1 (lower), 2617076-10 (upper), and 2617076-11 (middle)..... P/N 05-22906 ..... ---

FLAP TRACKS FOR CESSNA CARAVAN

Replace worn-out tracks to prevent dangerous and expensive binding problems!

Description	Part No.	Price
Cessna Caravan Flap Tracks MC2622075-4	05-13089	---
Cessna Caravan Flap Tracks MC2622075-5	05-13091	---
Cessna Caravan Flap Tracks MC2622075-6	05-13092	---

FLIGHT CONTROL CABLES - AILERON

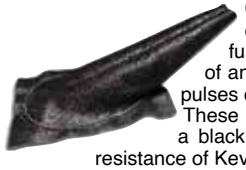
FAA-PMA approved cables for most 172 series Cessna aircraft. See website for aircraft eligibility.

Model No.	Description	Part No.	Price
MC0510105-360	Aileron Direct To Cabin Control Cable	05-13305	---
MC0510105-362	Aileron Direct To Bellcrank Control Cable	05-13306	---
MC0510105-364	Aileron Carry Thru LH Control Cable	05-13307	---
MC0510105-365	Aileron Carry Thru RH Control Cable	05-13308	---

CESSNA FUEL STRAINER GASKET

Cessna Fuel Strainer Gasket - FAA PMA. MC0756009. See our website for Aircraft Eligibility information.
Each.....P/N 05-14676 ..... ---
Pack of 5.....P/N 05-12515 ..... ---

CESSNA NOSE WHEEL STEERING ROD BOOT



Cessna steering rod boots to keep out exhaust gases and prevent smoke and fumes from entering the cockpit in the event of an engine fire while tolerating the constant air pulses caused by the rotating propeller.
These steering rod boots are manufactured with a black Kevlar/fiberglass blend fabric. The fatigue resistance of Kevlar is uniquely mated with the fire resistance of fiberglass. This is a super tough, high temperature fabric that will provide many years of outstanding performance.

Description	Part No.	Price
Cessna 150 & 152 Series Boot	05-00277	---
Cessna 172, 175, & 182 Early Series Boot	05-00279	---
Cessna 150, 151, 152 Series	05-22408	---
Cessna 172, 175, Early 182 Series	05-22409	---

CESSNA BEARING S16474-1

Cessna Bearing Halves for torque tube / inboard / outboard braking system use. S16474-1 Cessna Bearing Half. Replaces 0411263, 0411263-5, 0411263-6. Sold as each half, quantity (2) halves required for most applications. Refer to your Cessna Manual for proper eligibility.
P/N 06-02547 ..... ---

CESSNA BEARING S16475-1

Cessna Bearing Halves for torque tube / inboard / outboard braking system use. S16475-1 Cessna Bearing Half. Replaces of 0411264, 0411264-5, 0411264-6. Sold as each half, quantity (2) halves required for most applications. Refer to your Cessna Manual for proper eligibility.....P/N 06-02548 ..... ---

CESSNA CARAVAN CHAINS AND CABLES

Quality standards exceed the applicable military specifications to produce the safest cables possible. Now these quality cables are available as FAA-PMA direct replacements for the Cessna Caravan 208 and 208B.
• DOD QML 6117 certified cable manufacturer • Innovative design • Longer service life • Refined ball seat eliminates stress concentration and 17-4 stainless steel increases strength and corrosion resistance. • Added offset link eliminates binding.

Description	Part No.	Price
Aileron Trim Chain MCS2295-25-35	05-13098	---
Aileron Trim Chain MCS2295-25-43	05-13099	---
Elevator Electric Trim Chain MCS2295-25-101	05-13101	---
Elevator Trim Chain MCS2295-25-87	05-13102	---
Pitch Trim Servo Chain MCS2295-25-107	05-13103	---
Elevator Trim Wheel Chain MCS2295-25-247	05-13104	---
Elevator Up Aft Cable MC2660001-100	05-13105	---
Elevator Up Fwd Cable MC2660001-101	05-13106	---
Elevator Down Aft Cable MCS2660001-102	05-13107	---
Elevator Down Fwd Cable MCS2660001-103	05-13108	---
Rudder Right Aft Cable MCS2660001-104	05-13109	---
Flap Cable MCS2660001-105	05-13110	---
Rudder Right Fwd Cable MCS2660001-106	05-13111	---
Rudder Left AFT Cable MCS2660001-107	05-13112	---
Rudder Left Fwd Cable MCS2660001-108	05-13113	---
Elevator Trim Act To Act Cable MCS2660001-109	05-13114	---
Elevator Trim Up Aft Cable MCS2660001-110	05-13115	---
Elevator Trim Down Aft Cable MCS2660001-112	05-13116	---
Aileron To Bellcrank Cable MCS2660001-114	05-13117	---

Description	Part No.	Price
LH Column To Quad Barrel MCS2660001-118	05-13118	---
RH Column To Quad Barrel Cable MCS2660001-119	05-13119	---
A-700 Control 120" Black Knob	05-13120	---
Lwr Quadrant Cable MCS2660001-122	05-13121	---
Cntrl Column Intcnct RH Inbd Cbl MCS2660001-123	05-13122	---
Cntrl Column Intcnct LH Inbd MCS2660001-124	05-13123	---
Cntrl Column Inrcnct RH Outbd MCS2660001-125	05-13124	---
Cntrl Column Intrcnct LH Outbd MCS2660001-126	05-13125	---
Elevator Down Fwd Cable MCS2660001-147	05-13126	---
Rudder Right Fwd Cable MCS2660001-148	05-13127	---
Elevator Trim Up Fwd Cable MCS2660001-149	05-13128	---
Elevator Trim Down Fwd Cable MCS2660001-150	05-13129	---
Aileron LH Column Quad To Brrl MCS2660001-151	05-13130	---
Aileron RH Column Quad To Brrl Cble MC2660001-152	05-13131	---
Elevator Up Fwd Cable MC2660001-153	05-13134	---
Rudder Right Fwd Cable MC2660001-154	05-13135	---
Elevator Trim Down Fwd Cable MC2660001-155	05-13136	---
Elevator Trim Down Fwd Cable MC2660001-156	05-13137	---
Aileron Lower Quadrant Cable MC2660001-157	05-13138	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

COWL FLAP CONTROLS EARLY CESSNA 180 SERIES

FAA-PMA approval for cowl flap controls for early Cessna 180 model series aircraft. These new controls are the dual style, push to unlock type, eligible for Cessna 180, 180A, and 180B series aircraft. They feature a hardened stainless steel housing that won't wear and prematurely lose locking strength like the OEM brass housings. The new cowl flap controls offer solid metal construction and Teflon lined conduit, providing precise, positive control even after years of service in the harshest environments. Available with your choice of a black anodized knob or original style chrome knob.
MC0713041-1B Black Knob .....P/N 05-06980 ..... ---

CESSNA PMA'D SEAT TRACK HOUSING

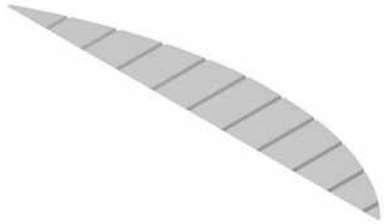
These PMA'D parts are eligible on 172, 180, 185, 205, 206, 207, 210, 336 and 337. These are made of a strong alloy and are thicker at wear points. PMA'd

Model No.	Part No.	Price
1414104-39	06-01961	---
1414104-40	06-01962	---
1414104-42	06-01964	---
1414104-61	06-01965	---
1414104-65	06-01967	---
1414104-67	06-01968	---
1414104-71	06-01969	---
1414104-72	06-01970	---
1414104-8	06-01971	---
1200604-13	06-01972	---
1200604-14	06-01973	---
1200604-28	06-01974	---
1200604-29	06-01975	---
0700645-1	06-01976	---
0700645-2	06-01977	---
0700645-3	06-01978	---
0700645-4	06-01979	---
1200603-38	06-01980	---
1200603-41	06-01981	---
1200603-42	06-03295	---
1212162-1	06-01982	---
1214022-2	06-01983	---
1214023-1	06-01984	---
1214023-2	06-01985	---
1714000-33	06-01987	---

STABILIZER JACK SCREW ACTUATOR KIT FOR CESSNA 180, 182 AND 185 AIRCRAFT

This is a FAA-PMA/STC Stabilizer Jack Screw Actuator Kit for Cessna models 180, 180A-K, 182, 182A-C, 185, 185A-E, and A185E-F aircraft. Directly replaces the original Cessna assembly.
The original low-grade steel components have been replaced with duplex stainless steel for extreme corrosion resistance even in a harsh saltwater environment. This high strength stainless steel was developed by the British for under-sea concrete reinforcing. Saltwater does not have any effect on this steel. Precision bearings are used with precision machining to reduce free play, while using extra-low temperature grease for easy turning in low temperatures. For improved strength and reliability, McFarlane redesigned the sprocket and retaining collar to allow for the use of a 5/32" roll pin for attachment, as opposed to the 3/32" roll pins originally used. This more than doubles the strength of the design. Bushings and a stainless steel chain with connectors are included .....P/N 05-06467 ..... ---

ELEVATOR TRIM SKINS CESSNA 170/190/195



Features:
- More precise corrugation spacing and shape
- No pre-drilled holes to misalign
- Precisely formed and CNC cut to shape to match OEM skins
- Plastic coated on both sides for better protection during handling (remove before installation)
- Direct replacement - No STC required

Description	Part Number	Price
Elevator Tab Lower MC0334100-4	05-07174	---
Elevator Tab Upper MC0334100-3	05-07176	---
Elevator Upper RH MC0334100-5	05-07177	---
Elevator Lower RH MC0334100-6	05-07178	---
Elevator Upper LH MC0334200-4	05-07179	---
Elevator Lower LH MC0334200-3	05-07181	---

COWL SAVER BAFFLE SEALS FOR 172R/S CESSNA AIRCRAFT

FAA-PMA Approved Baffle Seals for 172R/S Cessna Aircraft.
Features:
- FAA-PMA Approved
- Part Numbers MC0509070-4, MC0509071-2, MC0509072-4, MC0509074-2 are applicable to Cessna 172Q/R/S aircraft
- Cowl SaverTM new low friction laminated material (30x less friction than silicone)
- Precut seals for fast installation
- Addresses issues raised in SB 08-53-01 regarding cracking due to vibration
- BSC-KT-1 kit includes all required baffle seals, MS20470A4-5 soft rivets and 6036-012 retainer strips for one aircraft

McFarlane Part Number	Description	Our Part Number	Price
MC0509069-4	Baffle Seal, RH AFT	05-06476	---
MC0509070-4	Baffle Seal, LH AFT	05-06477	---
MC0509071-2	Baffle Seal, CYL 1 RH FWD	05-06478	---
MC0509072-4	Baffle Seal, CYL 2 LH FWD	05-06479	---
MC0509073-6	Baffle Seal, CYL 3 RH AFT	05-06480	---
MC0509074-2	Baffle Seal, CYL 4 LH AFT	05-06481	---
MC0509079-2	Baffle Seal, Air Intake Heat M	05-06482	---
MC0555250-17	Baffle Seal, Fwd RH Lower	05-06483	---
MC0555250-18	Baffle Seal, Fwd RH Middle	05-06484	---
MC0555250-19	Baffle Seal, Fwd RH Upper	05-06485	---
MC0555259-25	Baffle Seal, Fwd LH Lower	05-06486	---
MC0555259-26	Baffle Seal, Fwd LH Middle	05-06487	---
MC0555259-27	Baffle Seal, Fwd LH Upper	05-06488	---
MC2455076-1	Baffle Seal, RH AFT Sub Panel	05-06489	---

CESSNA ENGINE BAFFLES

Powder Coat: Only color is Hammertone (Gray) Powder Coating
Complete Engine Baffle Kits for Cessna 150 (Years: 1964 -70).
These baffles are FAA/PMA approved, have the silicone seals attached, and arrive ready to install.
Airforms is the premier manufacturer of FAA-PMA replacement baffle components.

Note:
- If aftermarket components of different dimensions have been installed, it is the installer's responsibility to adjust the baffles to fit. Components include: starters, alternators, exhaust, etc.
- Mounting hardware is not included (nuts, bolts, screws, washers, retaining springs, and Tinnerman clips).

Features:
- Baffles are made of 6061-T6 aluminum with many improvements over the original baffling
- Improvements include: stainless steel brackets where needed, hard rivet construction, half inch backing plates on seals, and an improved fit to increase engine cooling
- All Airforms engine baffles are designed to replace the factory installations and are individually interchangeable • The baffle seals are fiberglass reinforced, high temperature silicone: black is standard. Orange or blue are available for an extra charge.

SEE OUR WEBSITE FOR AIRCRAFT ELIGIBILITY AND FOR INDIVIDUAL BAFFLES!

CESSNA 150 (1964-70) KITS

Part No.	Metal Coat	Seal Color	Price
05-22470	Bare Coat	Black	---
05-22471	Bare Coat	Blue	---
05-22472	Bare Coat	Orange	---
05-22474	Gray Powder Coat	Blue	---
05-22475	Gray Powder Coat	Orange	---

CESSNA 150 (1971-77) KITS

Part No.	Metal Coat	Seal Color	Price
05-22476	Bare Coat	Black	---
05-22477	Bare Coat	Blue	---
05-22478	Bare Coat	Orange	---
05-22479	Gray Powder Coat	Black	---
05-22480	Gray Powder Coat	Blue	---
05-22481	Gray Powder Coat	Orange	---

CESSNA 152 (1980-82) KITS

Part No.	Metal Coat	Seal Color	Price
05-22489	Bare Coat	Blue	---
05-22490	Bare Coat	Orange	---
05-22492	Gray Powder Coat	Blue	---
05-22493	Gray Powder Coat	Orange	---

CESSNA 170 KITS

Part No.	Metal Coat	Seal Color	Price
05-22495	Gray Powder Coat	Black	---

CESSNA 172A KITS

Part No.	Metal Coat	Seal Color	Price
05-22497	Bare Coat	Blue	---
05-22498	Bare Coat	Orange	---
05-22501	Gray Powder Coat	Blue	---
05-22502	Gray Powder Coat	Orange	---

CESSNA 172A KITS

Part No.	Metal Coat	Seal Color	Price
05-22503	Bare Coat	Black	---
05-22504	Bare Coat	Blue	---
05-22505	Bare Coat	Orange	---
05-22506	Gray Powder Coat	Black	---
05-22507	Gray Powder Coat	Blue	---
05-22508	Gray Powder Coat	Orange	---

CESSNA 172M KITS

Part No.	Metal Coat	Seal Color	Price
05-22509	Bare Coat	Black	---
05-22510	Bare Coat	Blue	---
05-22511	Bare Coat	Orange	---
05-22512	Gray Powder Coat	Black	---
05-22513	Gray Powder Coat	Blue	---
05-22514	Gray Powder Coat	Orange	---

CESSNA 172N (1977-1979.5) KITS

Part No.	Metal Coat	Seal Color	Price
05-22516	Bare Coat	Blue	---
05-22517	Bare Coat	Orange	---
05-22518	Gray Powder Coat	Black	---
05-22519	Gray Powder Coat	Blue	---
05-22520	Gray Powder Coat	Orange	---

CESSNA 172N (1979.5-1980) KITS

Part No.	Metal Coat	Seal Color	Price
05-22521	Bare Coat	Black	---
05-22522	Bare Coat	Blue	---
05-22523	Bare Coat	Orange	---
05-22525	Gray Powder Coat	Blue	---
05-22526	Gray Powder Coat	Orange	---

CESSNA 172P KITS

Part No.	Metal Coat	Seal Color	Price
05-22527	Bare Coat	Black	---
05-22528	Bare Coat	Blue	---
05-22529	Bare Coat	Orange	---
05-22530	Gray Powder Coat	Black	---
05-22531	Gray Powder Coat	Blue	---
05-22532	Gray Powder Coat	Orange	---

CESSNA 172RG KITS

Part No.	Metal Coat	Seal Color	Price
05-22540	Bare Coat	Blue	---
05-22541	Bare Coat	Orange	---
05-22543	Gray Powder Coat	Blue	---
05-22544	Gray Powder Coat	Orange	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CESSNA ENGINE BAFFLES

CESSNA 172S KITS

Part No.	Metal Coat	Seal Color	Price
05-22547	Powder Coat	Orange	---

CESSNA 172RS KITS

Part No.	Metal Coat	Seal Color	Price
05-29014	Powder Coat	Black	---

CESSNA 177 (68) KITS

Part No.	Metal Coat	Seal Color	Price
05-22549	Bare Coat	Blue	---
05-22550	Bare Coat	Orange	---
05-22552	Gray Powder Coat	Blue	---
05-22553	Gray Powder Coat	Orange	---

CESSNA 177 (1973-74) KITS

Part No.	Metal Coat	Seal Color	Price
05-22555	Bare Coat	Blue	---
05-22556	Bare Coat	Orange	---
05-22558	Gray Powder Coat	Blue	---
05-22559	Gray Powder Coat	Orange	---

CESSNA 177RG KITS

Part No.	Metal Coat	Seal Color	Price
05-22561	Bare Coat	Blue	---
05-22562	Bare Coat	Orange	---
05-22563	Gray Powder Coat	Black	---
05-22564	Gray Powder Coat	Blue	---
05-22565	Gray Powder Coat	Orange	---

CESSNA 180 (1956-81) / 182 (1958-73) KITS WITH OIL COOLERS

Part No.	Metal Coat	Seal Color	Oil Cooler	Price
05-22574	Bare Coat	Blue	Package A	---
05-22575	Bare Coat	Orange	Package A	---
05-22580	Bare Coat	Blue	Package B	---
05-22581	Bare Coat	Orange	Package B	---
05-22586	Bare Coat	Blue	Package C	---
05-22587	Bare Coat	Orange	Package C	---
05-22591	Bare Coat	Blue	Package D	---
05-22592	Bare Coat	Orange	Package D	---
05-22577	Gray Powder Coat	Blue	Package A	---
05-22578	Gray Powder Coat	Orange	Package A	---
05-22583	Gray Powder Coat	Blue	Package B	---
05-22584	Gray Powder Coat	Orange	Package B	---
05-22589	Gray Powder Coat	Blue	Package C	---
05-22590	Gray Powder Coat	Orange	Package C	---
05-22595	Gray Powder Coat	Blue	Package D	---
05-22596	Gray Powder Coat	Orange	Package D	---

CESSNA 182 (1974-76) KITS WITH OIL COOLERS

Part No.	Metal Coat	Seal Color	Oil Cooler	Price
05-22598	Bare Coat	Black	Package G	---
05-22599	Bare Coat	Blue	Package G	---
05-22601	Bare Coat	Orange	Package G	---
05-22605	Bare Coat	Black	Package H	---
05-22606	Bare Coat	Blue	Package H	---
05-22607	Bare Coat	Orange	Package H	---
05-22603	Gray Powder Coat	Blue	Package G	---
05-22604	Gray Powder Coat	Orange	Package G	---
05-22608	Gray Powder Coat	Black	Package H	---
05-22609	Gray Powder Coat	Blue	Package H	---
05-22610	Gray Powder Coat	Orange	Package H	---

CESSNA 182 (1977-86) KITS WITH OIL COOLERS

Part No.	Metal Coat	Seal Color	Oil Cooler	Price
05-22613	Bare Coat	Black	Package G	---
05-22614	Bare Coat	Blue	Package G	---
05-22615	Bare Coat	Orange	Package G	---
05-22619	Bare Coat	Black	Package H	---
05-22620	Bare Coat	Blue	Package H	---
05-22621	Bare Coat	Orange	Package H	---
05-22616	Gray Powder Coat	Black	Package G	---
05-22617	Gray Powder Coat	Blue	Package G	---
05-22618	Gray Powder Coat	Orange	Package G	---
05-22622	Gray Powder Coat	Black	Package H	---
05-22623	Gray Powder Coat	Blue	Package H	---
05-22624	Gray Powder Coat	Orange	Package H	---

BEECHCRAFT BARON A55 / B55 ENGINE BAFFLE KITS

Part No.	Metal Coat	Seal Color	Price
05-21315	Bare Coat	Black	---
05-22465	Bare Coat	Blue	---
05-22466	Bare Coat	Orange	---
05-22468	Gray Powder Coat	Blue	---
05-22469	Gray Powder Coat	Orange	---

BEECHCRAFT BARON A55 / B55 ENGINE BAFFLE KITS

Part No.	Metal Coat	Seal Color	Price
05-22452	Bare Coat	Black	---
05-22453	Bare Coat	Blue	---
05-22454	Bare Coat	Orange	---
05-22455	Gray Powder Coat	Black	---
05-22456	Gray Powder Coat	Blue	---
05-22457	Gray Powder Coat	Orange	---

CESSNA FIBERGLASS REPLACEMENT PARTS

CESSNA 150/152

AP

What Makes These Composite Parts Such An Excellent Value?

- Stronger than factory originals with no weight increase.
- Easily repaired with locally available fiberglass kits if ever damaged.
- Exact replacements of original equipment means easy installation.
- Money back guarantee if not completely satisfied!

STRUT CUFFS

Here's an unbeatable item for renovating your Cessna; a set of replacement strut cuffs. Order just one cuff to replace a damaged original, or get a set of four for a complete replacement.

05-03703 05-03706 05-12799

Description	Part No.	Price
150/152 Strut Cuff Upper RH (SA-0522150-4)	05-03703	---
150/152 Strut Cuff Upper LH (SA-0522150-3)	05-03702	---
150/152 Strut Cuff Lower RH (SA-0421002-2)	05-03701	---
150/152 Strut Cuff Lower LH (SA-0421002-1)	05-03699	---
150/152 Aerobat Strut Cuff Upper RH (SA-0421002-3)	05-03706	---
150/152 Aerobat Strut Cuff Upper LH (SA-0421002-4)	05-03707	---
Set - 150/152 Aerobat Strut Cuff (SA-0421002-3476)	05-12799	---
150/152 Aerobat Strut Cuff Lower RH (SA-0522150-6)	05-03704	---
150/152 Aerobat Strut Cuff Lower LH (SA-0522150-7)	05-03705	---

ELEVATORS & STABILIZERS

Here are some of our most popular items. These tips take a good deal of stress in just normal flying circumstances. They're also frequent victims of ramp rash. The original plastic simply can't stand up to the task as well as fiberglass replacements from Stene Aviation. Plus, if these parts ever do withstand damage, they're easily repaired with readily available fiberglass repair kits from your local automotive parts store.

05-03710 05-03711 05-03709

Description	Part No.	Price
150 Horizontal Stabilizer Tip 1959-'63 (SA-0430004-6)	05-03710	---
150/152 Horizontal Stabilizer Tip 1964&on (SA-0430004-11)	05-03711	---
150/152 Elevator Tips (left/right) 1964&on (SA-0430004-10)	05-03709	---
150/152 Elevator Tips (left/right) 1959-'63 (SA-0430004-5)	05-03708	---

GEAR LEG AND BRAKE FAIRINGS

These are excellent items for replacing worn plastic originals. Your fiberglass replacements will be more durable with an improved finish over the original plastics.

05-03731 05-03732 05-03734

Description	Part No.	Price
150/152 Upper Gear Leg 1971&on RH (SA-0441217-14)	05-03731	---
150/152 Upper Gear Leg 1971&on LH (SA-0441217-15)	05-03732	---
150/152 Right Brake Fairing 1974&on (SA-0441227-2)	05-03734	---
150/152 Left Brake Fairing 1974&on (SA-0441227-1)	05-03733	---

RUDDER & VERTICAL FIN CAPS

These parts are a snap to replace on most planes. Please note, indicate if you have a straight tail or a swept tail. It is also important to let us know if your fin cap needs to accommodate a strobe or beacon, and if so, if the light is front-mounted or center-mounted.

05-03713 05-03714 05-03721

Description	Part No.	Price
150 Vertical Fin Cap 1964-1965 (SA-0430004-9)	05-03713	---
150 Vertical Fin Cap (no beacon) 1966-'74 (SA-0431013-3)	05-03715	---
150 Vertical Fin Cap (small beacon) 1966-'74 (SA-0431017-1)	05-03714	---
150/152 Vertical Fin Cap (small beacon) 1975 & on (SA-0430011-1)	05-03716	---
150 Rudder Top 1959-1963 (SA-0430004-2)	05-03717	---
150 Rudder Top 1964-1965 (SA-0430004-8)	05-03718	---
150/152 Rudder Top 1966-1974 (SA-0431013-1)	05-03719	---
150 Rudder Top 1975&on (SA-0430011-2)	05-03720	---
150 Rudder Bottom 1959-1965 (SA-0430004-1)	05-03721	---
150 Rudder Bottom 1966&on (SA-0431005-1)	05-03722	---

WING & DORSAL TIPS

Wing tips are a common victim of hanger and ramp rash. Maybe you thought the plane was going to clear those doors as you wheeled it back into the hanger...the first indication that you were wrong was that grating sound as the wing-tip met metal. Here's the solution: replacement fiberglass wing-tips from Stene Aviation.

05-12800 05-03725 05-03724

Description	Part No.	Price
150D/150E Dorsal Tip (SA-0430004-7)	05-12800	---
150/152 Wing-Tip (small droop) LH (SA-0523565-29)	05-03726	---
150/152 Wing-Tip (small droop) RH (SA-0523565-30)	05-03727	---
150/152 Std. Small Wing Tip (SA-0430008-3)	05-03725	---
150 Dorsal Fin 1959-'65 (SA-0430004-4)	05-03723	---
150/152 Dorsal Tip 1966&on (SA-0431024-1)	05-03724	---
150/152 Wing Tips, Small Droop (Set) (SA-0523565-2930)	05-12805	---
150/152 Set Of Wing Tips For Led Lighting (SA-0523565-2930LED)	05-12806	---
150/152 Wing Tip For Led Lighting LH (SA-0523565-29LED)	05-12807	---

WHEEL PANTS

Replace your original plastic wheel pants with high quality and durable fiberglass replacements. All wheel pants come with a 2" access plug for checking tire pressure. Original hardware is required for mounting.

05-03728 05-03730 05-12812

Description	Part No.	Price
150/152 Wheel Pant 1971-'74 RH (SA-0541223-16)	05-03728	---
150/152 Wheel Pant 1971-'74 LH (SA-0541223-17)	05-03729	---
150/152 Nose Wheel Pant 1975 &on (SA-0543079-3)	05-03730	---
150/152 LH Wheel Pant (SA-0541203-1)	05-12811	---
150/152 RH Wheel Pant (SA-0541203-2)	05-12812	---
150/152 Nose Wheel Pant (SA-0543065-1)	05-12813	---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CESSNA FIBERGLASS REPLACEMENT PARTS

CESSNA 170/172/175

ELEVATORS & STABILIZERS

Here are some of our most popular items. These tips take a good deal of stress in just normal flying circumstances. They're also frequent victims of ramp rash. The original high impact plastic simply can't stand up to the task as well as fiberglass replacements from Stene Aviation. Plus, if these parts ever do withstand damage, they're easily repaired with readily available fiberglass repair kits from your local automotive parts store.

05-03744

05-04743

05-03740

Description	Part No.	Price
172 Horizontal Tip 1963 & on (SA-0532001-93)	05-03744	---
172/175 Horizontal Tip Straight Tail (SA-0532001-61)	05-03743	---
172 Elevator Tip 1963 & on LH (SA-0532001-94)	05-03742	---
172 Elevator Tip 1963 & on RH (SA-0532001-100)	05-03741	---
172/175 Elevator Tip Straight Tail (SA-0532001-62)	05-03740	---

STRUT CUFFS

Here's an unbeatable item for renovating your Cessna; a set of replacement strut cuffs. Order just one cuff to replace a damaged original, or get a set of four for a complete replacement.

05-03739

05-03738

05-03736

Description	Part No.	Price
172 Strut Cuff Upper 1973 & on RH (SA-0523047-2)	05-03739	---
172 Strut Cuff Upper 1973 & on LH (SA-0523047-1)	05-03738	---
172 Strut Cuff Lower (all models) RH (SA-0522150-2)	05-03736	---
172 Strut Cuff Lower (all models) LH (SA-0522150-1)	05-03735	---

WING & DORSAL TIPS

Wing tips are a common victim of hanger and ramp rash. Maybe you thought the plane was going to clear those doors as you wheeled it back into the hanger...the first indication that you were wrong was that grating sound as the wing tip met metal. Here's the solution: replacement fiberglass wing tips from Stene Aviation.

05-03726

05-03759

05-03770

Description	Part No.	Price
172 Wing Tip (small droop) 1968-'72 LH (SA-0523565-29)	05-03726	---
172 Wing Tip (small droop) 1968-'72 RH (SA-0523565-30)	05-03727	---
172 Wing Tip (small droop) 1973&on LH (SA-0723200-5)	05-03762	---
172 Wing Tip (small droop) 1973&on RH (SA-0723200-6)	05-03764	---
172 Mid-Dorsal (SA-0531012-2)	05-03759	---
172 Dorsal Tip 1972&on (SA-0531020-1)	05-03760	---
Cable Covers (SA-0530011-2)	05-03770	---

RUDDER & VERTICAL FIN CAPS

These parts are a snap to replace on most planes. Please note, indicate if you have a straight tail or a swept tail. It is also important to let us know if your fin cap needs to accommodate a strobe or beacon, and if so, if the light is front-mounted or center-mounted.

05-03745

05-03752

05-03756

Description	Part No.	Price
172 Vertical Fin (no beacon) 1956-'59 (SA-0531001-36)	05-03745	---
172 Vertical Fin (large beacon) 1956-'59 (SA-0531004-3)	05-03746	---
172 Vertical Fin (no beacon) 1960-'68 (SA-0531006-33)	05-03747	---
172 Rudder Top 1969-75 (SA-0533009-1)	05-03752	---
172 Vertical Fin (small beacon) 1960-'68 (SA-0531009-1)	05-03748	---
172 Vertical Fin (small beacon) 1969-'75 (SA-0531013-1)	05-03749	---
172 Rudder Top 1976-'85 (SA-0531006-112)	05-03753	---
172 Rudder Top 1997&on (SA-0533155-2)	05-03754	---
172 Vertical Fin (small beacon) 1976&on (SA-0531003-1)	05-03750	---
172 Rudder Top 1960-'68 (SA-0531006-34)	05-03751	---
172 Rudder Bottom 1960-'68 (SA-0531006-35)	05-03756	---
172/175 Rudder Bottom Straight Tail (SA-0531104)	05-03755	---
172 Rudder Bottom 1969-'97 (SA-0531006-80 172 Vertical Fin (small beacon) (SA-0531033-6)	05-03757	---
172 Vertical Fin (small beacon) (SA-0531033-6)	05-12809	---
172 Rudder Bottom (SA-0533155-1)	05-12810	---

GEAR LEG AND BRAKE FAIRINGS

These are excellent items for replacing worn plastic originals. Your fiberglass replacements will be more durable with an improved finish over the original plastics.

05-03767

05-03768

05-12872

Description	Part No.	Price
172 Upper Gear Leg 1971&on RH (SA-1741005-240)	05-03767	---
172 Upper Gear Leg 1971&on LH (SA-1741005-239)	05-03766	---
172 Brake Fairing 1974& on LH (SA-0541224-1)	05-03768	---
172 Brake Fairing 1974&on RH (SA-0541224-2)	05-03769	---
172 Upper Gear Leg Fairing LH 172R, 172S (SA-1741005-59)	05-12872	---
172 Upper Gear Leg Fairing RH 172R, 172S (SA-1741005-60)	05-12873	---

WHEEL PANTS

Replace your original plastic wheel pants with high quality and durable fiberglass replacements. All wheel pants come with a 2" access plug for checking tire pressure. Original hardware is required for mounting.

05-03728

05-03730

05-03730

Description	Part No.	Price
172 Wheel Pant 1974&on RH (SA-0541223-16)	05-03728	---
172 Wheel Pant 1974&on LH (SA-0541223-17)	05-03729	---
172 Nose Wheel Pant 1974 & on (SA-0543079-3)	05-03730	---

AP

SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE LISTING

CESSNA FIBERGLASS REPLACEMENT PARTS

AP

CESSNA 177/180/185/188

CESSNA FIBERGLASS REPLACEMENT PARTS FOR 177

What Makes These Composite Parts Such An Excellent Value?

- Stronger than factory originals with no weight increase.
- Stronger than factory originals with no weight increase.
- Easily repaired with locally available fiberglass kits if ever damaged.
- Exact replacements of original equipment means easy installation.
- Money back guarantee if not completely satisfied!

RUDDER & VERTICAL TOPS

Cessna fiberglass replacement parts for 177 rudder and vertical tops

05-03841

05-03840

Description	Part No.	Price
177 Rudder Top (All) (SA-1733009-2)	05-03841	---
177 Vertical Top (All) (SA-1731009-4)	05-03840	---

GEAR LEG FAIRINGS

Cessna fiberglass replacement parts for 177 gear leg fairing.

05-03846

05-03848

05-03849

Description	Part No.	Price
177 Upper Gear Leg (All) RH (SA-1741005-44)	05-03846	---
177 Upper Gear Leg (All) LH (SA-1741005-43)	05-03845	---
177 Brake Fairings 1972-'74 RH (SA-0741634-14)	05-03848	---
177 Brake Fairings 1972-'74 LH (SA-0741634-13)	05-03847	---
177 Brake Fairings 1975&on RH (SA-1741027-2)	05-03849	---
177 Brake Fairings 1975&on LH (SA-1741027-1)	05-03850	---

CESSNA FIBERGLASS REPLACEMENT PARTS FOR 180/185

ELEVATORS & STABILIZERS

Here are some of our most popular items. These tips take a good deal of stress in just normal flying circumstances. They're also frequent victims of ramp rash. The original plastic simply can't stand up to the task as well as fiberglass replacements from Stene Aviation. Plus, if these parts ever do withstand damage, they're easily repaired with readily available fiberglass repair kits from your local automotive parts store.

LH/RH Horizontal Tip (SA-0732613-1).....P/N 05-03779 ..... ---

GEAR LEG AND BRAKE FAIRINGS

These are excellent items for replacing worn plastic originals. Your fiberglass replacements will be more durable with an improved finish over the original plastics.

05-03804

05-03805

Description	Part No.	Price
180/185 Brake Fairing RH(SA-0741059-2)	05-03804	---
180/185 Brake Fairing LH(SA-0741059-1)	05-03805	---

180/185 CONT. STRUT CUFFS

Here's an unbeatable item for renovating your Cessna; a set of replacement strut cuffs. Order just one cuff to replace a damaged original, or get a set of four for a complete replacement.

05-03774

05-03773

05-03772

Description	Part No.	Price
180 Strut Cuff Upper RH (SA-0723605-4)	05-03774	---
180 Strut Cuff Upper LH (SA-0723605-3)	05-03773	---
180 Strut Cuff Lower RH (SA-0723605-2)	05-03772	---
180 Strut Cuff Lower LH (SA-0723605-1)	05-03771	---

RUDDER & VERTICAL FIN CAPS

These parts are a snap to replace on most planes. Please note, indicate if you have a straight tail or a swept tail. It is also important to let us know if your fin cap needs to accommodate a strobe or beacon, and if so, if the light is front-mounted or center-mounted.

05-03781

05-03787

05-03790

Description	Part No.	Price
180/182/188 Vertical Top No Beacon (SA-0731000-200)	05-03781	---
180/182/188 Vertical Top Small Beacon (SA-0731019-1)	05-03782	---
180/185 Vertical Top Small Beacon (SA-0731019-2)	05-03787	---
185 Vertical Top No Beacon (SA-0742025-1)	05-03788	---
180/182 Vertical Top Large Beacon (SA-0700031-2)	05-03789	---
185 Vertical Top Large Beacon (SA-0731015-1)	05-03790	---

WING & DORSAL TIPS

Wing tips are a common victim of hanger and ramp rash. Maybe you thought the plane was going to clear those doors as you wheeled it back into the hanger...the first indication that you were wrong was that grating sound as the wing tip met metal. Here's the solution: replacement fiberglass wing tips from Stene Aviation.

05-03797

05-03727

05-03764

Description	Part No.	Price
180 Wing Tip (staight tip)- 1955-'67 (SA-0723615-200)	05-03797	---
180/185 Wing Tip (small droop) 1969-'72 LH(SA-0523565-29)	05-03726	---
180/185 Wing Tip (small droop) 1969-'72 RH(SA-0523565-30)	05-03727	---
180/185 Wing Tip (small droop) 1973&on LH(SA-0723200-5)	05-03762	---
172 RH Wing Tip (small droop) 1973&on (SA-0723200-6)	05-03764	---

SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE LISTING

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CESSNA FIBERGLASS REPLACEMENT PARTS

CESSNA 182

What Makes These Composite Parts Such An Excellent Value?

- Stronger than factory originals with no weight increase.
- Easily repaired with locally available fiberglass kits if ever damaged.
- Exact replacements of original equipment means easy installation.
- Money back guarantee if not completely satisfied!

ELEVATORS & STABILIZERS

05-03777 05-03779 05-12827

Here are some of our most popular items. These tips take a good deal of stress in just normal flying circumstances. They're also frequent victims of ramp rash. The original plastic simply can't stand up to the task as well as fiberglass replacements from Stene Aviation. Plus, if these parts ever do withstand damage, they're easily repaired with readily available fiberglass repair kits from your local automotive parts store.

Description	Part No.	Price
182 Elevator Tip 1965&on LH (SA-1234608-3)	05-03777	---
182 Elevator Tip 1965&on RH (SA-1234608-4)	05-03778	---
LH/RH 182 Horizontal Tip 1956-'59 (SA-0732613-1)	05-03779	---
LH/RH 182 Horizontal Tip 1965&on (SA-1232604-1)	05-03780	---
LH/RH 182 Horizontal Tip (SA-1232604-2)	05-12850	---
LH/RH 182 Horizontal Tip (SA-0732613-3)	05-12827	---

STRUT CUFFS

05-03774 05-03776 05-03772

Here's an unbeatable item for renovating your Cessna; a set of replacement strut cuffs. Order just one cuff to replace a damaged original, or get a set of four for a complete replacement.

Description	Part No.	Price
182 Strut Cuff Upper RH (SA-0723605-4)	05-03774	---
182 Strut Cuff Upper LH (SA-0723605-3)	05-03773	---
182 Strut Cuff Lower 1962&on RH (SA-0723612-4)	05-03776	---
182 Strut Cuff Lower 1962&on LH (SA-0723612-3)	05-03775	---
LH 180 Strut Cuff Lower (SA-0723605-1)	05-03771	---
RH 180 Strut Cuff Lower (SA-0723605-2)	05-03772	---

RUDDER & VERTICAL FIN CAPS

05-03786 05-12848 05-12846

These parts are a snap to replace on most planes. Please note, indicate if you have a straight tail or a swept tail. It is also important to let us know if your fin cap needs to accommodate a strobe or beacon, and if so, if the light is front-mounted or center-mounted.

Description	Part No.	Price
205/206/207/210 Vertical Fin (small beacon) 1964 - (SA-1231064-1)	05-03786	---
206/207 Vertical Fin (small beacon) 1967 - (SA-0731606-3)	05-03785	---
205/206/207/210 Rudder Top 1964 - (SA-0731606-9)	05-03793	---
206/207 Rudder Top 1967 - (SA-0731606-6)	05-03792	---
SA-1227402-3456SP	05-12846	---
SA-1227402-3456	05-12845	---
182 Rudder Top (SA-1231001-2)1976 & on	05-12847	---
182 Vertical Top (SA-1231059-1) 182P	05-12848	---
182 Vertical Fin (SA-1231064-10)182T, T182T	05-12849	---

182 TAILCONE

Replace your wore and cracked tailcone with a stronger than factory original fiberglass tailcone from Stene Aviation.
182 TailCone 1962&on (SA-1212010-15)
P/N 05-03794 ..... ---

GEAR LEG AND BRAKE FAIRINGS

05-03799 05-03806 05-12828

These are excellent items for replacing worn plastic originals. Your fiberglass replacements will be more durable with an improved finish over the original plastics.

Description	Part No.	Price
182 Upper Gear Leg 1972-'75 RH (SA-1741005-200)	05-03799	---
182 Upper Gear Leg 1972-'75 LH (SA-1741005-201)	05-03801	---
182 Upper Gear Leg Fairing 1976&on RH (SA-1741052-200)	05-03802	---
182 Upper Gear Leg 1976&on LH (SA-1741052-201)	05-03803	---
182 Brake Fairing 1972-'74 RH (SA-0741634-18)	05-03806	---
182 Brake Fairing 1972-'74 LH (SA-0741634-19)	05-03807	---
182 Brake Fairing 1975-'78 RH (SA-0741634-10)	05-03808	---
182 Brake Fairing 1975-'78 LH (SA-0741634-11)	05-03809	---
182 Upper Gear Leg RH (SA-0741052-12)	05-12829	---
182 Upper Gear Leg LH (SA-0741052-11)	05-12828	---

WING & DORSAL TIPS

05-03726 05-03762 05-03797

Wing tips are a common victim of hanger and ramp rash. Maybe you thought the plane was going to clear those doors as you wheeled it back into the hanger...the first indication that you were wrong was that grating sound as the wing tip met metal. Here's the solution: replacement fiberglass wing tips from Stene Aviation.

Description	Part No.	Price
182 Wing Tip (small droop) 1969-'72 LH (SA-0523565-29)	05-03726	---
182 Wing Tip (small droop) 1969-'72 RH (SA-0523565-30)	05-03727	---
182 Wing Tip (small droop) 1973&on LH (SA-0723200-5)	05-03762	---
182 Wing Tip (small droop) 1973&on RH (SA-0723200-6)	05-03764	---
182 Wing Tip (straight tip)- 1955-'67 (SA-0723615-200)	05-03797	---

WHEEL PANTS

05-03728 05-12830 05-12834

Replace your original plastic wheel pants with high quality and durable fiberglass replacements. All wheel pants come with a 2" access plug for checking tire pressure. Original hardware is required for mounting.

Description	Part No.	Price
182 Wheel Pant 1975&on RH (SA-0541223-16)	05-03728	---
182 Wheel Pant 1975&on LH (SA-0541223-17)	05-03729	---
182 Nose Wheel Pant 1975&on (SA-0543079-3)	05-03730	---
180K/A185F LH Wheel Pant (SA-0741070-1)	05-12830	---
180K/A185F RH Wheel Pant (SA-0741070-2)	05-12831	---
182T/T182T LH Wheel Pant (SA-0741647-1)	05-12832	---
182T/T182T RH Wheel Pant (SA-0741647-2)	05-12833	---
182T/T182T Nose Wheel Pant (SA-0743050-14)	05-12834	---

CESSNA FIBERGLASS REPLACEMENT PARTS

CESSNA 205/206/207/210

What Makes These Composite Parts Such An Excellent Value?

- Stronger than factory originals with no weight increase.
- Easily repaired with locally available fiberglass kits if ever damaged.
- Exact replacements of original equipment means easy installation.
- Money back guarantee if not completely satisfied!

ELEVATORS & STABILIZERS

05-03777

05-03780

05-03779

Here are some of our most popular items. These tips take a good deal of stress in just normal flying circumstances. They're also frequent victims of ramp rash. The original plastic simply can't stand up to the task as well as fiberglass replacements from Stene Aviation. Plus, if these parts ever do withstand damage, they're easily repaired with readily available fiberglass repair kits from your local automotive parts store.

Description	Part No.	Price
206/207 Elevator Tips 1965-'67 LH (SA-1234608-3)	05-03777	---
206/207 Elevator Tips 1965-'67 RH (SA-1234608-4)	05-03778	---
206/207 Horizontal Tip 1967 & on (SA-1232012-1)	05-03833	---
206/207 Horizontal Tip 1965-1967 (SA-1232604-1)	05-03780	---
210 (1967 & on) Elevator Tips LH (SA-1234640-1 left hand)	05-03831	---
210 (1967 & on) Elevator Tips RH (SA-1234640-2 right hand)	05-03832	---
210 (1967 & on) Horizontal Tip (SA-1232012-1)	05-03833	---
LH/RH 182 Horizontal Tip (SA-1232604-2)	05-12850	---
LH/RH Horizontal Tips (SA-1232616-1)	05-12851	---
LH/RH Horizontal Tip 1956-'59 (SA-0732613-1)1963 - 64	05-03779	---

WING TIPS

05-03726

05-03764

05-03796

Wing tips are a common victim of hanger and ramp rash. Maybe you thought the plane was going to clear those doors as you wheeled it back into the hanger...the first indication that you were wrong was that grating sound as the wing tip met metal. Here's the solution: replacement fiberglass wing tips from Stene Aviation.

Description	Part No.	Price
206 Wing Tip (small droop) 1969-'72 LH (SA-0523565-29)	05-03726	---
207 Wing Tip (small droop) 1969&on LH (SA-0523565-29)	05-03726	---
206 Wing Tip (small droop) 1973&on LH (SA-0723200-5)	05-03762	---
206 Wing Tip (small droop) 1973&on RH(SA-0723200-6)	05-03764	---
210 Wing Tip 1971&on LH(SA-1221111-203)	05-03835	---
210 Wing Tip 1971&on RH(SA-1221111-202)	05-03834	---
Wing Tip Large Conical Tip LH (SA-1223000-7)	05-03795	---
Wing Tip Large Conical Tip RH (SA-1223000-8)	05-03796	---

RUDDER & VERTICAL FIN CAPS

05-03786

05-03792

05-12852

These parts are a snap to replace on most planes. Please note, indicate if you have a straight tail or a swept tail. It is also important to let us know if your fin cap needs to accommodate a strobe or beacon, and if so, if the light is front-mounted or center-mounted.

Description	Part No.	Price
205/206/207 Vertical Fin (small beacon) 1964-'67 and 1976&on (SA-1231064-3)	05-03786	---
206/207 Vertical Fin (small beacon) 1967-'75 (SA-0731606-3)	05-03785	---
206/207 Rudder Top 1967-'75 (SA-0731606-6)	05-03792	---
205/206/207 Rudder Top 1964-'66 & 1976&on (SA-0731606-9)	05-03793	---
206 Rudder Top (SA-1233736-1)	05-12852	---

GEAR LEG AND BRAKE FAIRINGS

05-03813

05-03836

05-12855

These are excellent items for replacing worn plastic originals. Your fiberglass replacements will be more durable with an improved finish over the original plastics.

Description	Part No.	Price
207 Right Upper Gear Leg 1969&on(SA-1241217-2)	05-03813	---
207 Left Upper Gear Leg 1969&on(SA-1241217-1)	05-03812	---
206 Right Brake Fairing (Heavy Duty)(SA-1241232-2)	05-03837	---
206 Left Brake Fairing (Heavy Duty)(SA-1241232-1)	05-03836	---
207 Left Brake Fairing (SA-1241228-1)	05-12854	---
207 Right Brake Fairing (SA-1241228-2)	05-12855	---

STRUT CUFFS

05-03817

05-03829

05-12844

Here's an unbeatable item for renovating your Cessna; a set of replacement strut cuffs. Order just one cuff to replace a damaged original, or get a set of four for a complete replacement.

Description	Part No.	Price
210 Strut Cuff Upper Right 1960-'63(SA-1227002-4)	05-03817	---
210 Strut Cuff Upper Left 1960-'63(SA-1227002-5)	05-03818	---
206/207 Strut Cuff Upper Right 1964-'71 (SA-1227002-10)	05-03821	---
206/207 Strut Cuff Upper Left 1964-'71 (SA-1227002-11)	05-03822	---
206/207 Strut Cuff Upper Right 1972 & on (SA-1227005-6)	05-03826	---
206/207 Strut Cuff Upper Left 1972 & on (SA-1227005-5)	05-03825	---
210 Strut Cuff Lower Right 1960&'61(SA-1227002-2)	05-03815	---
210 Strut Cuff Lower Right 1962&'63(SA-1227402-6)	05-03820	---
210 Strut Cuff Lower Left 1962&'63(SA-1227402-5)	05-03819	---
205 Strut Cuff Lower Right 1963&'64(SA-1227401-4)	05-03829	---
205 Strut Cuff Lower Left 1963&'64(SA-1227401-5)	05-03830	---
206 Strut Cuff Lower Right 1964-'71(SA-1227402-4)	05-03824	---
206 Strut Cuff Lower Left 1964-'71(SA-1227402-3)	05-03823	---
206/207 Strut Cuff Lower Right 1972&on (SA-1227010-2)	05-03828	---
206/207 Strut Cuff Lower Left 1972&on (SA-1227010-1)	05-03827	---
210 Strut Cuff Upper 1960-'63 RH(SA-1227002-4)	05-03817	---
210 Strut Cuff Upper 1960-'63 LH(SA-1227002-5)	05-03818	---
210 Strut Cuff Lower 1960&'61 RH(SA-1227002-2)	05-03815	---
207 LH Upper Strut Cuff (SA-1227011-5) 207, T207, 207A, T207A	05-12838	---
210 LH Strut Cuff Lower 210D, 210E (SA-1227402-1) 210D, 210E	05-12843	---
210 RH Strut Cuff Lower (SA-1227402-2) 210D, 210E	05-12844	---

WHEEL PANTS

05-03777

05-03780

05-03779

Replace your original plastic wheel pants with high quality and durable fiberglass replacements. All wheel pants come with a 2" access plug for checking tire pressure. Original hardware is required for mounting.

Description	Part No.	Price
206 Wheel Pant 1975&on RH (SA-0541223-16)	05-03728	---
206 Wheel Pant 1975&on LH (SA-0541223-17)	05-03729	---
206 Nose Wheel Pant 1975&on (SA-0543079-3)	05-03730	---
206 Oversize Wheel Pant (SA-1234045-1)	05-12853	---
206 LH Oversize Wheel Pant (SA-1241229-1)	05-12856	---
206 RH Oversize Wheel Pant (SA-1241229-2)	05-12857	---
206 Oversize Wheel Pant (SA-1243045-12)	05-12858	---

AP

BEECH THROTTLE, MIXTURE, PROP KNOB SET

These high-strength knobs for Bonanzas are a big improvement over old, cracked original equipment and likely the best replacement knobs on the market. Bright color-coded space-age material will not crack or fade and will not get hot like aluminum knobs .....P/N 05-00652 ..... ---

Push buttons only, with new screws

WINDOW VENT HINGE & LATCH KIT

For new windows only on Mooney, Piper, Socata, Commander. Window not included. This is the latch kit only. Every Mooney or Piper Pilot will appreciate the quality workmanship in every one of these storm window hinge/latch kits. Professional construction means they work smoothly, and they fit standard factory window holes with no modifications. New applications only **Features**: For window thickness: 1/8", 3/16", 1/4"

P/N 05-01336 ..... ---

BEECH STORM WINDOW HINGE/LATCH KIT

Every Bonanza or Baron pilot will appreciate the quality workmanship in every one of these storm window hinge/latch kits. Professional construction means they work smoothly, and they fit standard factory window holes with no modifications.

Complete hinge/latch kit

P/N 05-00654 ..... ---

Latch & Striker only.P/N 05-00655 ..... ---

Hinges Only .....P/N 05-00656 ..... ---

ALTERNATOR BLAST AIR DUCTS

This 24V Alternator Blast Air Duct is for use with Beech Bonanza.

Comes with 8.....P/N 05-10907 ..... ---

NOT FAA APPROVED

TOW PIN FOR BEECHCRAFT FAA/PMA APPROVED

Installation Eligibility:

Debonair: 35-A33, 35-B33, 35-33, E33, F33

Bonanza: G33, 35-C33A, E33A, F33A, F33C, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC

Baron: 20-21-3 95-55, 95-55, 95-B55, 59-C55, D55, E55, 58, 56TC, A56TC, 58TC, 58P

RAPCO Tow Pin.....P/N 05-01625 ..... ---

BEECHCRAFT TORQUE LINK PIN CA101-810025-0003

King Air Torque Link Top Pin. Direct replacement for OEM 101-810025-1 and 101-810025-003. 75% stronger!

P/N 05-28833 .....

BEECHCRAFT TORQUE LINK PIN CA101-810026-0005

King Air Torque Link Top Pin. Direct replacement for OEM 101-810026-1 and 101-810026-0005. 75% stronger!

P/N 05-28834 .....

AEROSTAR SEAT ROLLER - ATGF REPAIR BUSHINGS

This kit includes the self-lubricating polymer alloy bushings. The stainless steel sleeves are not included in this kit. Please refer to M-01-1002 for the Aerostar Seat Roller Repair Sleeves Kit.

Seats in the Aerostar are designed to roll on four aluminum rollers located at each seat corner. The rollers are made from a relatively soft aluminum running against steel sleeves, and are not supposed to be lubricated in accordance with the aircraft maintenance requirements. If the wear is uneven across the four rollers, the worn roller will not be able to support the seat which can cause the seat to bind making it difficult to move forward and backward.

P/N 05-27091 ..... ---

AEROSTAR SEAT ROLLER - CRES REPAIR SLEEVE

This kit includes the stainless steel sleeves. The self-lubricating polymer alloy bushings are not included in this kit. Please refer to M-01-1001 for the Aerostar Seat Roller Repair Bushing Kit.

Seats in the Aerostar are designed to roll on four aluminum rollers located at each seat corner. The rollers are made from a relatively soft aluminum running against steel sleeves, and are not supposed to be lubricated in accordance with the aircraft maintenance requirements. If the wear is uneven across the four rollers, the worn roller will not be able to support the seat which can cause the seat to bind making it difficult to move forward and backward .....P/N 05-27092 ..... ---

KING AIR NLG DOOR HINGE AEROTOUGH® BUSHING KIT

This kit covers the nose gear door hinge bushings for the King Air.

Avoid unnecessary and costly repairs by installing AeroTough® GF polymer bushings. This preventative maintenance solution will ensure that you will never have the complications with seized bushings that traditional metal bushings can exhibit.

Lifetime lubricated AeroTough® bushings prevent problems:

P/N 05-27093 ..... ---

BEECHCRAFT MAIN GEAR BOLT

This is a replacement for discontinued Main Gear Bolt part number CA101-810089-1. The new part number is CA101-810089-1A. This part has been tested and is superior in tensile strength and fatigue and crack resistance. Eligible for Beechcraft 1900 series aircraft, this is a life limited part that meets all requirements for the full 5 year/10,000 cycle life. The part number and serial number are engraved on the bolt head.

P/N 05-04163 ..... ---

BEECH DOOR HINGE KITS

Main landing gear door hinge kits from Marsh Brothers Aviation for all models of Beech Bonanza and Debonair. Avoid unnecessary and costly repairs by installing AeroTough™ GF polymer bushings. This preventative maintenance solution will ensure that you will never have the complications with seized bushings that traditional metal bushings can exhibit.

Bonanza .....P/N 05-11934 ..... ---

Baron .....P/N 05-11935 ..... ---

Bonanza/Baron Install Kit.....P/N 05-12241 ..... ---

AP

Product No.	Part No.	Description	Price
1133089-2	08-19182	A/C Drive Bushing- Rubber Cylinder	---
1133089-4	08-19183	A/C Drive Grommet- Silicone Ring	---
14390-003-05	08-19184	Aileron Gap Seal- Sterling	---
14390-003	08-19185	Aileron Gap Seal- White	---
50979-001	08-19186	Battery #2- Sealed, Lead Acid	---
21063-001	08-19187	Battery #2- Sealed, Lead Acid	---
11799-004	08-19188	Bracket- Wheel Fairing, Nose Landing Gear	---
51698-003	08-19189	Brake Temperature Label- 300 Degree, Yellow	---
51698-001	08-19190	Brake Temperature Label- 330 Degree, Blue	---
51698-004	08-19191	Brake Temperature Label- 450 Degree, Red	---
24649-001	08-19192	Brake Temperature Sensor- W/ Perspective Avionics	---
14880-003	08-19193	Cht Sensor- Modified W/ Sealed Connector, After Sb2x-77-02	---
14880-001	08-19194	Cht Sensor- Modified W/ spade Connectors	---
24584-001	08-19195	Cht Sensor- W/ Perspective Avionics	---
16578-001	08-19196	Cht Sensor- W/sensor Interface Unit	---
14604-002	08-19197	Current Sensor- Potted	---
14554-003	08-19198	Egt Sensor- Modified W/ sealed Connector, After Sb2x-77-02	---
14554-001	08-19199	Egt Sensor- Modified W/ spade Connectors	---
24585-001	08-19200	Egt Sensor- W/ Perspective Avionics	---
16579-002	08-19201	Egt Sensor- W/ Sesnsor Interface Unit	---
44031-001	08-19202	Fcm- Alt 2	---
15164-021B	08-19203	Ferrule- Aluminum 3/16 (Olive)	---
15164-022B	08-19204	Ferrule- Aluminum 5/16 (Olive)	---
44030-001	08-19205	Field Control Module- Alternator 1, Potted	---
51136-125	08-19206	Fuse- 125a Midi Series, 32v #498126	---
51118-002	08-19207	Fuse- 2a, Mini Ato Blade, Gray	---
51790-030	08-19208	Fuse- 30 Amp, Mcu, Maxi	---
51790-050	08-19209	Fuse- 50 Amp, Mcu, Maxi	---
51118-007	08-19210	Fuse- 7.5a, Mini Ato Blade, Brown	---
51790-080	08-19211	Fuse- 80 Amp, Mcu, Maxi	---
51790-060	08-19212	Fuse- Fuse, 60a, 32, Maxi	---
18200-005	08-19213	Gas Strut- Cabin Door	---
17298-001	08-19214	Lens- Landing Light	---

Product No.	Part No.	Description	Price
34713-107	08-19215	Lip Seal, Main Wheel- Lip Seal Main Wheel 18-x5.5 Sf50	---
14610-004	08-19216	Logic Module- Mcu 100/110/120, Potted	---
11879-006	08-19217	Nlg Puck- Landing Gear Shock Absorption	---
13386-001	08-19218	Nlg Puck- Landing Gear Shock Absorption	---
15164-094B	08-19219	Oring- 1/2 Ice Protection	---
15164-092B	08-19220	O-ring- 5/16 Ice Protection	---
21986-206	08-19221	O-ring- Tks Filter Sump To Filter Head	---
27160-001	08-19222	Placard- Engine Control Panel, Sr22 Turbo, Carbon Fiber	---
50498-200	08-19223	Plug- 2.0 Diameter, Unpainted	---
12635-003	08-19224	Pressure Sensor- Manifold Pressure	---
12635-004	08-19225	Pressure Sensor- Oil Pressure	---
18380-001	08-19226	Rebound Bumper- Nose Landing Gear, Puck Stack	---
50293-001	08-19227	Relay	---
29409-002	08-19228	Relay Assembly- Electronic, Flap Actuator	---
50288-001	08-19229	Relay- Spdt, 24v Dc, W/ Diode	---
51157-001	08-19230	Retainer- Weatherstrip, M5 Hole	---
12983-001	08-19231	Shock Cord- Rudder/aileron Interconnect	---
NAS-43DD3-42FC	08-19232	Spacer- Aluminum, A/c Drive Bushings	---
51381-001	08-19233	Spring- Extension, Exhaust	---
12801-001	08-19234	Switch- Differential Pressure	---
14128-001	08-19235	Switch- Differential Pressure	---
53722-063U	08-19236	Tape- Cowl Seal, Black, 13 Ft / Roll	---
51042-005U	08-19237	Tape- Vhb Two-sided, Aileron Gap Seal, 180 Ft / Roll	---
50545-001	08-19238	Thrust Washer- Nose Fork, Teflon Coated	---
21986-203	08-19239	Tks Filter Element- Drop-in Cartridge, De-ice System	---
26115-101	08-19240	Tks Filter Element- Replacement Assembly	---
11869-002	08-19241	Towbar Lug- Nose Landing Gear, Fork	---
29211-001	08-19242	Turbine Inlet Temp Sensor- Sr22t, W/ Sealed Connector	---
51853-001	08-19243	Washer- Belleville	---
50802-001	08-19244	Well Nut- 10-32, Long	---
50803-001	08-19245	Well Nut- 10-32, Short	---
13522-001	08-19246	Wheel Fairing Bracket- Main Gear, Upper	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

Piper Throttle Controls

Model	Serial Number	P/N	Our P/N	Price
PA20,PA20S,PA20-115	20-1 thru 20-933	455-139	05-01743	---
PA20S-115,PA20-135	20-934 thru 20-1121	455-139	05-01743	---
PA20S-135	20-934 thru 20-1121	455-139	05-01743	---
PA22 (125hp)	22-1 thru 22-533	455-139	05-01743	---
PA22-135	22-534 thru 22-2377	455-139	05-01743	---
PA22-135	22-2379 thru 22-2424	455-139	05-01743	---
PA22-135,PA22S-135	22-2378, 22-2425 thru 22-3217	12693-04	05-02209	---
PA22-135,PA22S-135	22-3219 thru 22-3386	12693-04	05-02209	---
PA22-150,PA22S-150	22-2378, 22-2425 thru 22-7642	12693-04	05-02209	---
PA22-160,PA22S-160	22-5139, 22-5603 thru 22-7642	12693-04	05-02209	---
PA22-108	22-8000 and On	12693-04	05-02209	---
PA28-140	28-20002 thru 28-24999	12693-04	05-02209	---
PA28-140	28-25000 thru 28-26956	455-353	-	-
PA28-140	28-7125001 thru 28-7725290	455-353	-	-
PA28-150	28-1 thru 28-4377	12693-04	05-02209	---
PA28-151	28-7415001 thru 28-7715314	455-350	05-01745	---
PA28-160	28-1 thru 28-4377	12693-04	05-02209	---
PA28-161	28-7716002 thru 28-8616057	455-350	05-01745	---
PA28-161	2816001 thru 2816110 (Less 2816066)	455-350	05-01745	---
PA28-161 Cadet	2841001 and On	455-350	05-01745	---
PA28-180	28-671 thru 28-4377	12693-04	05-02209	---
PA28-180	28-4378 thru 28-5152	455-333	05-01746	---
PA28-180	28-5153 thru 28-5869	455-350	05-01745	---
PA28-180	28-7105001 thru 28-7505261	455-350	05-01745	---
PA28R-180	28R-30005 thru 28R-30481	455-322	05-01747	---
PA28R-180	28R-30483 thru 28R-31279	455-322	05-01747	---
PA28R-180	28R-7130001 thru 28R-7130019	455-322	05-01747	---
PA28-181	28-7690001 thru 28-8290174	455-350	05-01745	---
PA28-181	28-8390001 and On	455-350	05-01745	---
PA28-201T	28-7921001 thru 28-7921095	455-322	05-01747	---
PA28R-200	28R-30482,28R-35001 thru 28R-35830	455-322	05-01747	---
PA28R-200	28R-7135001 thru 28R-7635545	455-322	05-01747	---
PA28R-201	28R-7737002 thru 28R-7837317	455-322	05-01747	---
PA28R-201	2837001 thru 2837061	455-322	05-01747	---
PA28R-201T	28R-7703002 thru 28R-7803372	455-322	05-01747	---
PA28R-201T	2803001 thru 2803015	455-322	05-01747	---
PA28RT-201	28R-7918001 thru 28R-8018116	455-322	05-01747	---
PA28RT-201	28R-8118001 and On	455-322	05-01747	---
PA28RT-201T	28R-7931001 thru 28R-8031188	455-322	05-01747	---
PA28RT-201T	28R-8131001 and On	455-322	05-01747	---
PA28-235	28-10003 thru 28-11039	12693-04	05-02209	---
PA28-235	28-11040 thru 28-11393	455-333	05-01746	---
PA28-235	28-7110001 thru 28-7210033	455-333	05-01746	---
PA28-235	28-7310001 thru 28-7710089	455-333	05-01746	---
PA28-236	28-7911001 thru 28-8211060	455-333	05-01746	---
PA28-236	28-8311001 and On	455-333	05-01746	---
PA32-260	32-1111 thru 32-1320	455-360	05-01748	---
PA32-260	32-7100001 thru 32-7800008	455-360	05-01748	---
PA32-300	32-40000 thru 32-40565	69530-02	-	-
PA32-300	32-40566 thru 32-41018	455-358	05-01749	---
PA32-300	32-7140001 thru 32-7940282	455-358	05-01749	---
PA32-301	32-8006001 thru 32-8406020	455-358	05-01749	---
PA32-301	32-8506001 and On	455-358	05-01749	---
PA32-301T	32-8024001 thru 32-8424002	455-344	05-01750	---
PA32-301T	32-8524001 and On	455-344	05-01750	---
PA32R-301T	32R-8029001 thru 32R-8229078	455-360	05-01748	---
PA32R-301T	32R-8329001 and On	455-360	05-01748	---
PA32RT-300T	32R-7887001 thru 32R-7987146	455-360	05-01748	---

Piper Mixture Controls

Model	Serial No.	P/N	Our P/N	Price
PA-18,PA-8S,PA-18"105"	All	600-72	05-01254	---
PA18S"105",PA-18A,PA-18"125"	All	600-72	05-01254	---
PA-18S"125",PA-18AS"125"	All	600-72	05-01254	---
PA-18"135", PA-18S"135"	All	600-72	05-01254	---
PA-18A"135", PA-18AS"135"	All	600-72	05-01254	---
L-21A, L-21B, PA-18"150"	All	600-72	05-01254	---
PA-18A"150", PA-18S"150"	All	600-72	05-01254	---
PA-18AS"150"	All	600-72	05-01254	---
PA-19, PA-19S, L-18C	All	600-72	05-01254	---
PA-20, PA-20S, PA-20-115	All	600-72	05-01254	---
PA-20S-115,PA-20-135,PA-20S-135	All	600-72	05-01254	---
PA-22, PA-22-108, PA-22-135	All	600-72	05-01254	---
PA-22S-135,PA-22-150,PA-22S-150	All	600-72	05-01254	---
PA-22-160, PA-22S-160	All	600-72	05-01254	---
PA-24-180	All	600-72	05-01254	---
PA-24-250	All	600-72	05-01254	---
PA-24-260	All with Carbureted Engine	600-72	05-01254	---
PA24-400	26-2 thru 26-148	22633-04	05-01757	---
PA-28-140	28-20002 thru 28-24999	600-72	05-01254	---
PA-28-150, PA-28-160	28-1 thru 28-4377	600-72	05-01254	---
PA-28S-160	28-1 thru 28-1760	600-72	05-01254	---
PA-28-180, PA-28S-180	28-671 thru 28-4377	600-72	05-01254	---
PA-28-235	28-10003 thru 28-11038	600-72	05-01254	---
PA28-140	28-25000 thru 28-26956	455-352	05-01755	---
PA28-140	28-7125001thru28-7725290	455-352	05-01755	---
PA28-151	28-7415001thru28-7715314	455-352	05-01755	---
PA28-161	28-7716002 thru 28-8616057	455-352	05-01755	---
PA28-161	2816001 thru 2816110 (Less2816066)	455-352	05-01755	---
PA28-161 Cadet	2841001 and On	455-352	05-01755	---
PA28-180	28-4378 thru 28-5152	455-332	05-02212	---
PA28-180	28-5153 thru 28-5869	455-352	05-01755	---
PA28-180	28-7105001 thru 28-7505261	455-352	05-01755	---
PA28R-180	28R-30005 thru 28R-30481	455-322	05-01747	---
PA28R-180	28R-30483 thru 28R-31279	455-322	05-01755	---
PA28R-180	28R-7130001 thru 28R-7130019	455-322	05-01755	---
PA28-181	28-7690001 thru 28-8290174	455-352	05-01755	---
PA28-181	28-8390001 and On	455-352	05-01755	---
PA28-201T	28-7921001 thru 28-7921095	455-361	05-02213	---
PA28R-200	28R-30482,28R-35001thru28R-35830	455-322	05-01755	---
PA28R-200	28R-7135001 thru 28R-7635545	455-322	05-01755	---
PA28R-201	28R-7737002 thru 28R-7837317	455-322	05-01755	---
PA28R-201	2837001 thru 2837061	455-322	05-01755	---
PA28R-201T	28R-7703002 thru 28R-7803372	455-361	05-02213	---
PA28R-201T	2803001 thru 2803015	455-361	05-02213	---
PA28RT-201	28R-7918001 thru 28R-8018116	455-322	05-01757	---
PA28RT-201	28R-8118001 and On	455-322	05-01757	---
PA28RT-201T	28R-7931001 thru 28R-8031188	455-361	05-02213	---
PA28RT-201T	28R-8131001 and On	455-361	05-02213	---
PA28-235	28-11040 thru 28-11393	455-332	05-02212	---
PA28-235	28-7110001 thru 28-7210033	455-332	05-02212	---
PA28-235	28-7310001 thru 28-7710089	455-332	05-02212	---
PA28-236	28-7911001 thru 28-8211060	455-332	05-02212	---
PA28-236	28-8311001 and On	455-332	05-02212	---
PA32-260	32-1111 thru 32-1320	455-361	05-02213	---
PA32-260	32-7100001 thru 32-7800008	455-361	05-02213	---
PA32-301T	32-8024001 thru 32-8424002	455-344	05-01750	---
PA32-301T	32-8524001 and On	455-344	05-01750	---
PA32R-301T	32R-8029001 thru 32R-8229078	455-360	05-01748	---
PA32R-301T	32R-8329001 and On	455-360	05-01748	---
PA32RT-300T	32R-7887001 thru 32R-7987146	455-360	05-01748	---

Piper Prop Controls

Model	Serial Number	P/N	Our P/N	Price
PA24-250	24-105 thru 24-2174	455-184	05-02214	---
PA24-250	24-2176 thru 24-2298	455-184	05-02214	---
PA24-250	24-2175, 24-2299 thru 24-3687	455-252	05-02215	---
PA24-260	24-3642, 24-4000 thru 24-4782	455-252	05-02215	---
PA24-260	24-4784 thru 24-4803	455-252	05-02215	---
PA28R-180	28R-30005 thru 28R-30481	455-322	05-01747	---
PA28R-180	28R-30483 thru 28R-31279	455-322	05-01747	---
PA28R-180	28R-7130001 thru 28R-7130019	455-322	05-01747	---
PA28-201T	28-7921001 thru 28-7921095	455-322	05-01747	---
PA28R-200	28R-30482	455-322	05-01747	---
PA28R-200	28R-35001 thru 28R-35830	455-322	05-01747	---
PA28R-200	28R-7135001 thru 28R-7635545	455-322	05-01747	---
PA28R-201	28R-7737002 thru 28R-7837317	455-322	05-01747	---
PA28R-201	2837001 thru 2837061	455-322	05-01747	---
PA28R-201T	28R-7703002 thru 28R-7803372	455-322	05-01747	---
PA28R-201T	2803001 thru 2803015	455-322	05-01747	---
PA28RT-201	28R-7918001 thru 28R-8018116	455-322	05-01747	---
PA28RT-201	28R-8118001 and On	455-322	05-01747	---
PA28RT-201T	28R-7931001 thru 28R-8031188	455-322	05-01747	---
PA28RT-201T	28R-8131001 and On	455-322	05-01747	---
PA28-235	28-7310001 thru 28-7710089	455-344	05-01750	---
PA28-236	28-7911001 thru 28-8211060	455-344	05-01750	---
PA28-236	28-8311001 and On	455-344	05-01750	---
PA32-300	32-40000 thru 32-40565	65451-04	05-02216	---

Throttle Controls for Bellanca Viking Aircraft

P/N S191783-18

Model	Serial Number	Our P/N	Price
17-30A	30263 & On, and aircraft w/S/N prefix: "75-"	05-01763	---
17-31A	73-32-128 & On, and aircraft w/ S/N prefix "75-"	05-01763	---
17-31ATC	73-31067 & On, and aircraft w/S/N prefix "75-"	05-01763	---

Throttle Controls for Grumman Aircraft

Model	Serial Number	P/N	Our P/N	Price
AA-1	AA1-0433 and On	507005-1	05-01760	---
AA-1A	AA1A-0001 and On	507005-1	05-01760	---
AA-1B	AA1B-0001 and On	507005-1	05-01760	---
AA-1C	AA1B-0601	507005-1	05-01760	---
AA-1C	AA1C-0001 and On	507005-1	05-01760	---
AA-5	AA5-0001 and On	507005-2	05-01761	---
AA-5A	AA5A-0283 and On	507005-2	05-01761	---
AA-5B	AA5B-0001 and On	507005-3	05-01762	---

MCFARLANE THROTTLE CONTROLS FOR PIPER AIRCRAFT

Description	Part Number	Price
Mcfarlane MC12694-000 Control Throttle	05-26640	---
Mcfarlane MC12694-002 Control Throttle	05-26641	---
Mcfarlane MC12694-003 Control Throttle	05-26642	---

KNOTS 2U PIPER REPLACEMENT PARTS

P/N 05-07038

P/N 05-07044

P/N 05-07001

Hand laid fiberglass replaces the OEM plastic, from Tail Cone to Nose Fairing we can help you find the right carbon fiber / kevlar FAA/PMA approved replacement aircraft parts for your aircraft.

PA-23

MFR P/N	Description	Part No.	Price
GF16109-00	PA-23Tip Stabilator	05-07001	---
GF32464-00	PA-23 Faring Left Wing Root	05-07037	---
GF32464-01	PA-23 Faring Right Wing Root	05-07038	---
GF32466-00	PA-23 Faring Nacelle Left Inboard	05-07039	---
GF32466-01	PA-23 Faring Nacelle Right Inboard	05-07041	---
GF32471-00	PA-23 Faring Nacelle Left Outboard	05-07042	---
GF32471-01	PA-23 Faring Nacelle Right Outboard	05-07043	---
GF32467-00	PA-23 Left Wing Tip	05-07044	---
GF34267-01	PA-23 Right Wing Tip	05-07045	---
K16792-00	PA-23 Rudder Tip	05-11059	---

PA-24

MFR P/N	Description	Part No.	Price
GF20804-12	Fiberglass Bulkhead Assembly (Tail) PA-24-180 S/N 24-3337 & up. PA-24-250 S/N 24-2844 & up, PA-24-260	05-07016	---
GF21143	Fiberglass Lower Scoop Inlet PA24 (not for use on aircraft with cowl P/Ns 21950-07/-14, 22858-02, 22857-12, 24895-02/-17 or if carburetor air filter kit is installed)	05-07017	---
GF21555-00	Fiberglass Rudder Tip (w/o Antenna Slot) PA-24-180, PA-24-250	05-07018	---
GF21555-02	Fiberglass Rudder Tip (Antenna Slot) PA-24-180, PA-24-250	05-07019	---
GF21556-00	Fiberglass Stabilator Tip PA-24-180, PA-24-250, PA-24-260, PA-30 s/n 30-2 thru 30-1716 and 30-1718 thru 30-1744 inclusive	05-07021	---
GF21557-00	Fiberglass Vertical Fin Tip PA-24-180, PA-24-250	05-07022	---
GF21605-05	Fiberglass Bulkhead Assembly (Tail) PA-24-180 S/N 24-1 thru 24-3336, PA-24-250 S/N 24-105 thru 24-2843, PA-24-400	05-07023	---
GF24846-00	Fiberglass Rudder Cap PA-24-260	05-07032	---
GF24896-00	Fiberglass Vertical Fin Tip PA-24-260	05-07033	---
GF28041-00	Fiberglass Stabilator Tip PA24-250, PA-24-260. (Use if stabilator modification kit 760-747 has been installed.)	05-07036	---
K21947-00	PA-24 Comanche Cowl Scoop PA-24-180 & PA-24-250 S/N 24-1477 thru 24-2843. PA-24-250 S/N 24-103 thru 24-1476 if carburetor air filter kit 754 285 has been installed. PA-24-180 S/N 24-2844 thru 24-3163, PA-24-250 S/N 24-2844 & Up, PA-24-180 & PA-24-260 S/N 24-3164 & Up.	05-11060	---
K23451-00	PA-24 Rudder Tip	05-10861	---

PA-28/32

MFR P/N	Description	Part No.	Price
GF35885-03	PA-28 Lower Rudder Faring	05-07046	---
GF35885-10	PA-28 Lower Rudder Faring w/o Light	05-07047	---
GF35944-15	PA-28 Nose Wheel Faring Assembly 6.00 X 6 w/ Door	05-07049	---
GF67352-00	PA-28 Left Nose Gear Door Assembly	05-07073	---
GF67352-01	PA-28 Right Nose Gear Door Assembly	05-07074	---
GF37925-06	Aft Nose Gear Strut Fairing PA-28-181 S/N 28-7890001 & up.	05-15368	---
GF3A25-07	Forward Nose Gear Strut Fairing Models: PA-28-181 S/N 28-7890001 & up.	05-15280	---
GF78913-00	PA-28/32/44 Forward Dorsal	05-07083	---
GF79890-00	PA-28/32 Faring Left Main Wheel Shell	05-07084	---
GF79890-01	PA-28/32 Faring Right Main Wheel Shell	05-07086	---
GF79890-02	PA-28/32 Faring Left Main Wheel Access Panel	05-07087	---
GF79890-03	PA-28/32 Faring Right Main Wheel Access Panel	05-07088	---
GF79892-04	PA-28/32 Faring Assembly Left Upper Forward Main Wheel	05-07089	---
GF79892-05	PA-28/32 Faring Assembly Right Upper Forward Main Wheel	05-07091	---
GF79892-09	PA-28/32 Faring Assembly Main Wheel Right Upper AFT	05-07092	---

PA-28/32 CONT.

MFR P/N	Description	Part No.	Price
GF79892-10	PA-28/32 Faring Assembly, Main Wheel Left Upper AFT	05-07093	---
65300-00	PA-28 Stabilator Tip Extended	05-07111	---
K35512-00	PA-28-151/161 Faring Assembly Nose Wheel 5.00 X 5	05-07112	---
K65203-00	PA-28/32 Faring Assembly-Main Left Wheel	05-07113	---
K65203-01	PA-28/32 Faring Assembly Main Right Wheel	05-07114	---
K65331-00	PA-28/32 Faring Assembly Nose Wheel 6.00 X 6	05-07116	---
GF35944-014	Nose Wheel Pant. No Door 6.00 X 6 Tire PA-28 PA-32	05-11055	---
RD-0094-00	Stabilator Tip PA-28 PA-32 PA-44	05-12491	---

PA-30

MFR P/N	Description	Part No.	Price
GF25066	PA-30 S/N 30-1717 & 30-1745 & UP PA-39 Stabilator Tip	05-07034	---
GF23595-00	PA-30/39 Rudder Tip	05-07031	---

PA-31

MFR P/N	Description	Part No.	Price
GF40364-02	PA-31 Tip Stabilator	05-07050	---
GF42426-00	PA-31Faring Assembly Nacelle Left Outboard	05-07051	---
GF42426-01	PA-31 Faring Assembly Nacelle Right Outboard	05-07052	---
GF42455-00	PA-31 Faring Assembly Nacelle Left Top Inboard	05-07053	---
GF42455-01	PA-31 Faring Assembly Nacelle Right Top Inboard	05-07054	---
GF42455-02	PA-31 Faring Assembly Nacelle Left Forward Inboard	05-07056	---
GF42455-03	PA-31 Faring Assembly Nacelle Right Forward Inboard	05-07057	---
GF42455-04	PA-31 Faring Assembly Nacelle Left Bottom Inboard	05-07058	---
GF42455-05	PA-31 Faring Assembly Nacelle Right Bottom Inboard	05-07059	---
GF43741-00	PA-31 Elevator Left Tip	05-07062	---
GF43741-01	PA-31 Elevator Right Tip	05-07063	---
GF43786-00	PA-31 Elevator Leading EDGE	05-07064	---
GF44943-00	PA-31 Fin Tip	05-07069	---
GF55802-12	PA-31 Left Wing Tip w/Reco Light	05-07071	---
GF55802-13	PA-31 Right Wing Tip w/Reco Light	05-07072	---
K40363-1	PA-31 Series Rudder Tip	05-10862	---

PA-32

Description	Part No.	Price
PA-32 Nose Wheel Faring Assembly 6.00 X 6 With door	05-07048	---

PA-34

MFR P/N	Description	Part No.	Price
GF95620-07	PA-34 Stabilator Tip	05-07096	---
GF95907-00	PA-34 Rudder Tip Faring	05-07097	---
GF96338-04	PA-34 Upper Tail Cone	05-07103	---
GF96338-08	PA-34 Lower Tail Cone	05-07104	---

PA-38

MFR P/N	Description	Part No.	Price
GF77328-02	PA-38 Left Main Gear Wing Faring	05-07076	---
GF77328-03	PA-38 Right Main Gear Wing Faring	05-07077	---
GF77606-03	PA-38 Forward Dorsal Fin	05-07078	---
GF77606-08	PA-38 Dorsal Fin AFT	05-07079	---
GF77607-00	PA-38 Faring Dorsal Fin	05-07081	---
GF77613-00	PA-38 Lower Rudder Faring	05-07082	---

PA-44

Description	Part No.	Price
PA-44 Nacelle AFT Tip	05-07094	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

KNOTS 2U PIPER/CESSNA/COMMANDER PARTS

PA-60

MFR P/N	Description	Part No.	Price
GF200038-901	K2U Piper PA-60 Left Long Tip, Short Wing Assembly	05-07011	---
GF200038-902	K2U Piper PA-60 Right Long Tip, Short Wing Assembly	05-07012	---
GF200102-901	K2U Piper PA-60 Left Short Tip, Long Wing Assembly	05-07013	---
GF200102-902	K2U Piper PA-60 Right Short Tip, Long Wing Assembly	05-07014	---
GF220021-505	K2U Piper PA-60 Vertical Fin Tip w/o Beacon	05-07024	---
GF220021-903	K2U Piper PA-60 Horizontal Tip Assembly	05-07026	---
GF220021-913	K2U Piper PA-60 Vertical Tip Assembly With Beacon	05-07027	---

PA28/PA34

MFR P/N	Description	Part No.	Price
GF78022-00	K2U Piper PA-28 / Pa-34 Wing Tip Left 4 Inch Nav Pad	05-14684	---
GF78022-01	K2U Piper PA-28 / Pa-34 Wing Tip Right 4 Inch Nav Pad	05-14685	---
GF78022-02	K2U K2U Piper PA-28 / Pa-34 Wing Tip Left 6 Inch Nav Pad	05-14971	---
GF78022-03	K2U Piper PA-28 / Pa-34 Wing Tip Right 6 Inch Nav Pad	05-14972	---

CESSNA

MFR P/N	Description	Part No.	Price
GF55200-00	K2U Cessna 170/172 Lower Cowl Lip	05-07070	---
K0741648-01	K2U Cessna 182T T182T Left Wheel Fairing Assembly	05-07107	---
K0741648-02	K2U Cessna 182T T182T Right Wheel Fairing Assembly	05-07108	---
K0743050	K2U Cessna 182T T182T Nose Fairing Assembly	05-07109	---
K1234640-1	K2U Cessna 206/207/210 Late Models Tip Elevator LH	05-10858	---
K1234640-2	K2U Cessna 206/207/210 Late Models Tip Elevator RH	05-10859	---
K0531006-34	K2U Cessna 172 Models Rudder Cap	05-11056	---
K0531006-112	K2U Cessna 172 Rudder Cap	05-11057	---
K0531012-2	K2U Cessna 172 Dorsal Fairing	05-11058	---
F0531033-1	Vertical Fin Tip GF0531033-1	05-11975	---
GF1212010-00	K2U Cessna 206 207 210 Fiberglass Tail Stinger	05-15525	---
K0421002-1	K2U Cessna 150/152 Strut Faring Lower left	05-11019	---
K0421002-2	K2U Cessna 150/152 Strut Faring Lower Right	05-11020	---
K0522150-4	K2U Cessna 150/172/175 Strut Fairing Upper Left	05-11024	---
K0522150-3	K2U Cessna 150/172/175 Strut Fairing Upper Right	05-11023	---
K0522150-1	K2U Cessna 172/175 Strut Faring Lower Left	05-11021	---
K0522150-2	K2U Cessna 172/175 Strut Faring Lower Right	05-11022	---
K0723605-1	K2U Cessna 180/182 Strut Faring Lower Left	05-11025	---
K072305-2	K2U Cessna 180/182 Strut Faring Lower Right	05-11026	---
GF0532001	Elevator Tip Left 28-09-L	05-11968	---
GF0532001	Elevator Tip Right 28-09-R	05-11969	---
GF 0532001-00	Fiberglass Stabilizer Tip LH or RH. Cessna 172 (1963 & Up)	05-11970	---
GF 0531006-80-791	Fiberglass Rudder Bottom. Cessna 172 1969 thru 85.	05-11971	---

COMMANDER

MFR P/N	Description	Part No.	Price
GF175009-3	K2U Commander 112 Left Wing Tip	05-07008	---
GF175009-8	K2U Commander 112 Right Wing Tip	05-07009	---
GF43367-210	K2U Commander 114 TAIL Stinger	05-07060	---
GF43650-501	K2U Commander 112/114 Dorsal Fairing	05-07061	---
GF44233-11	K2U Rockwell Commander 114 Rudder Cap	05-07066	---
GF44300-3	K2U Rockwell Commander Vertical Fin Cap	05-07067	---
GF44324-400	K2U Commander 112/114 Tip Stabilator	05-07068	---

BEECH

MFR P/N	Description	Part No.	Price
GF105-1010-00	K2U Beech 76 Left Wing Tip	05-06995	---
GF105-1010-01	K2U Beech 76 Right Wing Tip	05-06996	---
GF108-1700-00	K2U Beech 77 Left Wing Tip	05-06997	---
GF108-1700-01	K2U Beech 77 Right Wing Tip	05-06998	---
GF108-4400-17	K2U Beech 77 Tail Cone	05-06999	---
GF169-1100-00	K2U Beech 23/24 Left Wing Tip	05-07002	---
GF169-1100-01	K2U Beech 19/23/24 Right Wing Tip	05-07003	---
GF169-420028-11	K2U Beech 19/23/24 Fuel Sump Drain Cover	05-07004	---
GF169-440013-11	K2U Beech 19/23/24 Dorsal	05-07006	---
GF169-4411-S	K2U Beech 19/23/24 Tail Conr	05-07007	---
GF96110010-17	K2U Beech 55/56/58 Fairing Engine Nacelle Left Outboard	05-07098	---
GF96110010-19	K2U Beech 55/56/58 Fairing Engine Nacelle Right Outboard	05-07099	---
GF96110010-21	K2U Beech 55/56/58 Fairing Engine Nacelle Left Inboard	05-07101	---
GF96110010-23	K2U Beech 55/56/58 Fairing Engine Nacelle Right Inboard	05-07102	---
GF96-4415-00	K2U Beech 55/58 Dorsal Saddle	05-07106	---
K33-440011-2	K2U Beechcraft 33 & 3 Models Dorsal Fin	05-11061	---
GF169-910013-157	K2U Beech 19 23 24 Faring Lower Cowl	05-11963	---

KNOTS 2 U CIRRUS NOSE WHEEL FAIRING

This nose wheel fairing is made of carbon fiber for a superior weight to strength ratio compared to the OEM part. We have also included a door for checking the tire pressure! K15312-001. Finish - White Primer, ready for paint. **Replaces**: Cirrus part 12446-105, 12446-106, 15312-002, 15310-001, 15310-002, 15312-001. **Aircraft Eligibility**: Cirrus Models SR20 S/N 1005 thru 1885, SR22 S/N 0528 thru 2437. FAA-PMA Approved.

P/N 05-11986 ..... ---

KNOTS 2 U CESSNA WHEEL FAIRING

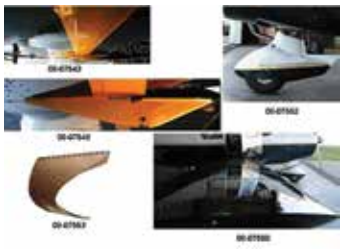
K2U Fiberglass Replacement of Main Wheel Pant Assembly with Door.

Right.....P/N 05-22069 ..... ---

Left .....P/N 05-15512 ..... ---

SEE WEBSITE FOR AIRCRAFT ELIGIBILITY

LAMINAR FLOW PIPER SPEED MODS



The first and still the best! Laminar Flow has been producing high quality Speed Mods for the Piper fleet since 1983. All of their products are time tested, race proven (with the results documented by such well respected publications as Aviation Consumer) and come with a money back guarantee. LFS under-wing Speed Mods are fabricated from aircraft grade aluminum eliminating the cracking and warping that frequently occur when composite components are fastened to a metal wing.

Aircraft Modification	Aircraft Model	Gains / Installation Time	Part No.	Price
Aileron Gap Seal Square Wing	All PA 28 / 32	3 MPH / 1.5 Hrs	08-07543	---
Aileron Gap Seal Taper Wing	All PA 28 with Taperwing	3 MPH / 2 Hrs	08-07544	---
Flap Gap Seals	PA 34	3 MPH / 2.5 Hrs	08-07546	---
Flap Gap Seals	All PA 28 / 32	3 MPH / 2.5 Hrs	08-07547	---
Flap Hinge Fairings 8 Pairs	PA 34	2 MPH / 4 Hrs	08-07549	---
Tank Fairings / Smoothing Kit	PA 28 / 32	4-15 MPH / 5-15 Hrs	08-07550	---
Tank Fairings / Smoothing Kit Lance and Seneca	PA 32R / 34	8-15 MPH / 10-15 Hrs	08-07551	---
Fixed Nose Fairing	All Fixed Gear PA 28 / 32 to 1978	2-3 MPH / 2 Hrs	08-07552	---
Wheel Well Fairings	PA 28R Only	3 MPH / 4 Hrs	08-07553	---
Wheel Well Fairings	PA 32 / 34	4 MPH / 3 Hrs	08-07554	---

AP

PIPER WING INSPECTION COVER

05-27416

05-27417

Piper Wing Inspection Cover in Aluminum or Clear Lexan
Applicability: Piper J-3, L-4, NE-1, NE-2, PA-11, PA-12, PA-14, PA-15, PA-16, PA-17, PA-18, PA-19, L-18, L-21, PA-20, PA-22, PA-25
Specifications: • FAA-PMA Approved • Supercedes part numbers 82461-000, 82461, 82461-00, 82461-2
Aluminum.....P/N 05-27416 ..... ---
Clear Lexan .....P/N 05-27417 ..... ---

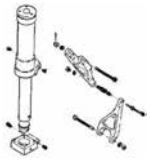
STABILATOR CABLE KITS FOR PIPERS

McFarlane has complete stock of FAA-PMA stabilator cables for the Piper aircraft affected by AD 2013-02-13 (except PA-44) and Piper Service Bulletin 1245A.
McFarlane flight controls cables offer quality that is second to none in the aircraft industry, and a set of four stabilator cables typically costs over $200 less than the equivalent Piper cables. Cables are available individually or as complete airplane kits at 15% savings. McFarlane also stocks all common turnbuckle barrels and clips. Convenient and money saving kits include all four stabilator cables (two forward and two aft), two MS21251-B5S turnbuckle barrels and ten MS21256-1 locking clips (spares always come in handy).

Description	Part No.	Price
Stabilator Cable Kit For Piper PCKT-STAB-01	05-10727	---
Stabilator Cable Kit For Piper PCKT-STAB-02	05-10728	---
Stabilator Cable Kit For Piper PCKT-STAB-03	05-10729	---
Stabilator Cable Kit For Piper PCKT-STAB-04	05-10730	---
Stabilator Cable Kit For Piper PCKT-STAB-05	05-10731	---
Stabilator Cable Kit For Piper PCKT-STAB-06	05-10732	---
Stabilator Cable Kit For Piper PCKT-STAB-07	05-10733	---
Stabilator Cable Kit For Piper PCKT-STAB-08	05-10734	---
Stabilator Cable Kit For Piper PCKT-STAB-10	05-10736	---
Stabilator Cable Kit For Piper PCKT-STAB-11	05-10737	---
Stabilator Cable Kit For Piper PCKT-STAB-12	05-10739	---

SEE WWW.AIRCRAFTSPRUCE.COM FOR APPLICATION CHART

TORQUE LINK REPAIR KITS FOR PIPER AIRCRAFT



Torque Link Repair Kits for Piper Aircraft. Solves many wheel shimmy problems. Save up to 60%. **Features**: • Convenient kits replace all common wear torque link components • Fits most prop driven Piper aircraft • Contains all FAA approved parts and standard hardware • Save time and money! No more research and ordering of individual parts.

SEE WWW.AIRCRAFTSPRUCE.COM FOR APPLICATION CHART AND PRICING.

CONTROL SURFACE BUSHINGS

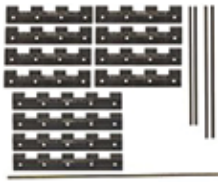
Piper Long Bushing U80022-044
P/N 05-15332 ..... ---
Piper Short Bushing U80022-045
P/N 05-15333 ..... ---

PIPER FLIGHT CONTROL CABLE KITS

It is a tedious and time consuming job to research the part manuals for all of the cables required for a complete aircraft. You not only gain tremendous time savings with McFarlane cable kits, you receive substantial price discounts. All components are fully traceable, high quality, and proof tested.
See our website for a detailed list of kit components.

Description	Part Number	Price
PCKT200-03 Flight Control Cable Kit	05-04629	---
PCKT200-07 Flight Control Cable Kit	05-04630	---
PCKT200-04 Flight Control Cable Kit	05-04631	---
PCKT200-08 Flight Control Cable Kit	05-04632	---
PCKT200T-01 Flight Control Cable Kit	05-04633	---
PCKT200T-02 Flight Control Cable Kit	05-04634	---
PCKT200T-03 Flight Control Cable Kit	05-04635	---
PCKT200T-04 Flight Control Cable Kit	05-04636	---
PCKT220T-01 Flight Control Cable Kit	05-04637	---

PIPER TRIM HINGE KITS



Trim Hinge Kits for Piper Aircraft. FAA-PMA Approved - Fits many popular Piper Aircraft.

Model No.	Description	Part No.	Price
PTH-KT-1	Trim Hinge	05-13093	---
PTH-KT-2	Trim Hinge	05-13094	---
PTP-KT-1	Trim Pin	05-13095	---
PTP-KT-2	Trim Pin	05-13096	---

PIPER NOSECONE BAGGAGE DOOR LATCH & PLACARD

Improved FAA-PMA direct replacement lock & placard for Piper aircraft series PA-23, PA-31, PA-42 Door Lock/Latch: Pre-assembled lock and offset cam helps prevent installation mistakes, Includes clear instructions. Placard: Contains both a black and white version to contrast with any paint scheme.

Description	Part No.	Price
Nosecone lock/latch assembly	05-13144	---
Nosecone placard	05-13145	---

STEP ASSY PA28 / PA44-180

AWI-AMI Step Assy PA28/PA44-180
Features: • New FAA Approved Piper Step Replaces Piper Part Numbers: 65384-00 • Fits Piper Models: PA-28-140, PA28-150, PA28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-181, PA-28-235, PA-28-236, PA-28-201T, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-44-180, PA-44-180T .....P/N 08-18721 ..... ---

PULLEY BUSHING

Pulley Bushing for Piper Bushing U80012-003. Applicability: Piper J-3, L-4, NE-1, NE-2, PA-11, PA-18, PA-19, L-18, L-21. Wing aileron pulley bushing. **Outer diameter**: 1/4 inch. **Inner diameter**: 3/16 inch. **Length**: 5/16 inch. FAA/PMA approved. Supercedes part numbers 80012-003, 80012-03, 80012-3, J2-453.....P/N 05-15331 ..... ---

FUEL STRAINER SEALS AND KITS FOR PIPER AIRCRAFT

05-06821

05-06828

05-06829

05-00126

FAA approved improved fuel strainer seals for Piper aircraft. Many of the new seals feature fuel proof fluorocarbon that won't swell or degrade like the original Buna N seals. All seals may be purchased separately, or in convenient kits containing both the upper and lower seal for one fuel strainer.

Model No.	Description	Spruce Part Number	Price
FSP-KT-1	Fuel Gasket Kit	05-06821	---
FSP-KT-2	Fuel Gasket Kit	05-06822	---
FSP-KT-3	Fuel Gasket Kit	05-06823	---
FSP-KT-4	Fuel Gasket Kit	05-06824	---
MC751-882	Gasket, Upper Seal	05-06825	---
MC753-205	Gasket, Lower Seal	05-06826	---
MC757-255	O-Ring, Upper Seal	05-06827	---
MC751-898	Gasket, Lower Seal	05-06828	---
CA751-871	Gasket, Fuel Strainer	05-06829	---
MS29513-008	O-Ring	05-00126	---
MS29513-043	O-Ring	05-06830	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

(FAA/PMA APPROVED)

PIPER NOSE COWLING
(ALL METAL)

PA 12 & 14

PA-20-22

J-3 & PA-11

Description	Part No.	Price
PA-11, For cowls using screws	P/N 05-07295	---
PA-11, For cowls using Lion fasteners	P/N 05-07305	---
J-3 Eyebrow baffle LH	P/N 05-00061	---
J-3 Eyebrow baffle RH	P/N 05-00062	---
Front piece for Top cowl	P/N 05-00063	---
Top cowl for J-3	P/N 05-00064	---
Bottom cowl for Continental powered J-3	P/N 05-00065	---
Front piece for bottom cowl	P/N 05-00066	---
Fuselage cowl	P/N 05-00067	---
Top cowl for PA-11	P/N 05-00068	---
Bottom cowl for PA-11	P/N 05-00069	---
Side cowl for PA-11LH	P/N 05-00071	---
Side cowl for PA-11 RH	P/N 05-00072	---

PA-12

Bottom cowl	P/N 05-00078	---
Top cowl	P/N 05-00079	---
Fuselage cowl	P/N 05-00081	---
Left side cowl	P/N 05-00082	---
Right side cowl	P/N 05-00083	---

PA-12 & 14

Nose cowl for all serial numbers	P/N 05-07310	---

PA-18 (95 HP)

PA-18, For cowls using screws	P/N 05-07295	---
PA-18, For cowls using Lion fasteners	P/N 05-07305	---
Left side cowl, used w/shielded ignition lead	P/N 05-00073	---
Right side cowl, used w/shielded ignition lead	P/N 05-00074	---
Top cowl	P/N 05-00075	---
Bottom cowl	P/N 05-00076	---
Bottom cowl, installed w/machine screws	P/N 05-00077	---

PA-18 - 105, 125, 135, 150 HP

Fuselage cowl, S/N 2168-5938,105, 125,135HP	P/N 05-00089	---
Fuselage cowl, S/N 5939-8019, 135, 150 HP	P/N 05-00091	---
Fuselage cowl, S/N 8020 and up, 150 HP	P/N 05-00092	---
PA-18-105 thru 125 HP, no starter hole	P/N 05-07315	---
PA-18-105 thru 125 HP, with starter hole	P/N 05-07320	---
PA-18-135 & 150 HP, w/starter hole & oil scoop	P/N 05-07325	---
PA-18-135 & 150 HP, w/oil scoop, no starter hole	P/N 05-07330	---
Top cowl, 105 HP	P/N 05-00093	---
Top cowl, 125, 135, 150 HP	P/N 05-00094	---
Left side cowl, 105 HP	P/N 05-00095	---
Right side cowl, 105 HP	P/N 05-00096	---
Left side cowl, 125, 135, 150 HP	P/N 05-00097	---
Right side cowl, 125, 135, 150 HP	P/N 05-00098	---
Lower cowl ass'y, 135 HP, S/N 3014 thru 4617	P/N 05-00099	---
Lower cowl ass'y, 150 HP, S/N 3771 thru 6963	P/N 05-04784	---
Lower cowl ass'y, 150 HP, S/N 6964 and up	P/N 05-00102	---

PA-20 & PA-22

PA-22-108, S/N 8000 & up, w/o oil scoop	P/N 05-07345	---
PA-20 Nose cowl, 115 HP	P/N 05-07335	---
PA-22 Nose cowl, S/N 1 thru 533	P/N 05-07335	---
PA-20 Nose cowl, 135 HP	P/N 05-07340	---
PA-20 Bottom cowl, 125 HP	P/N 05-00049	---
PA-20 Bottom cowl, 135 HP	P/N 05-00051	---
PA-22 Bottom cowl, 125 HP, S/N 1 – 353	P/N 05-00052	---
PA-22 Bottom cowl, 125 HP, S/N 354 – 533	P/N 05-00053	---
PA-22 Bottom cowl, 125 HP, S/N 534 – 1759	P/N 05-00054	---
PA-22 Bottom cowl,135-160HP, S/N 1760–7630	P/N 05-00055	---
PA-22(Colt) Bottom cowl, 108HP, S/N 8000 &up	P/N 05-00056	---
PA-22 Left side cowl	P/N 05-00057	---
PA-22 Right side cowl	P/N 05-00058	---
PA-20/22 Top center cowl	P/N 05-00059	---
PA-25 Pawnee Nose cowl, 150 HP	P/N 05-07340	---

ONE PIECE STAMPED ALUMINUM RIBS
(STC APPROVED)

These durable ribs are direct replacements for the original style "Truss" type ribs originally used by Piper. These ribs are designed for the various modes of Piper including J-3 and PA-18 with metal spars. The ribs listed are the more commonly requested ribs for this series.

Description	Part No.	Replaces	Price
Nose Rib	P/N 05-02389	12662-002	---
Nose Rib, Tip R/H	P/N 05-07375	16192-001	---
Full Rib	P/N 05-07380	13052-002	---
Full Butt Rib, L/H	P/N 05-07385	10634-000	---
Full Butt Rib, R/H	P/N 05-07390	10634-008	---
Full Tank Bay Rib, L/H	P/N 05-07395	10653-000	---
Full Tank Bay Rib, R/H	P/N 05-07405	10653-006	---
Full I.B. Ail. Bay, L/H	P/N 05-07410	13042-000	---
Full I.B. Ail. Bay, R/H	P/N 05-07415	13042-001	---
Full O.B. Ail. Bay, L/H	P/N 05-02387	12902-000	---
Full O.B. Ail. Bay, R/H	P/N 05-02393	12902-001	---
3/4 Rib	P/N 05-07430	13022-002	---
3/4 Butt Rib, L/H	P/N 05-02396	10634-005	---
3/4 Butt Rib, R/H	P/N 05-07440	10634-007	---
3/4 Tank Bay Rib	P/N 05-02397	10635-002	---

STABILIZER LINER TUBE

Forward Link Assembly Liner Tube (U86062-080) ..... P/N 05-07450 ..... ---
Rear Liner Tube (U86062-079) ..... P/N 05-07455 ..... ---

STABILIZER YOKE & ADJUSTMENT SCREW

Yoke ..... P/N 05-07465 ..... ---
Adjustment Screw ..... P/N 05-07470 ..... ---

CA452-538 PIPER STABILATOR BEARING

CA452-538 Piper stabilator bearing.
P/N 05-04626 ..... ---

WING NAVIGATION LIGHT BRACKET

For use with Grimes Model "E" Type Light or equivalent.
P/N 05-07460 ..... ---

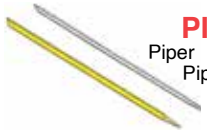
ENGINE MOUNTS

J-3 Continental Mount ..... P/N 05-00873 ..... ---
PA-11 Mount ..... P/N 05-00874 ..... ---

J-3, PA-11, PA-18

Left Gear, uncovered ..... P/N 05-07350 ..... ---
Right Gear, uncovered ..... P/N 05-07355 ..... ---

PIPER METAL WING SPARS



Piper Metal Wing Spars. Metal spar. Applicability: Piper J-3, PA-11, PA-18-95. Highlighted part in illustration. FAA/PMA approved.

Description	Part Number	Price
J-3 & Pa-11 Front LH Wing Spar	05-00875	---
J-3 & Pa-11 Front Right Wing Spar	05-12728	---
J-3 & Pa-11 Rear LH Wing Spar	05-06993	---
J-3 & Pa-11 Rear Right Wing Spar	05-12729	---

PIPER HEATER TEMPERATURE CONTROL LOCK

For years Piper PA28 and PA32 owners have been plagued with a Heater Temperature Control that will not stay positioned. This Heater Temperature Control Lock that can be installed in minutes and provides a positive adjustable lock for the Heater Control Lever.
P/N 08-04939 ..... ---

VERTICAL FIN EXP40592-00

Vertical Fin for Piper J-3/PA-11/PA-18. Experimental Only. Duplicate Part. Built to the same specifications as OEM 40592-00. ..... P/N 05-12467 ..... ---

AP

LIFT STRUTS FOR PIPER AIRCRAFT

05-21961

Eliminate repetitive AD inspections of your struts and Forks. These struts include the new heavy duty, heat treated, 5/8" rolled thread strut fork and nut.

Model Number	Description	Part Number	Price
U85556-002	PA-15/17 Front Lift Strut	05-21961	---
U85557-002	PA-15/17 Rear Lift Strut	05-21962	---
U85558-002	PA-16 Front Lift Strut	05-21963	---

LIFT STRUT FORKS FOR PIPER AIRCRAFT

Model Number	Description	Part Number	Price
U1600-01	5/8 Lift Strut Fork PA-15 & PA-17 Stainless Steel	05-21964	---
U11281-005	3/8 Inch Lift Strut Fork for PA-15 & Pa-17 U11281-005	05-21965	---

PA-15 AND PA-17 STABILIZER TUBE

Univair PA-15 & PA-17 Stabilizer Tube .....P/N 05-21971 ..... ---

PIPER PA-15/17 UNCOVERED AILERONS

Model Number	Description	Part Number	Price
U42585-000	Left Uncovered Aileron	05-21956	---
U42585-001	Right Uncovered Aileron	05-21957	---

PIPER CONTROL SYSTEMS

Model Number	Description	Part No.	Price
U40572-000	Elevator Uncovered	05-21951	---
U40622-000	Vertical Stabilizer	05-21952	---
U40643-000	Horizontal Stabilizer Uncovered	05-21953	---
PSK-1	Rudder Attach Hardware	05-21954	---
PSK-2	Elevator Attach Hardware	05-21955	---

SEE WWW.AIRCRAFTSPRUCE.COM FOR AIRCRAFT MODEL APPLICABILITY.

PIPER DECALS

Description	Part No.	Price
PA-15 Piper Cub Vagabond Blue Letters Decal	05-21958	---
PA-17 Trainer Blue Letter Decal	05-21959	---
PA-16 Piper Clipper Gold/Red Lettrs Black Trim Decal	05-21960	---

PIPER PA-15 / 17 WING RIBS

05-21925

Model Number	Description	Part Number	Price
U1233-00	PA-15/17 3/4 Rib Left or Right #4	05-21925	---
U1228-02	PA-15/17 Inboard Aileron Bay Rib Left #3	05-21926	---
U1228-03	PA-15/17 Inboard Aileron Bay Rib Right #3	05-21927	---
U01228-05	PA-15/17 Full Rib Left or Right #2	05-21928	---
U1227-02	PA-15/17 Butt Rib Left #1	05-21929	---
U1227-03	PA-15/17 Butt Rib Right #1	05-21930	---
U1229-00	PA-16 Butt Rib Left #	05-21931	---
U1224-00	PA-16 Tank Bay Rib Left #2	05-21932	---
U1232-00	PA-16 Inboard Aileron Bay Rib Left #3	05-21933	---
U1225-02	PA-16 3/4 Tank Bay Rib Left #4	05-21934	---
U1228-05	PA-16 Full Rib Right #2	05-21935	---
U1228-03	PA-16 Inboard Aileron Bay Rib Right #3	05-21936	---
U1233-00	PA-16 3/4 Rib Left #5 Right #4	05-21937	---
U1227-03	PA-16 Butt Rib Right #1	05-21939	---
RK-1501	PA-15/17 Rib Kit Left	05-21940	---
RK-1502	PA-15/17 Rib Kit Right	05-21941	---
RK-1601	PA-16 Rib Kit Left	05-21942	---
RK-1602	PA-16 Rib Kit Right	05-21943	---
15/17FM	PA-15/17 Flight Manual	13-00270	---
16PS	PA-16 Paint Scheme Manual	05-21945	---

PIPER PA-16 WING RIBS

05-21931

Model Number	Description	Part Number	Price
U1229-00	PA-16 Butt Rib Left #1	05-21931	---
U1224-00	PA-16 Tank Bay Rib Left #2	05-21932	---
U1232-00	PA-16 Inboard Aileron Bay Rib Left #3	05-21933	---
U1225-02	PA-16 3/4 Tank Bay Rib Left #4	05-21934	---
U1228-05	PA-16 Full Rib Right #2	05-21935	---
U1228-03	PA-16 Inboard Aileron Bay Rib Right #3	05-21936	---
U1233-00	PA-16 3/4 Rib Left #5 Right #4	05-21937	---
U1227-03	PA-16 Butt Rib Right #1	05-21939	---

RIB KITS

05-21940

Model Number	Description	Part Number	Price
RK-1501	PA-15/17 Rib Kit Left	05-21940	---
RK-1502	PA-15/17 Rib Kit Right	05-21941	---
RK-1601	PA-16 Rib Kit Left	05-21942	---
RK-1602	PA-16 Rib Kit Right	05-21943	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PIPER PARTS

(FAA/PMA APPROVED)

SPINNER ASSEMBLIES & COMPONENTS

Short Spinner Assembly for Piper
Models PA-12, PA-16, PA-18, PA-20 & PA-22 with O-235 or O-290 engines with AM series Sensenich propellers.
Spinner Dome ..... P/N 05-07670 ..... ---
Front Plate ..... P/N 05-07675 ..... ---
Back Plate ..... P/N 05-07680 ..... ---
Complete Assembly ..... P/N 05-07685 ..... ---

PA-25 Spinner Components
Assembly for Fixed Pitch Propellers serial numbers 2986-3691
Back Plate ..... P/N 05-07695 ..... ---
Front Plate ..... P/N 05-07705 ..... ---
Complete Assembly ..... P/N 05-07710 ..... ---

Spinner Components for 235 hp. with FA8452 McCauley Propeller.
Dome Only ..... P/N 05-07715 ..... ---
Back Plate ..... P/N 05-07720 ..... ---
Front Plate ..... P/N 05-07725 ..... ---
Spinner Assembly for PA-18/18A, 150 hp.For Dm Series Propellers.
Spinner Dome ..... P/N 05-07730 ..... ---
Front Plate ..... P/N 05-07735 ..... ---
Back Plate ..... P/N 05-07740 ..... ---
Complete Assembly ..... P/N 05-07745... ..... ---

RIB KITS FOR PIPERS

Description	Part Number	Price
J3 RIB KIT (LH)	05-02373	---
J3 RIB KIT (RH)	05-02374	---
PA18-150 RIB KIT (LH)	05-02375	---
PA18-150 RIB KIT (RH)	05-02376	---

INDIVIDUAL RIBS FOR PIPERS

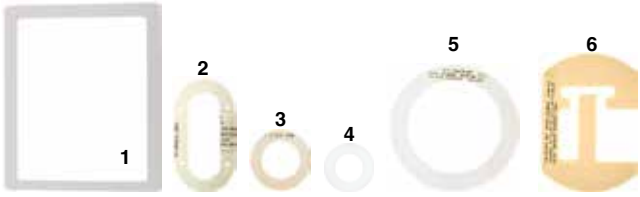
J-3

Piper#	Our P/N	Description	Price	# Per Wing
10742-002	05-02407	Tip Rib, LH #13	---	1
10742-003	05-02394	Tip Rib, RH #13	---	1
12662-002	05-02389	Nose Rib	---	10
12902-000	05-02387	Outboard Aileron Bay Rib, LH #12	---	1
12902-001	05-02393	Outboard Aileron Bay Rib, RH #12	---	1
13022-002	05-02386	3/4 Rib, #10 and #11	---	2
13022-002	05-02383	3/4 Rib, LH or RH #7	---	1
13022-002	05-02384	3/4 Rib, LH or RH #8	---	1
13022-005	05-02382	3/4 Rib. LH or RH #6	---	1
13022-006	05-02385	3/4 Rib, #9 at strut point	---	1
13042-000	05-02381	Inboard Aileron Bay Rib, LH #5	---	1
13042-001	05-02392	Inboard Aileron Bay Rib, RH #5	---	1
13052-002	05-02379	Full Rib, LH or RH #2	---	1
13052-002	05-07380	Full Rib, #3 and #4	---	2
13052-004	05-02378	Butt Rib, LH #1	---	1
13052-004	05-02391	Butt Rib, RH #1	---	1
15712-000	05-02390	Nose Rib at strut point	---	1
16192-000	05-02377	Tip Nose Rib, LH	---	1
16192-001	05-07375	Tip Nose Rib, RH	---	1

PA-18 150 HP

Piper#	Our P/N	Description	Price	# Per Wing
10634-0 05	05-02396	Butt Rib, LH #1	---	1
10634-007	05-02404	Butt Rib, RH #1	---	1
10635-002	05-02397	Tank Bay Rib, #2 and #3	---	2
10653-002	05-02398	3/4 Rib, LH #4	---	1
10653-005	05-02405	3/4 Rib, RH #4	---	1
10742-002	05-02407	Tip Rib, LH #16	---	1
10742-003	05-02394	Tip Rip, RH #16	---	1
12662-002	05-02389	Nose Rib	---	10
12902-000	05-02387	Outboard Aileron Bay Rib, LH #15	---	1
12902-001	05-02393	Outboard Aileron Bay Rib, RH #15	---	1
13022-002	05-02386	3/4 Rib, #10, #13 and #14	---	3
13022-009	05-02385	3/4 Rib, LH or RH, #11	---	1
13022-010	05-02403	3/4 Rib, LH or RH, #8	---	1
13022-011	05-02386	3/4 Rib, LH or RH, #9 and #12	---	2
13042-002	05-02402	3/4 Rib, LH #7	---	1
13042-003	05-04857	3/4 Rib RH #7	---	1
13042-003	05-04587	3/4 Rib, RH #7	---	1
13052-007	05-02399	3/4 Rib, LH or RH, #5	---	1
13052-009	05-02406	3/4 Rib, RH #6	---	1
13052-010	05-02401	3/4 Rib, LH #6	---	1
15712-000	05-02390	Nose Rib at strut point	---	1
16192-000	05-02377	Tip Nose Rib, LH	---	1
6192-001	05-02393	Tip Nose Rib, RH	---	1

COMMON PIPER GROMMETS



1) Grommet, Tail ..... P/N 05-07750 ..... ---
2) Grommet ..... P/N 05-07755 ..... ---
3) Grommet ..... P/N 05-07765 ..... ---
4) Grommet ..... P/N 05-07770 ..... ---
5) Grommet, Inspection Plate (original Piper type: 80122-49) P/N 05-07775 ..... ---
6) Grommet, Strut ..... P/N 05-07780 ..... ---

7) Grommet, Tail (used on PA-25 and later PA-18's) P/N 05-07785 ..... ---
8) Grommet, Tail ..... P/N 05-07790 ..... ---
9) Grommet, Cover ..... P/N 05-07795 ..... ---
10) Grommet, Pulley Cover ..... P/N 05-07800 ..... ---

PIPER FABRIC REINFORCEMENTS

Model	Dimension	Part No.	Price
U60863-005	2"W x 4-1/2"L	05-07625	---
U60863-003	2"W x 4-1/2"L	05-07635	---
U60863-002	2"W x 4-1/2"L	05-07630	---
U60481-000	2"W x 4-1/2"L	05-07620	---
U60863-009	2"W x 2-1/2"L	05-07640	---

J-3 FUEL VALVE

This J-3 fuel valve includes a steel handle for use with the original pushpull shut off control. this valve is a significant improvement over the original brass style fuel valve. The new valve has a stainless steel ball seated in an inert composite seat. This improved design eliminates the stiff operation and leaking around the shaft that the original design was prone to.
PMA approved ..... P/N 05-00848 ..... ---

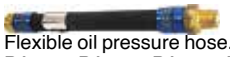
J-3/PA-11 THROTTLE CONTROL

FAA approved replacement throttle control.
P/N 05-03397 ..... ---

FLEXIBLE RUBBER BRAKE LINE

From brake master cylinder to copper lines on gear vee ..... P/N 05-07530 ..... ---

OIL PRESSURE HOSE



Flexible oil pressure hose. Applicability: Piper J-3, PA-11, PA-14, PA-16, PA-18, PA-20, PA-22, PA-28. Length: 6-3/4". FAA/PMA approved. Supercedes part numbers 71061-000, 71061-00.
P/N 05-07360 ..... ---

WING TIP BOWS

Preformed wooden wing tip bows for use in all Piper Aircraft Models J-3 to PA-22. It is recommended to soak the wing tip bows in water before installation to avoid breakage P/N 02-18500 ..... **---/ea.**
Note: Wing tip bows can be shipped via UPS with an oversized package rate equal to the 30 Lb. rate.

AP

HEAVY DUTY MUFFLER

Heavy Duty Muffler STC/PMA
P/N 05-03475 ..... ---

PRE-HEAT SHROUD PA-18

Pre-heat shroud PA-18 STC/PMA
P/N 05-03457 ..... ---

HEADER TANKS

Heavy duty light weight design is approximately 9 oz. PA-18, PA-19 STC
Front .....05-03468 ..... ---
Rear .....05-03469 ..... ---

PIPER DOOR HINGE CLEVIS PINS

Due to normal wear and lack of lube, the door hinge clevis pins should be replaced from time to time to maintain the proper operation of the doors. The set includes 2 clevis pins, 2 thick washers, 2 thin washers, and 2 cotter keys. All the hardware is FAA approved for Piper PA28, PA32, and PA34 aircraft.....P/N 05-03633 ..... ---

PIPER DOOR HINGE EYEBOLT SET

The eyebolts are probably the most neglected parts on the plane. They hardly ever get lubricated and due to their exposure to the elements, rust in the pivot point can prevent the door from closing properly and should be replaced from time to time as they wear. The set contains two of the proper eyebolts and detailed installation instructions. The hardware is FAA approved for Piper PA28, PA32, and PA34 aircraft.
Rear Door .....P/N 05-03636 ..... ---
Front Door .....P/N 05-03635 ..... ---

FOLDING JUMP SEATS

Folding Jump Seats - 170, 172, 172S, 175, 180, 180K, 182, 182R, 185, A185F STC/PMA

Description	Part No.	Price
Right hand pair	05-03470	---
Left & right hand pair	05-03472	---

FOLDING FRONT SEAT KIT

Kit STC .....P/N 05-03474 ..... ---

PIPER PA-34 EXTERIOR PASSENGER DOOR HANDLE

Piper PA-34 exterior passenger door handle. Cabin Door Handle (Plastic). **Dimensions**: 1" x 3" x 0.75" (WxLxH) ..... P/N 05-12476 ..... ---

BUSHING WITH RETAINING RING FOR PIPER AIRCRAFT

Cowl Bushing R-Ring MC69790-00 - Material that outlasts the original nylon or glass filled teflon materials. Used on most Piper Cherokee models. Includes the retaining ring (snap ring).
P/N 05-01764 ..... ---

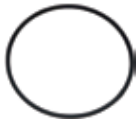
COWL PLATE ASSEMBLY MC69791-000 - Stainless steel mounting plate with MC69790-00 teflon glass bushing and MC484-840 retaining ring. Upper cowl retaining part for most Piper Cherokee models ....P/N 05-04476 ..... ---

PIPER PA-28-181 ENGINE BAFFLES

Model No.	Description	Part No.	Price
AF63605-00	Baffle	05-12684	---
AF85485-002	Baffle	05-12685	---
AF85485-004	Baffle	05-12686	---
AF85485-014	Baffle	05-12687	---
AF85485-015	Baffle	05-12688	---
AF85486-002	Baffle	05-12689	---
AF85486-003	Baffle	05-12690	---
AF85486-009	Baffle	05-12691	---
AF85487-002	Baffle	05-12692	---
AF85487-003	Baffle	05-12693	---

PIPER 31 ENGINE BAFFLE

AF41606-13.....P/N 05-12679 ..... ---



V-BELTS FOR PIPER AIRCRAFT

This V-Belt has received FAA-PMA approval for a high quality V-Belt used on many Piper aircraft.

OEM P/N	Description	Part No.	Price
M73965-003	V-BELT A37.50	05-26633	---
M73965-009	V-BELT B40.55	05-26634	---
M73965-010	V-BELT C40.55	05-26635	---
M73965-011	V-BELT D35.00	05-26636	---
M73965-016	V-BELT E39.09	05-26637	---
M73965-020	V-BELT E42.08	05-26638	---
M73965-023	V-BELT E22.08	05-26639	---

VENTED FUEL CAPS

Vented Fuel Caps J3 thru PA-22 STC
P/N 05-03459 ..... ---

180HP FUEL CAP

180 Fuel Cap PA-12 thru PA-18 with 180HP Engine.
P/N 05-03458.....---

UNDER SEAT BATTERY RACK

Under Seat Battery Rack PA 18 STC
P/N 05-03460 ..... ---

REFUELING STEP

Refueling Step J3 thru PA-22 STC. **Note**: Priced and sold each. Image is for reference only. Does not come as a pair ...P/N 05-03462 ..... ---

MAIN LANDING GEAR LONG STEP

Main landing gear Long Step J3 thru PA-19 STC
P/N 05-03461 ..... ---

WELD ON AIRCRAFT FLOAT FITTINGS

Weld on aircraft float fittings PA-12, -14, P/N 05-03476
PA-18 P/N 05-03477 STC
Float Fittings PA-12/14.....P/N 05-03476 ..... ---

MAIN LANDING GEAR SAFETY CABLES

Main Landing Gear Safety Cables (All STC)
Standard Gear J-3, PA-11, PA-18, PA-19 ...P/N 05-03463 ..... ---
3" Extension Gear.....P/N 05-03464 ..... ---
Standard Gear PA-12, PA-14 .....P/N 05-03465 ..... ---
3" Extended Gear PA-12, PA-14 .....P/N 05-03466 ..... ---

AILERON HINGE FOR PIPER

Piper Eligibility PA-28-140,-150, -160, -180, -235; PA-28R-180,-200,-201,-201T; PA-28-181, -236, -201T; PA-28-181,-236, -201T; PA-32-260, -300; PA-32R-300; PA-32-RT-300, -300T; PA-34-200
P/N 05-04197 ..... **--- ea.**

PIPER J3 EXHAUST SYSTEM

New Manufactured, FAA/PMA Approved, Stainless Steel Original Design, Exhaust Headers and Muffler with Safety Bail already installed.
1- Left exhaust stack .....P/N 05-07475 ..... ---
2- Right exhaust stack.....P/N 05-07480 ..... ---
3- Muffler Assembly, less shroud .....P/N 05-07485 ..... ---
4- Tailpipe .....P/N 05-07490 ..... ---
5- Tailpipe Shroud.....P/N 05-07495 ..... ---
6- Muffler Shroud .....P/N 05-07505 ..... ---
7- Slide Clip.....P/N 05-07510 ..... ---
8- Muffler stack connecting clamp (2 req.) .P/N 05-07515 ..... ---
9- Tailpipe brace clamp.....P/N 05-07520 ..... ---
10- Muffler clamp .....P/N 05-07525 ..... ---

PIPER DOOR LATCH CLEVIS PIN

Restore solid latching of the doors to the fuselage Due to normal wear and lack of lube, the door latch clevis pin should be replaced from time to time to maintain the proper operation of the door. The set includes 1 clevis pin and 1 cotter key. All the hardware is FAA approved for Piper PA28, PA32, and PA34 aircraft.
P/N 05-04644 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PA18 UPPER DOOR

Constructed using all square tubing. FAA approved. .....P/N 05-00459 ..... ---

PA18 LOWER DOOR

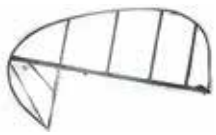
Latching mechanism greatly improved over original. Utilizes push rods instead of wires. Powder coated ....P/N 05-00460 ..... ---

PA18 STABILIZER

Bushings installed, powder coated and ready to cover. FAA-PMA approved.
P/N 05-00461 ..... ---

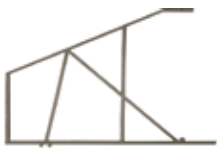
PA18 ELEVATOR

Bushings installed, powder coated and ready to cover. FAA-PMA approved.
P/N 05-00462 ..... ---



PA18 RUDDER

Bushings installed, powder coated and ready to cover. FAA-PMA approved.
P/N 05-00463 ..... ---



PA18 VERTICAL FIN

Bushings installed, powder coated and ready to cover. FAA-PMA approved.
P/N 05-00464 ..... ---
Crate Charge applies.

PA18 TAILPOST

Bushings installed, powder coated and ready to cover. FAA-PMA approved.
P/N 05-00465 ..... ---

FLAP HINGE-OUTBOARD

For fabric wing piper models, powder coated. FAA-PMA approved.
P/N 05-00480 ..... ---

PA 18 FUSELAGE HANDLE

Oversized lifting handle can be used with winter gloves, 8" long with 2" clearance. Weld on, FAA-PMA approved.
P/N 05-00477 ..... ---

AILERON HINGE

For fabric wing piper models. Powder coated. FAA-PMA approved.
P/N 05-00478 ..... ---

PA-18 8.5' SPAR BLANK

P/N 05-03596 ..... ---

PIPER PA-18 BLANK INSTRUMENT PANEL

Piper PA-18 Blank instrument panel.
Specifications: • 8 inches high
Applicability: Piper PA-18
P/N 05-22400 ..... ---

SEALED LIFT STRUTS
WITH HEAVY DUTY FORKS

FAA-PMA - complies with all A.D.'s - high strength struts will not fail under wind or snow loads. $20 CRATE CHARGE FOR LIFT STRUTS

Description	Part Number	Price
PA 18 Front Lift Strut	05-00485	---
PA 18 Heavy Duty Rear Lift Strut	05-00486	---
PA 12-14 Front Lift Strut	05-00487	---
PA 12-14 High Strength Rear Lift Strut	05-00488	---
PA18 Rear Lift Strut	05-03868	---
J-3 Front Strut	05-04931	---
J-3 Rear Strut	05-04932	---

PA18 ARCHES FOR FABRIC FORMERS

Complete set of 6 "turtle deck" arches precut to correct size, weld on as is. FAA-PMA
Per Set.....P/N 04-00469 ..... ---

PA 18 WING FITTINGS

Weld on, FAA-PMA approved.
Front left side.....P/N 05-00470 ..... ---
Front right side.....P/N 05-00471 ..... ---
Rear left side.....P/N 05-00472 ..... ---
Rear right side .....P/N 05-00473 ..... ---

PA 18 LANDING GEAR / LIFT STRUT FITTING

Piper PA-18 Landing Gear and Lift Strut fitting. Weld on, FAA-PMA approved. Left or right hand. Supercedes U12184-003.
P/N 05-00475 ..... ---

PA 18 FRONT GEAR FITTING

Weld on, FAA-PMA approved. Fits right or left side.
P/N 05-00476 ..... ---

PA-18 125 135 150 EXHAUST SYSTEM

PA-18 Exhaust Systems - FAA/PMA Approved
PA-18 125, 135, 150 hp. Exhaust System

Description	Part No.	Price
Muffler and Shroud Assy. (Pictured)	05-07560	---
Muffler Clamp, SN 1-3013 (2 Req.)	05-07515	---
Muffler Clamp, SN 3014 and up (2 Req.)	05-07570	---
Muffler Shroud 150HP.	05-07585	---
Front Shroud Assy.	05-07590	---
Front Cylinders Stack Assy.	05-07595	---
Rear Cylinders Stack Assy.	05-07605	---
Clip (for 12436-000/-010)	05-07610	---
Clip (for 14239-000)	05-07615	---

PA-18 SUPERCUB PARTS

FRONT LOWER WINDOW CHANNEL
Left Side ..... FAA-PMA .....P/N 05-00491 ..... ---

AFT LOWER WINDOW CHANNEL
Left Side ..... FAA-PMA .....P/N 05-00492 ..... ---

FRONT WINDOW CHANNEL
Left Side ..... FAA-PMA .....P/N 05-00493 ..... ---

UPPER WINDOW FORMER
Left Side ..... FAA-PMA .....P/N 05-00494 ..... ---

FORWARD VERTICAL WINDOW CHANNEL
Left Side ..... FAA-PMA .....P/N 05-00495 ..... ---

AFT VERTICAL WINDOW CHANNEL
Left Side ..... FAA-PMA .....P/N 05-00496 ..... ---

PIPER PA-18 FAIRINGS

Examples of Fairings are for Reference Only!

Description	A/C Model	Part No.	Price
Upper Wing Root Fairing	Piper PA-14, PA-15, PA-16, PA-17, PA-18, PA-20, PA-22	05-14961	---
Bottom Front Wing Root Fairing - Left	Piper PA-18	05-07572	---
Bottom Front Wing Root Fairing - Right	Piper PA-18	05-07573	---
Rear Bottom Fairing - Left	Piper PA-18	05-07574	---
Rear Bottom Fairing - Right	Piper PA-18	05-07576	---
Wing Root Fairing - Left	Piper PA-18	05-07579	---
Wing Root Fairing - Right	Piper PA-18	05-07581	---
Fairing Attachment Plate - Left	Piper PA-18	05-07582	---
Fairing Attachment Plate - Right	Piper PA-18	05-07583	---

ADDITIONAL FAA-PMA PARTS FOR PA18 SUPERCUB

Description	Part No.	Price
Piper hinge - half	05-00510	---
Interior tab	05-00511	---
Pulley bracket	05-00512	---
Pulley bracket	05-00513	---
Forward elevator pulley half	05-00514	---
Flap lever hinge - weld on fuselage or seat	05-00516	---
Shock strut	05-00518	---
Fuel selector bracket	05-00520	---
Tailspring bracket	05-00521	---
Tailspring mount pad - forward	05-00522	---
Aileron pulley bracket	05-00523	---
Floorboard tabs	05-00525	---
Cabane Vee	05-00526	---
Elevator horn	05-00530	---
Rudder horn blank	05-00531	---
RH Rudder Pedal Assembly	05-00532	---
LH Rudder Pedal Assembly	05-00533	---
RH Brake Pedal Assembly	05-00534	---
LH Brake Pedal Assembly	05-00535	---
3/8" U Channel - 6' Lengths	05-04564	---
Exhaust stack rear - PA18 150 HP	05-07605	---
Muffler Assembly - PA18 150 hp	05-00544	---

PA18 LANDING GEAR

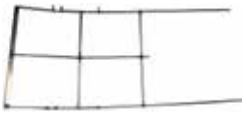
Specify right or left side.
11/4 axle, heavy duty; FAA-PMA
P/N 05-00489 .....

11/2 axle, heavy duty; FAA-PMA
LEFT.....P/N 05-00490 ..... ---
1-1/2 Axle, Heavy Duty, FAA/PMA
.....RIGHT .....P/N 05-11813

REAR TORQUE TUBE SUPPORT & BEARING
Weld on; FAA-PMA .....P/N 05-00497 ..... ---

FRONT TORQUE TUBE SUPPORT & BEARING
Weld on; FAA-PMA .....P/N 05-00498 ..... ---

HEAVY DUTY 5/8 LIFT STRUT FORK
Rolled threads, stainless, heat treated.
P/N 05-00501 ..... ---



TOP DECK SUPERSTRUCTURE
Top Deck ..... P/N 05-00502 ..... ---
$30 CRATE FEE

JACK SCREW TOWER
P/N 05-00503 ..... ---
$20 CRATE FEE

MUFFLER BAIL U452-093
Muffler Bail Welded inside muffler outlet to guard against Flame Tube failure and obstruction of exhaust outlet.
P/N 05-02150 ..... ---

TAIL REPAIR SECTION - 4'
Without Jack screw tower.
P/N 05-00504 ..... ---
With Jack screw tower
P/N 05-00505 ..... ---
Crate fee applies.

FUEL QUANTITY TRANSMITTER FOR PIPER AIRCRAFT
McFarlane fuel quantity transmitters are a direct replacements for originally installed Stewart Warner type fuel quantity transmitters. Eliminates the need for expensive transmitter conversion kits that require replacement of fuel gauges and wiring. These transmitters are engineered to be compatible with the original fuel quantity gauge and wiring which uses time proven technology and reliability.
Each transmitter is manufactured using the new Stewart Warner "thick film ceramic" resistor technology. The benefits are longer life and increased accuracy. All components are thoroughly tested to ensure reliable operation.
Note: Does NOT include screw/seal assembly or gasket (see accessories to order separately).
MC68101-02 kit .....P/N 05-04874 ..... ---
Accessories - See our website for application information.
Transmitter MC68101-02 .....P/N 05-04870 ..... ---
Gasket MC461-931 .....P/N 05-04871 ..... ---
GA Gasket SKET MC462-021 .....P/N 05-04872 ..... ---
Pack of 5 - Screw Seal Assy. MC1802 .....P/N 05-04873-5 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PIPER / LUSCOMBE PARTS

PIPER J3 STYLE PARTS

These experimental Piper J3 like style parts will help you achieve the pre or post war appearance you are looking for without taking away from the performance. **NOT FAA APPROVED.**

Description	Part No.	Price
Landing Gear - Left - 3/8" Bolts	05-12281	---
Landing Gear - Right - 3/8" Bolts	05-12282	---
Hub Caps - Sold as Pair	05-12283	---
Tail Spring 1-1/4"	05-12284	---
Cabane Vee Assembly - 5/16" Bolts	05-12286	---
Cabane Vee Assembly - 1/4" Bolts	05-12287	---
Axle Nut 1-1/4"	05-12288	---
Step	05-12289	---
Shock Strut Assembly - 1-Long & 1-Short	05-12290	---
Rudder	05-12291	---
Trim Crank	05-12293	---
Escutcheon Spring	05-12295	---
Bellcrank Assembly with Tube	05-12296	---
Rudder Return Spring - 1 Spring	05-12298	---
Rudder Pedal Floor Plate - 1 Plate	05-12299	---
Rudder Pedal Clamp - 1 Clamp	05-12300	---
Torque Tube	05-12301	---
Control Stick Connector	05-12302	---
Stick Assembly with Socket	05-12303	---
Throttle Handle Set with Interconnect	05-12304	---

Description	Part No.	Price
Throttle - 1 Throttle	05-12305	---
Throttle Interconnect - 1 Interconnect	05-12306	---
Throttle Knob - 1 Knob	05-12307	---
Fuel On/Off Well	05-12308	---
Carb Heat On/Off Well	05-12309	---
Trim Cover Plate	05-12310	---
Cabin Heat Air Box	05-12311	---
Floorboards - Pair	05-12312	---
Rear Seat Cross Tube	05-12313	---
Front Seat Frame - Standard	05-12314	---
Front Seat Frame - Heavy Duty	05-12315	---
Brake Pedal Kit - 2 pieces	05-12316	---
Exhaust Stack - Left	05-12317	---
Exhaust Stack - Right	05-12318	---
Nose Cowl Ram Air Box	05-12321	---
C-75 - O-200 Generator Cover Plate	05-12322	---
C-75 - O-200 Starter Cover Plate	05-12323	---
Fiberglass Nose Bowl Set	05-12324	---
Continental Lifting Eye	05-12325	---

AP

(FAA/PMA APPROVED)

LUSCOMBE 8E & 8F EXHAUST STACKS

Left Hand Exhaust Stack
P/N 05-07805 ..... ---
Right Hand Exhaust Stack
P/N 05-07810 ..... ---

LUSCOMBE CABIN HEAT SHROUD

8E & 8F AND 8A-2pc Stacks
P/N 05-07820 ..... ---

LUSCOMBE 8A CARBURETOR & CABIN HEAT SHROUD

FAA/PMA approved.
P/N 05-08115 ..... ---

RUDDER & ELEVATOR HINGE PIN & BRACKET

Hinge Pin.....P/N 05-07825 ..... ---
Hinge Pin Bracket.....P/N 05-07830 ..... ---

GAS CAP & LANDING LIGHT LENS

Luscombe Gas Cap.P/N 05-07835 ..... ---
Landing Light Lens..P/N 05-07840 ..... ---
Landing Light Lens..P/N 05-07845 ..... ---

VERTICAL FIN FRONT ATTACH

Fitting.....P/N 05-07985 ..... ---

Note: This fitting is welded 4130 steel and complies with all provisions of A.D. 79-25-05. This fitting is required only on those Luscombes with the "round tip" vertical stabilizer.

TAILWHEEL LEAF SPRINGS

Complete Assembly
P/N 06-14600 ..... ---
Main Leaf Only
P/N 06-14700 ..... ---

ALL-ALUMINUM LANDING GEAR FAIRING

FOR STANDARD GEAR

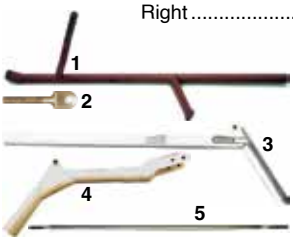
Left.....P/N 05-07865 ..... ---
Right .....P/N 05-07870 ..... ---

FOR SILFLEX GEAR

Left.....P/N 05-07875 ..... ---
Right .....P/N 05-07880 ..... ---

FAA/PMA LANDING GEAR PARTS

(FOR STANDARD GEARS)



Left Hand Jack Strut (1)
P/N 05-07885 ..... ---
Right Hand Jack Strut (1)
P/N 05-07890 ..... ---
Fork End (S-9) (2)
P/N 05-07895 ..... ---
Left Hand Lower Leg (3) .....P/N 05-07900 ..... ---
Right Hand Lower Leg (3).....P/N 05-07905 ..... ---
Left Hand Upper Arm (4).....P/N 05-07910 ..... ---
Right Hand Upper Arm (4) .....P/N 05-07915 ..... ---
Tie Rod without fittings, 361/4" long (5) .....P/N 05-07920 ..... ---
Left Hand Jack Strut (Silflex).....P/N 05-07930 ..... ---

FAA/PMA WING PARTS

Left hand aileron.....P/N 05-00452 ..... ---
Right hand aileron .....P/N 05-00453 ..... ---
Left hand lift strut (metal wing).....P/N 05-00454 ..... ---
Right hand lift strut (metal wing) .....P/N 05-00455 ..... ---
Carry-thru spar (front or rear).....P/N 05-00456 ..... ---

FAA/PMA TAIL SECTION PARTS

Fin, square tip.....P/N 05-07940 ..... ---
Rudder, square tip.....P/N 05-07945 ..... ---
Rudder Horn for square tip rudder.....P/N 05-07950 ..... ---
Tailwheel Leaf Spring Assembly.....P/N 06-14600 ..... ---
Main Leaf only.....P/N 06-14700 ..... ---
Rudder & Elevator Hinge Pin .....P/N 05-07825 ..... ---
Rudder & Elevator Hinge Pin Bracket.....P/N 05-07830 ..... ---

LUSCOMBE PARTS

(FAA/PMA APPROVED)

AP

ALL ALUMINUM COWLING

Nose Cowl ..... P/N 05-04769 ..... ---
Bottom Cowl ..... P/N 05-07995 ..... ---
Top Cowl ..... P/N 05-08000 ..... ---
L/H Cowl ..... P/N 05-08005 ..... ---
R/H Cowl ..... P/N 05-08010 ..... ---

Note: Cowling is trimmed oversize requiring a finish trim for each individual airplane.

REPLICA CLASSIC LUSCOMBE WHEEL PANTS

These fiberglass wheel fairings are a copy of the classic metal fairings used on many classic Luscomb and other Aircraft. The streamline ridges on each side of the fairing make these more stylish than the rest! These units are NOT FAA approved. Sold as a set, but left and right are the same, and the installer must make the cut-outs for installation. Installation brackets and hardware are not provided. Some finish work will be required before paint. Length: 30". Width: 10-1/2". Height: 13-3/4". Wheel Cut Out Dimensions: 19" X 8-1/2".

Weight: 3.75 Lbs ..... P/N 05-11834 ..... ---

FIREWALL DISHPAN

Used on Luscombe with an electrical system..... P/N 05-08015 ..... ---

FIREWALL TO ENGINE MOUNT RUBBER BUSHING

6 ea. required per aircraft.
P/N 05-08020 ..... ---

LUSCOMBE ENGINE MOUNT

For all Continental powered Luscombe, A-65 thru C-90 ..... P/N 05-08025 ..... ---

MANUALS

8A Owner's Manual
P/N 13-00230 ..... ---
8E Owner's Manual
P/N 13-00235 ..... ---
8 Series Master Parts List, illustrated
P/N 13-00240 ..... ---
Service Manual, early fabric wings
P/N 13-00245 ..... ---

BLANK INSTRUMENT PANEL

Luscombe Blank Instrument Panel.
Applicability: Luscombe 8 Series
FAA/PMA approved..... P/N 05-08030 ..... ---

CONTROL CABLES (GALVANIZED)

Luscombe Control Cables.
- Applicability: Luscombe 8 Series
- Galvanized steel
- FAA/PMA approved

Description	Dimensions	Part No.	Price
Brake Cable Assembly	--	05-08035	---
Early Elevator Cable	12' 11-3/4"	05-08040	---
Late Elevator Cable	13' 1-7/8"	05-08045	---
Left Hand Rudder Cable	15' 2-7/8"	05-08050	---
Right Hand Rudder Cable	15' 3-5/8"	05-08055	---
Stick To Aileron Cable	18' 2-3/8"	05-08065	---
Left Hand Aileron Cable	16' 7/8"	05-08070	---
Left Hand Balance Cable	15' 10-3/4"	05-08075	---
Forward Trim Cable	75' 7-7/16"	05-08080	---
AFT Trim Tab Cable	140-1/16"	05-08085	---

8A EXHAUST COMPONENTS
FITS ALL A-65 CONTINENTAL ENGINES

Luscombe 8A Exhaust Components - Fits all A-65 Continental Engines. • Applicability: Luscombe 8 Series • Galvanized steel • FAA/PMA approved

Description	Part No.	Price
Rear Crossover	05-08090	---
Left Hand Stack	05-08095	---
Right Hand Stack	05-08100	---
Exhaust Clamp	05-08105	---
Complete Assembly (includes 2 exhaust clamps)	05-08110	---

ERCOUPE FIBERGLASS SUPER NOSE BOWL

Ercoupe Fiberglass Super Nose Bowl - KE2-635 SMK 72 - STC SA3502WE. The KE2-635 Super Nose Bowl has been developed to allow owners and operators of Univair (ERCO) 415-C, A-2, F-1 and M10 series aircraft to replace their aging OEM aluminum nose bowls with a fiberglass replacement nose bowl; ERCO 415-40421, 415-40451, 415-40460E, Forney F4063. The KE2-635 Fiberglass Replacement Nose Bowl provides the same fit and finish as the OEM aluminum article with the advantage of improved airflow, durability and reparability.
P/N 05-22909 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

STINSON PARTS

(TYPE CERTIFICATE APPROVED)

EXHAUST SYSTEM

Muffler
SN 1-3109 ..... P/N 05-04819 ..... ---
SN 3110 and up ..... P/N 05-04820 ..... ---
Perforated Tube
SN 1-3109 ..... P/N 05-04821 ..... ---
Perforated Tube
SN 3110 and up ..... P/N 05-04822 ..... ---
Tailpipe, Left Hand
SN 112-3109 ..... P/N 05-04823 ..... ---
SN 3110 and up ..... P/N 05-04825 ..... ---
Tailpipe, Right Hand
SN 112-3109 ..... P/N 05-04825 ..... ---
SN 3110 and up ..... P/N 05-04826 ..... ---

HEAT SHROUDS

Carb. Heat Shroud .. P/N 05-08165 ..... ---
Cabin Heat Shroud, For SN 744 & up
P/N 05-04827 ..... ---
Shroud Clip ..... P/N 05-08175 ..... ---

COMPLETE SPINNER ASSEMBLIES

READY FOR INSTALLATION FOR STINSON WITH WOOD OR METAL PROPELLERS.

05-08180

05-04835

Wood Propeller Spinner Assembly ..... P/N 05-08180 ..... ---
Metal Propeller Spinner Assembly ..... P/N 05-04835 ..... ---

CUFF AIR INDUCT

For 108, 108-1, 108-2, 150 hp. (SN 1-2249) .. P/N 05-08190 ..... ---
For 108-2, 108-3, 165 hp. (SN 1-2249) ..... P/N 05-08195 ..... ---

FUEL GAUGE & SENDER

DIRECT REPLACEMENT FOR ORIGINAL AC GAUGE AND SENDER

Gauge ..... P/N 05-08200 ..... ---
Sender ..... P/N 05-08205 ..... ---

RUDDER ARM

Stinson Rudder Arm.. P/N 05-08210 ..... ---

CARBURETOR AIR FILTER

For Franklin 150-165 hp. Stinson 108 Series
P/N 05-08215 .....

Leading Edge Slat for all 108 Series.
P/N 05-08220 .....

STINSON MANUALS

108 Series Parts Catalog ..... P/N 05-08230 ..... ---
General Service Manual ..... P/N 05-08235 ..... ---
Service Bulletins and Letters ... P/N 05-08240 ..... ---
Stinson Specs, ADs and STCs P/N 05-08245 ..... ---
108 CAA Operating Limits ..... P/N 05-08250 ..... ---
108-1 CAA Operating Limits .... P/N 05-08255 ..... ---
108-2 CAA Operating Limits .... P/N 05-08265 ..... ---
108-3 CAA Operating Limits .... P/N 05-08270 ..... ---
108-1 Owner's Manual ..... P/N 05-08275 ..... ---
108-2 Owner's Manual ..... P/N 05-08280 ..... ---
108-3 Owner's Manual ..... P/N 05-08285 ..... ---
108-1 Seaplane Operating Limits ..... P/N 05-08290 ..... ---
108-2 Seaplane Operating Limits ..... P/N 05-08295 ..... ---
108-3 Seaplane Operating Limits ..... P/N 05-08300 ..... ---
108 Ski-Plane Supplement ..... P/N 05-08305 ..... ---
108-1 Ski-Plane Supplement ..... P/N 05-08310 ..... ---
Appendix A Supplement ..... P/N 05-08315 ..... ---
Stinson Story of Aircraft Progress ..... P/N 05-08320 ..... ---
Stinson Time-Speed-Distance Computer ..... P/N 05-08325 ..... ---
Stinson Computer Instructions ..... P/N 05-08330 ..... ---

ALUMINUM NOSE COWL

Applicable to 108 through 108-3 series Stinsons.
Nose Cowl ..... P/N 05-04786 ..... ---
Bottom Cowl ..... P/N 05-04787 ..... ---
Left side Cowl ..... P/N 05-14973 ..... ---
Right side Cowl ..... P/N 05-00088 ..... ---

LANDING GEAR FAIRINGS

Left Fairing ..... P/N 05-08340 ..... ---
Right Fairing ..... P/N 05-08345 ..... ---

FUSELAGE TO LANDING GEAR FILLETS

Left ..... P/N 05-08350 ..... ---
Right ..... P/N 05-08355 ..... ---

ENGINE COWL LEVER ASSEMBLY

Cowl Fastener Assembly ..... P/N 05-08365 ..... ---
Cowl Fastener Receptacle ..... P/N 05-08375 ..... ---
Receptacle Cup ..... P/N 05-08380 ..... ---

WING LIFT STRUTS

Front Strut ..... P/N 05-08385 ..... ---
Rear Strut ..... P/N 05-08390 ..... ---

LANDING LIGHT LENS

Landing Light Lens .. P/N 05-08225 ..... ---

PITOT TUBE

Pitot Tube ..... P/N 05-08395 ..... ---

CONTROL SURFACE BEARING

Control Surface Bearing ..... P/N 05-08400 ..... ---

CONTROL CABLES

Description	No. Req'd	P/N	Price
Aileron Idler Cable	2	P/N 05-08405	---
Aileron Control Cable	2	P/N 05-08410	---
Flap Control Cable	2	P/N 05-08415	---
Rudder Cable—1946, 1947	2	P/N 05-08420	---
Rudder Cable, 1948	2	P/N 05-08425	---
Aileron Idler Cable (in fuselage)	1	P/N 05-08430	---
Control Column Cable, Left Half	1	P/N 05-08435	---
Control Column Cable, Right Half	1	P/N 05-08440	---
"Up" Elevator Cable	1	P/N 05-08445	---
"Down" Elevator Cable	1	P/N 05-08450	---
Upper Flap Control Cable (in fuselage)	1	P/N 05-08455	---
Elevator Tab Control Cable, SN 1 thru 2249	1	P/N 05-08465	---
Elevator Tab Control Cable, SN 2250 and up	1	P/N 05-08470	---
Rudder Trim Cable, SN 2250 and up	2	P/N 05-08475	---
Rudder Trim Driver Cable, SN 2250 and up	1	P/N 05-08480	---

STRUT FILLETS

Rear Lift Strut Upper Fillet
Left ..... P/N 05-08485 ..... --- ea.
Rights ..... P/N 05-08490 ..... --- ea.
Forward Lift Strut Upper Fillet
Left ..... P/N 05-08495 ..... --- ea.
Right ..... P/N 05-08500 ..... --- ea.

AP

OTHER WING COMPONENTS - ALL FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Drag Wire	Most 7, 8 and 11 Series	1-2527-2	05-06292	---
Drag Wire	Most 7, 8 and 11 Series	1-2595-2	05-05481	---
Bottom Center Wing Gap Cover	Most 7 Series	3-455	05-05827	---
Aileron Control and Balance Cable	7AC, 7EC, 7FC, 7GC, 7GCA, 7GCB, 7HC, 7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	1-2339	05-05404	---

RIB COMPONENTS - FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Rib Stiffener	Most 7 & 11 Series	2-699	05-05691	---

Note on Model Eligibility: We have made every effort possible to detail installation eligibility for Aeronca parts based upon the best information we have available. If you are uncertain as to whether a specific OEM part number may be installed on your aircraft, you must consult either your aircraft owner or service manuals, or check with your mechanic. We do not warrant that models listed in the catalog are accurate in all instances. Please call us if you have questions about specific part numbers and model eligibility and we can research your question prior to your order.

BRAKE COMPONENTS & TOE BRAKE KITS - ALL FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Cable Brake Assembly, LH	11A, 11B, 11C	2-7762	05-06317	---
Brake Pedal - Right	7A, 7ACA, 7BCM, 7CCM, 7DC, 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KCAB, 8GCBC, 8KCAB	1-2613R	05-06320	---

OLEO STRUT & COMPONENTS - FAA/PMA'D

05-05760

05-06323

Description	Models	OEM P/Ns	Part No.	Price
Oleo Bushing, Shock Strut	Most 7 & 11 Series	1-2565	05-06323	---
Oleo Packing 12"	Most 7 & 11 Series (need one per strut)	1-2119	05-05373	---

FUEL TANKS & COMPONENTS ALL FAA/PMA'D

05-06357

05-05448

Description	Models	Strap Length	OEM P/Ns	Part No.	Price
Vented Fuel Cap	Most 7 & 11 Series	---	1-2593-1	05-06357	---
Fuel Shut Off Universal Joint	Most 7 Series	---	1-2458	05-05448	---

ENGINE BAFFLE ASSEMBLY & COMPONENTS ALL FAA/PMA'D

05-06376

Description	Models	OEM P/Ns	Part No.	Price
Cylinder Head Baffle Spring	7AC, 7BC, 7BCM, 7CCM, 7DC7EC, 7FC, 11A, 11B, 11C	1-1776	05-06376	---

If the baffle you need is not listed, please call and inquire. We have many more Aeronca, Bellanca and Champion baffles. Too many to list here.

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WINDOWS, WINDOW SETS & SKYLIGHTS - ALL FAA/PMA'D

Factory fresh, free from distortion. Manufacturer guarantees their windows and skylights to be optically perfect and free from defects. Please specify year, model and serial number of your aircraft when ordering. Many out-of-date aircraft have been modified and measurements included with the order will help alleviate any problems if your aircraft is not standard. Check or charge card number must accompany order. Orders are noncancellable and nonreturnable. All windows and skylights available in green or grey tint at additional 20% charge. Windows and skylights requiring a Certificate of Authenticity for export have an additional $80.00 charge. Windows and skylights. Shipped FOB factory. Prepayment required.

Description	Models	LP Aero P/N	OEM P/Ns	Part No.	Price
Left Front Sliding Window Forward (clear)	Most 7 Series	231	3-572 (replaces 3-469, window only)	05-02783	---
Left Front Sliding Window Rearward (clear)	Most 7 Series	232	3-573 (replaces 3-470, window only)	05-02784	---
Rear Window (Left or Right) (clear)	Most 7 Series	233	7-463	05-02785	---
Right Front Door Window (clear)	Most 7 Series	234	7-538	05-06406	---
Right Door Window Bubbled	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC	291	4-1446	05-02821 (clear)	---
				05-06409 (green)	---
Left Rear Bubbled Window	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC	290	7-1256-L	05-06411 (clear)	---
Right Rear Bubbled Window	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC	289	7-1256-R	05-02820 (clear)	---
Left Front Swinging Bubbled Window	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC	297	4-1487	05-06438 (clear)	---
				05-06439 (green)	---
				05-06440 (gray)	---
Left or Right Door - Front Sliding Window (clear)	11AC, 11BC, 11CC, S11AC, S11BA, S11CC	225	4-715	05-06441	---
Left or Right Door - Rear Sliding Window (clear)	11AC, 11BC, 11CC, S11AC, S11BA, S11CC	226	4-714	05-06444	---
Left or Right Rear Window (clear)	11AC, 11BC, 11CC, S11AC, S11BA, S11CC	227	4-594	05-06447	---
Left Front Pilot Window (clear)	14-19-3A, 17-30, 17-30A, 17-31A, 17-31ATC (Viking)	816	196940-1	05-06450	---

SKYLIGHT

Description	Models	LP Aero P/N	Color	Part No.	Price
7ACA, 7GCBC, 7ECA, 7GCAA, 7KCAB, 8GCBC, 8KCAB	7-1286	288GT	Clear	05-02818	---
			Green	05-02819	---

WINDOW SETS

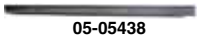
Description	OEM P/Ns	Part No.	Price
Window Set - Includes one each left front sliding window fwd., left front sliding window rwd. right and left rear bubble window and right door bubble	231, 232, 289, 290 & 291	05-06465	---

WINDOW & WINDSHIELD FRAMES & COMPONENTS

05-05737

05-02200

05-06301



05-05438

Description	Models	OEM P/Ns	Part No.	Price
Retainer - RT Side Windshield	7gcaa, 7gcbc	3-474-1R (RT)	05-06301	---
U Rubber Channel	Meets AN, MS, NAS, or MIL-Spec	CH-35	05-02200	---
End Stiffener LT Rear Sliding Window	Most 7 Series	1-2418-1	05-05437	---
End Stiffener LT Front Sliding Window	Most 7 Series	1-2418-2	05-05438	---

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05-06046

ELEVATORS & COMPONENTS ALL FAA/PMA'D

Description	Models	OEM P/Ns	Cat. No.	Price
Up Elevator Cable	7ECA, 7GC, 7GCA, 7HC, 7KC, 8KCAB, 8GCBC	3-1072	05-05764	---

TAIL FEATHER COMPONENTS & HARDWARE ALL FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
		1-2398-2 (unpainted)	05-06379	---
Bolt (Code 5)	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC	AN23-40	AN23-40	---
Pin (Code 5)	7, 8 & 11 Series	AN394-71	05-06382	---
Cable - Front to rear rudder pedal	7AC, 7BCM, 7CCM, 7DC, 7EC, 7GC, 7GCBC, 7CCA, 7GCBA, 7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC	1-2280	05-05384	---

CARB AIR SCOOP AND HEATER BOX ASSEMBLIES FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Carb Air Scoop Bearing Plate Assembly	Most 7 & 11 Series	1-2563	05-05465	---
Carb Air Scoop Valve Assembly	7GCBC, 7ECA, 7GCAA, 7KCAB	2-2141	05-05670	---
NAPA Air Filter - Direct replacement of FRAM	7GCA, 7GCB, 7GC, 7HC ***EXPERIMENTAL ONLY**	CA161PL	05-06388	---

HARDWARE PARTS ALL FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Socket-Control Stick Bushing	Most 7 & 8 Series	1-2550	05-06390	---
Oleo Shock Strut Bushing	Most 7 & 11 Series	1-2565	05-06323	---
Oleo Strut Bushing	Most 7 & 11 Series. Except 7AC, 11AC	1-2788	05-05505	---
Cable - Front to rear rudder pedal	7AC, 7BCM, 7CCM, 7DC, 7EC, 7GC, 7GCBC, 77CCA, 7GCBA,7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC.	1-2280	05-05384	---
Rectangular Gasket	Most 7 & 8 Series	1-10019	05-06393	---
Cleveland O-Ring*	---	101-50353	05-06395	---
Cushioned Clamps - Loop-type, Cushioned, line support clamps, made of aluminum alloy. Cushion is non-fuel resistant.				
5/8" Clamp*	---	MS21919-DG10	MS21919-DG10	---
1/8" Clamp*	---	MS21919-DG2	MS21919-DG2	---
3/16" Clamp*	---	MS21919-DG3	MS21919-DG3	---
1/4" Clamp AN742-4*	---	MS21919-DG4	MS21919-DG4	---
7/16" Clamp*	---	MS21919-DG7	MS21919-DG7	---
Pulley*	---	(AN210) MS24566-4B	MS24566-4B	---
Anti Friction Bearing Pulley (Non-Metallic)*	MS24566-3B	MS24566-3B	MS24566-3B	---
Cylinder Head Baffle Spring	Most 7AC-7FC, & 11Series	1-1776	05-06376	---
Bowden Cables - (solid wire ends). Spiral wound galvanized wire casing. Used for push-pull controls of any length. I.D. .078 and O.D. 7/32" dia.				
Bowden Cable Casing, 23" long	11AC, 11B	1-2578-7	05-05475	---

*** Meets AN, MS, or Mil-Spec**

Note on Model Eligibility: We have made every effort possible to detail installation eligibility for Aeronca parts based upon the best information we have available. If you are uncertain as to whether a specific OEM part number may be installed on your aircraft, you must consult either your aircraft owner or service manuals, or check with your mechanic. We do not warrant that models listed in the catalog are accurate in all instances. Please call us if you have questions about specific part numbers and model eligibility and we can research your question prior to your order.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

(FAA/PMA APPROVED)

WING LIFT STRUTS

New, Improved Steel Struts—Sealed and Oiled to prevent Internal Corrosion. (Except Decathlon aluminum front struts)

7AC Front Strut ..... P/N 05-08515 ..... ---
7AC Rear Strut ..... P/N 05-08520 ..... ---
Citabria Front Strut ..... P/N 05-08535 ..... ---
Decathlon Front Strut, Left ..... P/N 05-08545 ..... ---
Decathlon Front Strut, Right ..... P/N 05-08550 ..... ---
Decathlon Rear Strut ..... P/N 05-08555 ..... ---
Scout Front Strut ..... P/N 05-08565 ..... ---
Scout Rear Strut ..... P/N 05-08570 ..... ---

Heavy Duty Wing Lift Struts - Wall tube: .049" & complies with ad 77-22-05 for: Aeronca: 7AC, Champion: 7EC, Citabria: 7ECA. Visit our website for complete application info.

11AC Front Strut ..... P/N 05-08525 ..... ---
11AC Rear Strut ..... P/N 05-08530 ..... ---

WING LIFT STRUT FORK

P/N 05-08575 ..... ---

7AC CONTROL CABLES (GALVANIZED STEEL)

Short Aileron Cable (2 req'd) ..... P/N 05-08580 ..... ---
Rudder Cable, Long (2 req'd) ..... P/N 05-08585 ..... ---
Rudder Cable, Short (2 req'd) ..... P/N 05-08590 ..... ---
Aileron Control Cable (4 req'd) ..... P/N 05-08595 ..... ---
Brake Cable and Housing Assembly (2 req'd), (PMA App.) P/N 05-08600 ..... ---
Brake Cable Only (2 req'd) ..... P/N 05-08605 ..... ---
Down Elevator Cable (1 req'd) ..... P/N 05-08610 ..... ---
Down Elevator Cable ..... P/N 05-08615 ..... ---
Trim Cable (2 req'd) ..... P/N 05-08620 ..... ---
Up Elevator Cable (1 req'd) ..... P/N 05-08625 ..... ---

CITABRIA AIR INDUCTION TUBE

P/N 05-08630 ..... ---

CITABRIA FUEL GAUGE COVER

P/N 05-08635 ..... ---

TAILBRACE WIRE LUG

P/N 05-08640 ..... ---

EXHAUST SYSTEM FOR 7AC/11AC

LH Stack ..... P/N 05-08705 ..... ---
RH Stack ..... P/N 05-08710 ..... ---
Heat Muff ..... P/N 05-08715 ..... ---

CITABRIA FUEL VENT DEFLECTOR

P/N 05-08655 ..... ---

AERONCA 7AC STYLE HUB CAPS

These experimental Aeronca 7AC like style Caps will help you achieve the pre or post war appearance you are looking for without taking away from the performance. Sold as a pair....P/N 05-12326 .....

AERONCA 7AC STYLE CONTROL STICK WOOD KNOBS

These experimental Aeronca 7AC like style Control Stick Wood Knobs will help you achieve the pre or post war appearance you are looking for without taking away from the performance. Sold as a pair.

P/N 05-12327 ..... ---

MAGNETO BLAST TUBE ASSEMBLY

Magento Blast Tube Assembly. 7ECA, 8KCAB, 8GCBC..... P/N 05-09141 ..... ---

STAINLESS STEEL TAILBRACE WIRE

7AC, 7EC, 7FC—UPPER & LOWER

Citabria, Decathlon, Scout—Lower

1. Wire Only ..... P/N 05-08665 ..... ---
3. Assembly ..... P/N 05-08670 ..... ---

Citabria, Decathlon, Scout—Upper

2. Wire Only ..... P/N 05-08675 ..... ---
4. Assembly ..... P/N 05-08680 ..... ---

ALL ALUMINUM COWLING

This nose cowl is approved for the Aeronca with a 65 or 75 HP Continental engine. The depth is 7.25", top to bottom, 25.25" and left to right, 34.25".

Nose Cowl ..... P/N 05-08685 ..... ---
Fuselage Cowl (7AC only) P/N 05-08690 ..... ---
Top Cowl ..... P/N 05-08695 ..... ---
Bottom Cowl ..... P/N 05-04772 ..... ---

LANDING GEAR U-BOLTS

Citabria/Decathlon. ..... P/N 05-08645 ..... ---
Scout (new style) ..... P/N 05-08650 ..... ---
(Hardware required—see below)

MC0541153 U-BOLT

MC0541153 U-Bolt ..... P/N 05-26710 ..... ---

LANDING GEAR ATTACH HARDWARE FOR CITABRIA, DECATHLON, SCOUT

For Citabria and Decathlon

Nut (6 required) ..... P/N 05-08720 ..... ---
Bolt (2 required) ..... P/N 05-08725 ..... ---
Cupped Washer (2 req.) ..... P/N 05-08730 ..... ---
Washer (6 required) ..... P/N 05-08735 ..... ---

For Scout

Nut (6 required) ..... P/N 05-08720 ..... ---
Bolt (2 required) ..... P/N 05-08745 ..... ---
Cupped Washer (2 req.) ..... P/N 05-08730 ..... ---
Washer (6 required) ..... P/N 05-08735 ..... ---

OLEO SHOCK STRUT

Fits 7ECA, 7GCAA and 7GCBC:
with High Energy Taxi Spring ..... P/N 05-08740 ..... ---
with Standard Spring ..... P/N 05-08750 ..... ---
Fits 7AC and 11AC ..... P/N 05-08755 ..... ---
7AC and 11AC Spring Only ..... P/N 05-08760 ..... ---

LANDING GEAR OLEO CASE FRAME

Oleo Case Frame (Uncovered)

7AC & 11AC Series ..... P/N 05-08765 ..... ---
Early Citabria ..... P/N 05-08770 ..... ---

TAILWHEEL LEAF SPRINGS – COMPLETE SETS

Citabria/Decathlon (short) ..... P/N 05-08780 ..... ---
Scout (long) ..... P/N 05-08785 ..... ---

LANDING GEAR AXLE ASSEMBLY FOR AERONCA & CITABRIA

Early Citabria Axle Strut
P/N 05-08790 ..... ---
Aeronca Axle Strut
P/N 05-08795 ..... ---

AERONCA WING SPIN SUPPORT BLOCK

P/N 05-05337 .....

AP

NAVION – TAYLORCRAFT PARTS

(FAA/PMA APPROVED)

NAVION PARTS

Aircraft Spruce is a factory authorized distributor for these Navion parts manufactured under FAA/PMA approval. These parts are eligible for installation on all Navion models unless otherwise noted.

AP

Description	Navion P/N	Part No.	Price
Digital fuel qty gauge Main	147-40002-1001	05-04274	---
Digital fuel qty gauge MN/AUX	147-40002-1002	05-04275	---
Digital fuel qty gauge L/R	147-40002-1003	05-04276	---
Fuel level Transmitter 5 hole	173-70010-20	05-04277	---
Fuel level Transmitter AUX TNK	145-51071-4	05-04279	---
Fuel level Transmitter TIP TNK	161.30015.67	05-04280	---
Flush Fuel Cap	147-30012-150	05-04281	---
Mixture Cable-Vernier	205-30001-1002	05-04283	---
Propeller Cable-Vernier	205-30001-1003	05-04284	---
Baggage Door	--	05-04285	---
Overhead Panel	147-40002-136-1	05-04286	---
Cable Roller Assembly Set of 4	145-52301-3	05-04287	---
Pilot & Co-Pilot Shoulder Restraints	173-53001	05-04289	---
Nose Gear Seal Kits	145-S145-34102-900	05-04290	---
Main Gear Seal Kit	145S33102-900	05-04291	---
Aft. Equipment rack	147-40005	05-04292	---
Texas Patch LH	161-31023-1	05-04293	---
Texas Patch RH	161-31023-2	05-04294	---
Canopy Felt with Inst Letter 28	--	05-04295	---
Heated Pitot Tube Mast	161-51002-11	05-04296	---
Sloped Windshield	162-31801	05-04297	---

(FAA/PMA APPROVED)

TAYLORCRAFT ENGINE MOUNT

For 65 hp. Continental . P/N 05-08955 ..... ---
For 85 hp. Continental . P/N 05-08960 ..... ---

TAYLORCRAFT EXHAUST SYSTEM

For all 65 hp. Continental engines in B series through BC 12 series..... P/N 05-08965 ..... ---

TAYLORCRAFT B, BC, & LIFT STRUTS
(OILED AND SEALED)

Taylorcraft Front Lift Strut .....P/N 05-08970 ..... ---
Taylorcraft Rear strut.....P/N 05-08975 ..... ---
Note: all post WWII will not work on a Taylor A/C F/L2M

TAYLORCRAFT LEADING EDGE SKINS

Outboard Leading Edge (54 1/4") .....P/N 05-08980 ..... ---
Center Leading Edge (57 1/4").....P/N 05-08985 ..... ---
Inboard Leading Edge (64") .....P/N 05-08990 ..... ---
Note: all post WWII will not work on a Taylor A/C F/L2M

TAYLORCRAFT HEAT SHROUD

P/N 05-08995 ..... ---

TAYLORCRAFT ALUMINUM NOSE COWL

Applicable to B series and BC12D Continental powered Taylorcraft (cowl grills not included)
P/N 05-09005 ..... ---

TAYLORCRAFT NOSE COWL GRILLS

Stamped aluminum grills with natural aluminum finish. For all standard Taylorcraft nose cowls.
Left Grill .....P/N 05-09010 ..... ---
Right Grill.....P/N 05-09015 ..... ---

TAYLORCRAFT AILERON BALL STUD

P/N 05-07229 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CLEVELAND WHEELS & BRAKES FOR HOMEBUILTS

Wheels with matching hydraulic disc brakes are made from magnesium alloy castings to give a lightweight, durable unit. Wheels complete with bearings and wheel covers. Brake assembly has linings installed. Sold in pairs only.

500 x 5, Wt. 5.75 Lbs. Each (Wheel P/N 40-78B, Brake P/N 30-9)

Kit P/N 199-102 (Standard Disc).....**---/pr**
Kit P/N 199-102C (Chrome Disc).....**---/pr.**
Use Lining P/N 66-106. Fits 1-1/4" dia. axles.

600 x 6, Wt. 7-3/4 Lbs. Each (Wheel P/N 40-59A, Brake P/N 30-59A)
Kit P/N 199-104 (Standard Disc).....**---/pr.**
Kit P/N 199-104C (Chrome Disc).....**---/pr.**
Use Lining P/N 66-112. Fits 1-1/2" dia. axles.

600 x 6, with Master Cylinders for Defiant
Special set consists of (2) P/N 40-75B wheels, (2) P/N 30-52 brake assemblies and (2) P/N 10-34 master cylinders.
P/N 199-133X..... ---

500 x 5 NOSE WHEEL - Magnesium, with bearings.
For 1-1/4" dia. axle. .....P/N 40-77C..... ---

600 x 6 NOSE WHEEL - Anodized aluminum, with bearings.
For 1-1/2" dia. axle. .....P/N 40-56 ..... ---

HEAVY-DUTY CLEVELAND WHEELS & BRAKES FOR HOMEBUILTS

The heavier-duty brake discs, linings and hardware in these kits will increase braking capacity for the heavier, faster-landing aircraft now being designed & built.

#199-93 UPGRADE KIT

For #199-102 standard wheels and brakes. Upgrades current 40-78B/30-9 to new 40-230/30-181 specs. Consists of #66-106 linings, discs, shims, bolts, rivets and nameplates for 2 wheels & brakes.
P/N 199-93 ..... ---

#199-156 KIT (AIRCRAFT TO 1500 LBS)

Kit consists of two 40-230 wheel assemblies and two 30-181 brake assemblies. Uses #66-106 linings. Fits 1-1/4" dia. axles.
Used on Vari-eze.....P/N 199-156 ..... ---

#199-152 KIT FOR LONG-EZ & COZY (AIRCRAFT TO 2200 LBS)

Kit contains two 40-151 wheel assemblies and two 30-133 brake assemblies. Uses #66-105 linings. Fits 1-1/4" dia. axles.
P/N 199-152 ..... ---

CLEVELAND WHEELS & BRAKES FOR AMPHIBIANS

Although magnesium wheels and brakes are considerably lighter, magnesium is subject to corrosion and should not be used for amphibious operation. Only organic linings should be used on all brakes. All parts of the 500 x 5 size wheels and brakes for amphibians are constructed of anodized aluminum for water resistance. Although a special 40-74 series of 600 x 6 wheels and brakes are manufactured for amphibious use, with chrome plated bearings and brake disc and water drainage holes, they are too costly for use on homebuilt aircraft.

The use of standard Cleveland aluminum wheels with standard bearings on amphibian aircraft is suggested. If bearings are kept well greased, reasonable service can be expected, but earlier bearing replacement should be anticipated.

500 x 5 (Anodized Aluminum)
Kit P/N 199-103 (Std. Disc) .....**---/pr.**
Kit P/N 199-103C (Chrome Disc) .....**---/pr.**
600 x 6 (Anodized Aluminum)
Kit P/N 199-105 (Std. Disc) .....**---/pr.**
Kit P/N 199-105C (Chrome Disc) .....**---/pr.**

500 X 5 ALUMINUM NOSE WHEEL.....P/N 40-87C..... ---

CLEVELAND HOMEBUILDERS SPECIAL WHEEL & BRAKE SET PACKAGES

PACKAGE NO. 1

Includes 2 Cleveland 5.00-5 magnesium wheels & brakes plus (2) 6 ply tires & tubes. (Wt. approx. 28 lbs.)

A w/STA Air Trac Tires & Tubes.....P/N 06-00100 ..... ---
B w/Goodyear Flight Custom II Tires (Goodyear's latest design)
P/N 06-00200 ..... ---
C w/Lamb Tires & Tubes (11.400 x 5).....P/N 06-00300 ..... ---

PACKAGE NO. 2

Package No. 1 plus 2 Cleveland #10-35 master cylinders. (Wt. approx. 30 lbs.)
A w/STA Air Trac Tires & Tubes.....P/N 06-00400 ..... ---
B w/G.Year Flight CustomII Tires & Tubes ..P/N 06-00500 ..... ---
C w/Lamb Tires & Tubes (11.400x5) .....P/N 06-00600 ..... ---

PACKAGE NO. 3

Includes 2 Cleveland 6.00-6 magnesium wheels and brakes plus two 4 ply tires and tubes. (Wt. approx. 32 lbs.)
A w/STA Air Trac Tires & Tubes.....P/N 06-00700 ..... ---
B w/G.Year Flight Custom II Tires & Tubes .P/N 06-00800 ..... ---

PACKAGE NO. 4

Package No. 3 plus 2 Cleveland #10-35 master cylinders. (Wt. approx. 34 lbs.)
A w/STA Air Trac Tires & Tubes.....P/N 06-00900 ..... ---
B w/G.Year Flight Custom II Tires & Tubes...P/N 06-01000 ..... ---

PACKAGE NO. 5

Includes 2 Cleveland 6.00-6 magnesium wheels & brakes plus two low-profile lightweight 6-ply 15x6.00-6 tires & tubes. (Wt. approx. 32 lbs.)
A w/STA Air Trac Tires & Tubes.....P/N 06-01100 ..... ---
B w/G.Year Flight Custom II Tires & Tubes...P/N 06-01200 ..... ---

PACKAGE NO. 6

Package No. 5 plus 2 Cleveland #10-35 master cylinders. (Wt. approx. 34 lbs.)
A w/STA Air Trac Tires & Tubes.....P/N 06-01300 ..... ---
B w/G.Year Flight Custom II Tires & Tubes ....P/N 06-01400 ..... ---

PACKAGE NO. 7 FOR DEFIANT

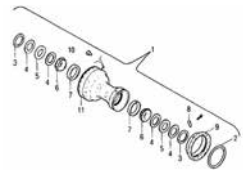
Includes 2 Cleveland 6.00-6 magnesium wheels & brakes (P/N 199-133X) plus (2) 6.00-6 STA 6 ply tires & tubes plus 2 master cylinders.
P/N 06-01500 ..... ---

AEROSHELL GREASE FOR WHEEL BEARINGS

Aeroshell #22 grease is recommended for lubrication of Cleveland wheel bearings and is also applicable to other similar wheel bearings. Meets Mil-G-81322.
14 oz. tube .....P/N 08-05490 ..... ---

LG

CLEVELAND WHEEL & BRAKE CONVERSION KITS



REPLACE 800 X 4 WHEELS ON PIPER AIRCRAFT

A bolt-on 600 x 6 wheel and brake conversion kit for Piper models: J3, J5C, PA11, PA12, PA14, PA15, PA16, PA17, PA18 & PA20 PA18-150 & PA18A-150 with Form 337. The 199-71-STC kit comes complete with STC paperwork. Accommodates tire sizes 600 x 6, 700 x 6, 800 x 6. No landing gear modifications required. Minor modification of hydraulic line required. Uses double puck brakes. Fits 1-1/4" diameter axle size only. Fits Piper J4/J5 but STC does not cover these aircraft.

Magnesium Model for general use

P/N 199-71 ..... ---
P/N 199-71-STC (w/full STC paperwork) ..... ---
Aluminum Model for "AG" Service.....P/N 199-71A..... ---

REQUEST QUOTATION ON UNLISTED MODELS

CESSNA – WHEEL & BRAKE

P/N 199-46 ..... ---

(6.00x6) FOR CESSNA MODELS: 120, 140, (SN 8004 thru 13399), 140A (SN 13400 and up), 170, 170A, 170B, 172, 172A thru 172E, 175, 175A, 175B, 175C, P172D, 180, 180A thru 180E, 182, 182A thru 182G.

Description	Part Number	Qty.
Wheel Assembly	040-09701	2
Brake Assembly	030-06301	2
Bushing	145-02200	8
Bushing	145-01000	4
W & B Assembly Dwg.	20-134	1
Installation Instructions	50-24	1
Installation Instructions	50-25	1
Installation Instructions	50-26	1
Supplemental Type Certificate		1

BEECH – WHEEL & BRAKE

P/N 199-49 ..... ---
P/N 199-49C (Chrome) ..... ---

(6.00x6) For Beech Aircraft Models: 35, A35 thru G35, 35R 35-33, 35-A33. 35-B33, 35-C33, 35-C33A, E33, E33A E33C, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36.

Description	Part Number	Qty.
Brake Assembly	030-05400	2
Wheel Assembly	040-08300	2
Spacer	067-02600	2
W & B Assembly Drawing	20-69	1
Installation Drawing	50-28	1
Supplemental Type Certificate		1

BEECH – WHEEL & BRAKE

P/N 199-50 ..... ---

(7.00x8) FOR BEECH AIRCRAFT MODELS: 35, A35 thru G35, 35R, H35, J35, K35, M35, N35, P35, S35, D55, D55A, E55, E55A 95, B95, B95A, D95A, E95, 95-55, 95-A55, 95-B55A, 95-B55B, 95-C55, 95-C55A.

Description	Part Number	Qty.
Brake Assembly	030-06600	2
Wheel Assembly	040-09800	2
Spacer	067-02500	2
Spacer	067-02700	2
W & B Assembly Drawing	20-135	1
Installation Drawing	50-27	1
Supplemental Type Certificate		1

Note: It will be necessary to change master cylinders and obtain the necessary axle hardware for conversion, Ref. dwg. 50-27. These parts can be obtained through Beech aircraft.

CESSNA – WHEEL & BRAKE

P/N 199-60 ..... ---

(6.00x6) For Cessna Models: 180, 180A, B, C, D, E, F, H, J. 185, 185A, B, A185E, A185F, 206E, 206F, TU206E, TU206F, 210, 210A, B, C. 210K, L, T210K, T210L.

Description	Part Number	Qty.
Wheel Assembly	040-07502	2
Brake Assembly	030-05200	2
Installation Drawing (210 series)	50-34	1
Installation Drawing (180,185,206 Series)	50-35	1
Supplemental Type Certificate (210 series)		1
Supplemental Type Certificate (180,185,206 Series)	20-64	1

Note: Kit to be used only on aircraft with 6.00 x 6 tires.

#199-52 NAVION CONVERSION KIT

Complete kit for conversion to Cleveland 700 x 8 main gear and 600 x 6 nose wheel on Navion Models – A, B, C, D, E, F, G & H.
P/N 199-52 ..... ---

#199-52A NAVION CONVERSION KIT

Kit for conversion of maingear only.....P/N 199-52A..... ---

Part No.	Description	Qty
O40-09804	Wheel Assembly	2
030-06602	Brake Assembly	2
067-02900	Spacer	2
067-03200	Spacer	2
040-07602	Nose Wheel Assembly	1
067-03100	Spacer	2
157-01000	Dust Shield	2
102-00600	Screws	6
095-15100	Washers	6
207-00300	Hydraulic Line	2
50-29	Installation Drawing NLG	1
50-30	Installation Drawing MLG	1
	Supplemental type cert.	1

CESSNA – WHEEL & BRAKE

P/N 199-62 ..... ---

(8.00x6) FOR CESSNA MODELS: 180, 180A, B, C, D, E, F, H & J. 185, 185A, B, A185E, A185E, A185F, 206E, F, TU206E, TU206F.

Description	Part Number	Qty.
Wheel Assembly	040-07504	2
Brake Assembly	030-05213	2
Installation Drawing	50-36	1
Supplemental Type Certificate		1

Note: Kit to be used only on aircraft with 6.00 x 6 tires.

CESSNA – WHEEL & BRAKE

P/N 199-84 ..... ---

Cessna Approved Retrofit For The Following Aircraft:
150, F150, A150, FA150, 152, A152, F152, FA152, 177, 177RG, F177RG, 182, A182, F182

Description	Part Number	Qty.
Wheel Assembly	030-07500(1)	2
Brake Assembly	040-11300(2)	2
Installation Drawing	50-36	1

Note Cessna Cross Reference Numbers:
(1) C-163030-113(LH) C-163030-114(RH) (2) C-163001-0104

CESSNA – WHEEL & BRAKE

P/N 199-84A ..... ---

Cessna Approved Retrofit for the Following Aircraft: 172, F172, R172, Fr172

Description	Part Number	Qty.
Wheel Assembly	030-07501(1)	2
Brake Assembly	040-11300(2)	2
Installation Drawing	50-37	1

Note Cessna Cross Reference Numbers:
(1) C-163030-011(LH) C-163030-112(RH) (2) C-163001-0104

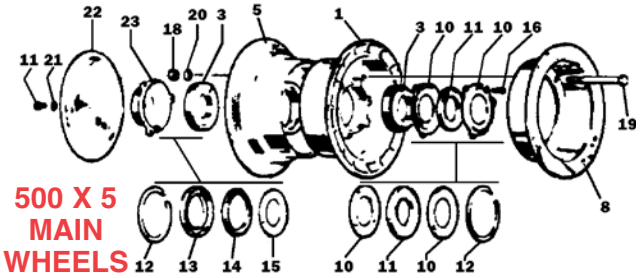
WE CARRY ALL CLEVELAND CONVERSION KITS

Cessna P210N .....P/N 199-60A..... ---
Cessna 310, 320 .....P/N 199-64 ..... ---
Cessna 421, 340, 401, 402, 414.....P/N 199-76 ..... ---
Ercoupe .....P/N 199-69 ..... ---
Beech Duke.....P/N 199-73 ..... ---
Beech Musketeer .....P/N 199-124 ..... ---
Beech 1900C, 1900D Nose Wheel Conversion
P/N 06-02550 ..... ---
Luscombe(8 Series) Kit with STC .....P/N 06-02951 ..... ---
Stinson.....P/N 199-87 ..... ---
Raytheon .....P/N 199-123 ..... ---
Raytheon .....P/N 199-124C..... ---
Raytheon .....P/N 199-90 ..... ---
Twin Otter DHC6-1, -100, -200, -300.....P/N 199-92 ..... ---
Pilatus PC-7 MK-1 .....P/N 05-21695 ..... ---

SEE OUR WEBSITE FOR COMPLETE CONVERSION KIT LISTING

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FAA-APPROVED CLEVELAND WHEELS & BRAKES

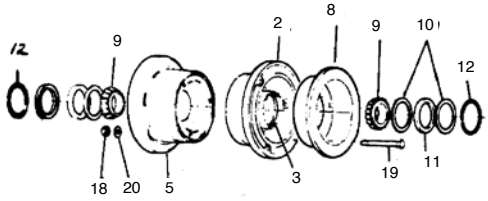


500 X 5 MAIN WHEELS

Fig	Cleveland P/N	Part No.	Description	Assembly Number	Qty. Per Assembly 40-12	40-12A	40-12B	40-19	40-19A	40-19B	40-78	40-78A	Price Each
1	161-5	161-00500	Inner Wheel Half Assy.		1	1	1						----
	161-03100	161-03100	Inner Wheel Half Assy.								1		---
	161-04100	161-04100	Inner Wheel Half Assy.									1	---
3	08231	214-00300	Cup-Bearing		1	1	1	1	1	1	1	1	---
5	162-00500	162-00500	Outer Wheel Half Assy.		1	1	1						---
	162-02800	162-02800	Outer Wheel Half Assy.								1		---
	162-03900	162-03900	Outer Wheel Half Assy.									1	---
3	08231	214-00300	Cup-Bearing		1	1	1	1	1	1	1	1	---
*	217-00100	217-00100	Grommet								1	1	---
*	101-07200	101-07200	“O” Ring		1	1	1						---
8	164-00400	164-00400	Brake Disc Assy.		1	1	1	1	1	1			---
	164-17	164-01700	Brake Disc Assy.								1	1	---
*	08125	214-00400	Cone-Bearing		2	2	2	2	2	2	2	2	---
19	AN4-31A	103-10800	Bolt		3	3	3	3	3	3			---
	AN4-22A	103-10500	Bolt								3	3	---
20	AN960-416	095-10400	Washer			6	6	6	6	6	3	3	---
18	AN365-428A	094-10300	Nut		3	3	3	3	3	3	3	3	---
10	153-00800	153-00800	Ring-Grease Seal		2	2	4	2	2	4	4	4	---
12	155-00200	155-00200	Ring-Snap		2	2	2	2	2	2	2	2	---
11	154-00600	154-00600	Felt-Grease Seal		1	1	2	1	1	2	2	2	---
23	158-00500	158-00500	Cap-Hub		1	1		1	1				---
17	102-25100	102-25100	Screw		1	1		1	1				---
21	095-15400	095-15400	Washer-Lock		1	1		1	1				---
22	157-00500	157-00500	Shield-Dust		1			1					---

MODEL NO. 05-13459 wheel with brake disc and 1-1/4” dia. bearings as used on Cessna 150. .....P/N 05-13459 ..... ---

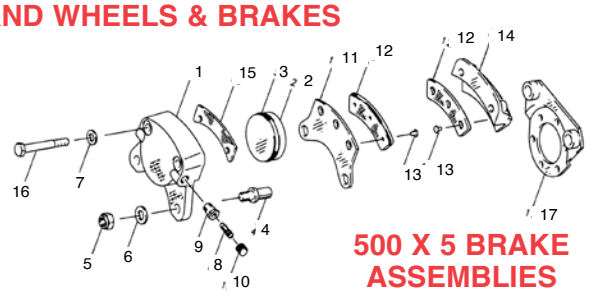
MODEL NO. 40-78B.....P/N 40-78B..... ---



600 X 6 MAIN WHEELS

FIG	Cleveland P/N	Part Number	Description	Assembly Number	Qty. Per Assembly 40-97	40-97A	40-97B	40-97C	40-97D	40-99	Price Ea.
2	161-03000	161-03000	Inner Wheel Half Assy.		1	1	1	1	1	1	---
	161-02100	161-02100	Inner Wheel Half Assy.							1	---
3	13836	214-00100	Cup-Bearing		1	1	1	1	1	1	---
5	162-02700	162-02700	Outer Wheel Half Assy.		1	1	1	1	1		---
	162-01900	162-01900	Outer Wheel Half Assy.							1	---
	13836	214-00100	Cup-Bearing		1	1	1	1	1	1	---
8	164-26A	164-02601	Brake Disc Assy.		1	1	1	1	1	1	---
	164-02800	164-02800	Brake Disc Assy.							1	---
9	214-00200	214-00200	Cone-Bearing		2	2	2	2	2	2	---
19	AN5-35A	103-20400	Bolt		3	3	3	3	3		---
	AN4-37A	103-11200	Bolt							6	---
20	AN960-516	095-10500	Washer		3	3	3	3	3		---
	AN960-416L	095-10200	Washer							6	---
18	AN365-524A	094-10400	Nut		3	3	3	3	3		---
	AN365-428A	094-10300	Nut							6	---
10	153-00400	153-00400	Ring-Grease Seal		2	2		2	2	2	---
	153-00300	153-00300	Ring-Grease Seal		1	1	2	1	1		---
	153-01500	153-01500	Ring-Grease Seal		1	1	2	1	1		---
	158-00300	158-00300	Cap-Hub							1	---
11	154-00300	154-00300	Felt-Grease Seal		1	1		1	1	1	---
	154-01300	154-01300	Felt-Grease Seal		1	1	2	1	1		---
12	155-00100	155-00100	Ring Snap		2	2	2	2	2	2	---
	154-12400	06-01778	Molded Grease Seal			1					---
	154-12000	06-01782	Molded Grease Seal			1					---

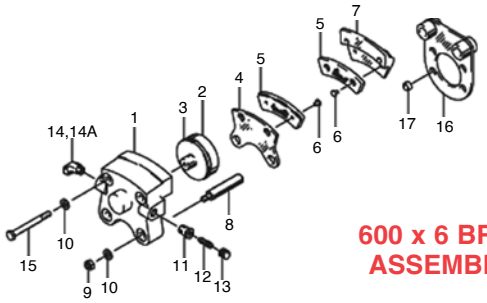
MODEL NO. 40-97A wheel with brake disc and 1.5” dia. bearings fits Cessna 172, 182 .....P/N 40-97A..... ---



500 X 5 BRAKE ASSEMBLIES

Fig	Cleveland P/N	Part No.	Description	Assembly Number	Qty. Per Assembly 30-9	30-9A(2)	30-9C	30-9D	30181A	Price Each
	91-00702	06-01203	Cylinder Assembly		1			1		---
	91-04800	06-01204	Cylinder Assembly			1	1			----
	91-17401	06-01205	Cylinder Assembly						1	---
1	61-00601	061-00601	Cylinder		1			1	1	---
	61-03901	061-03901	Cylinder			1	1			----
	92-00200	06-01206	Piston		1	1	1	1	1	---
2	79-00300	062-00300	Piston		1	1	1	1	1	---
3	101-02300	AN6227B-23	O-ring (MS28775-218)		1	1	1	1	1	---
4	069-00400	069-00400	Anchor bolt		2	2	2	2	2	---
5	94-10300	AN365-428A	Nut (MS21044-N4)		2	2	2	2	2	---
6	95-10400	095-10400	Washer (AN960-4-16)		2	2	2	2	2	---
7	95-10200	095-10200	Washer (AN960-416L)		2	2	2	2	2	---
8	079-00300	079-00300	Screw-Bleeder		1	1	1	1	1	---
9	081-00100	081-00100	Seat-Bleeder		1	1	1	1	1	---
10	183-00100	183-00100	Cap-Bleeder		1	1	1	1	1	---
	073-00300	073-00300	Pressure Plate Assy.		1	1	1	1	1	---
11	063-00500	063-00500	Pressure Plate		1	1	1	1	1	---
12	066-10600	066-10600	Lining		1	1	1	1	1	---
13	15-00200	105-00200	Rivet		3	3	3	3	3	-----
	074-00200	074-00200	Back Plate Assembly		1	1	1	1	1	---
14	064-00500	064-00500	Back Plate		1	1	1	1	1	---
12	66-106	066-10600	Lining		1	1	1	1	1	---
13	15-00200	105-00200	Rivet		3	3	3	3	3	-----
15	68-00401	06-01196	Shim						1	---
16	06-00011	103-12100	Bolt		2	2	2	2		---
		103-11500	Bolt						2	-----
17	075-00800	075-00800	Torque Plate Assembly		1	1	1		1	---
	75-19300	06-01201	Torque Plate Assembly					1		---

MODEL NO. 30-9 used with wheel 40-78..P/N 30-9 ..... ---



600 x 6 BRAKE ASSEMBLIES

FIG	Part No.	Cleveland No.	Description	Assembly No. & qty. per assembly 30-56	30-56A	30-63	30-63A	30-63D	Price
	091-02200	091-02200	Cylinder Assy.	--	--	1	1	1	---
1	061-01900	061-01900	Cylinder	1	1	1	1	1	---
2	062-01600	062-01600	Piston	1	1	1	1	1	---
3	101-05200	101-05200	“O” Ring	1	1	1	1	1	----
	073-01100	073-01100	Press. Plate Assy.	1	1	1	1	1	---
4	063-01200	063-01200	Plate-Press.	1	1	1	1	1	---
5	66-105	66-155	Lining	1	1	1	1	1	---
6	105-00200	105-00200	Rivet - Cleveland 9/32” Long	2	2	2	2	2	---
	074-01000	074-01000	Back Plate Assy.	1	1	1	1	1	---
7	064-01500	064-01500	Plate-Back	1	1	1	1	1	---
8	069-00400	069-00400	Bolt-Anchor	2	2	2	2	2	---
9	AN365-428A	094-10300	Nut	2	2	2	2	2	---
10	AN960-416L	095-10200	Washer	4	4	4	4	4	---
11	081-00100	081-00100	Seat-Bleeder	1	1	1	1	1	---
12	079-00300	079-00300	Screw Bleeder	1	1	1	1	1	---
13	183-00100	183-00100	Cap-Bleeder	1	1	1	1	1	---
14	AN823-4D	104-00500	Fitting Tube	1	1	--	--	--	---
15	AN4H-17A	103-11600	Bolt-Lock	2	2	2	2	2	---
16	075-03700	075-03700	Torque Plate Assy.	--	1	1	1	1	---
17	145-01000	145-01000	Bushing	2	--	2	2	2	---

MODEL No. 30-63A used w/wheel 40-97A ...P/N 30-63A..... ---
MODEL No. 30-52 Brake Assy .....P/N 30-52 ..... ---
MODEL No. 30-52N Brake Assy .....P/N 06-00106 ..... ---

LG

CLEVELAND WHEEL & BRAKE PARTS

CLEVELAND WHEEL ASSEMBLIES

Assembly No.	Part No.	Price
40-166	05-11658	---
40-60	05-11660	---
40-77B	05-11661	---
40-90	05-11662	---
161-05500	05-11630	---
40-75D	06-00105	---
40-140C	06-02822	---
40-56B	05-13441	---
040-07702	05-11661	---
040-0860	05-13470	---
40-87A	05-13472	---
40-97D	05-13480	---
40-97E	05-13481	---
40-98	05-13483	---
40-98A	05-13484	---
40-98G	05-13485	---
40-102	05-13488	---

CLEVELAND BRAKE ASSEMBLIES

Assembly No.	Part No.	Price
30-52N	06-00106	---
30-83A	05-13391	---
30-164	05-14982	---
30-182A	05-13419	---
30-65	06-03065	---
30-63E	05-13370	---
30-84	06-02789	---

CLEVELAND INSULATORS

Description	Part No.	Price
088-03500 Insulator Pin	06-02557	---
088-00100 Insulators	10-00091	---
088-00200 Insulators	05-13903	---
088-01400 Insulators	05-13906	---

CLEVELAND BOLTS

Description	Part No.	Price
103-11800 Bolt	06-01307	---
103-19000	05-14152	---

CLEVELAND BRAKE CYLINDERS

Description	Part No.	Price
061-01800 Brake Cylinder 61-18	05-11556	---
061-01801 Brake Cylinder	05-11557	---
061-02400 Clev Cylinder	06-01207	---
061-02500 Brake Cylinder	05-11558	---
061-07000 Brake Cylinder	05-11559	---
061-07001 Brake Cylinder	05-11560	---
061-11800 Brake Cylinder	05-13606	---

CLEVELAND BRAKE PISTONS

Description	Part No.	Price
062-03100 Brake Piston	05-11561	---
062-10800 Brake Piston	06-02554	---
092-02100 Brake Piston Assembly	05-11586	---
062-04100 Piston	05-13633	---
062-05600 Piston	05-13638	---
062-05700 Piston	05-13639	---
062-10800 Piston	06-02554	---
092-02000 Brake Piston Assembly	05-13960	---
092-03300 Brake Piston Assembly	05-13965	---
092-06700 Brake Piston Assembly	05-13977	---
139-20000 Piston Boot	05-14249	---

CLEVELAND PRESSURE PLATES

Description	Part No.	Price
063-00600 Pressure Plate	05-11562	---
063-01400 Pressure Plate	05-11563	---
063-01500 Pressure Plate	05-11564	---
063-03500 Pressure Plate	05-11565	---
063-30025 Pressure Plate	05-11566	---
073-01300 Pressure Plate Assembly 73-13	05-11581	---
073-02700 Pressure Plate	05-11582	---
063-01100 Pressure Plate	06-01208	---
063-08200 Pressure Plate	06-02555	---
073-07100 Pressure Plate Assy	06-02556	---
063-01300 Pressure Plate	05-13657	---
063-03500 Pressure Plate	05-11565	---
063-08200 Pressure Plate	06-02555	---
073-08500 Pressure Plate Assembly	05-13766	---
073-09800 Pressure Plate Assembly	05-13769	---

CLEVELAND BACK PLATES

Description	Part No.	Price
064-01600 Back Plate	05-11567	---
064-03200 Back Plate	05-11568	---
064-04300 Back Plate	05-11569	---
074-03400 Back Plate Assembly 74-34	05-11583	---
074-01000 Back Plate	074-01000	---
074-02300 Back Plate Assembly	05-13780	---
074-02900 Back Plate Assembly	05-13783	---
074-04800 Back Plate Assembly	05-13789	---
074-06600 Back Plate Assembly	05-13794	---
069-01900 Anchor Bolt	05-13722	---

CLEVELAND SHIMS

Description	Part No.	Price
068-02700 Shim 68-27	05-11574	---
068-02800 Shim 68-28	05-11575	---
068-03000 Shim	05-11576	---
068-03100 Shim	05-11577	---
068-03300 Shim 68-33	05-11578	---
068-04000 Shim 68-40	05-11579	---
068-04100 Shim 68-41	05-11580	---
068-01600 Shim	06-01198	---
068-01700 Shim	06-01199	---
068-05300 Shim	06-80530	---
068-04600 Shim	05-13716	---

CLEVELAND RIVETS

Description	Part No.	Price
105-00100 Rivet	05-11599	---
105-00900 Rivet	05-11600	---
105-00901 Rivet	05-11601	---
105-01100 Rivet	05-11602	---
105-01200 Rivet	05-11603	---
105-01300 Rivet	05-11604	---
105-06700 Rivet	05-11605	---
105-00200 Rivet	06-02808	---
Oval Head Rivet - Tubular	105-02401	---
105-08701 - Over Head Rivet - Tubular	05-14204	---
Rivet 105-08700	105-08700	---
105-06800	05-14203	---

CLEVELAND BLEEDER SEAT

Description	Part No.	Price
081-00200 Bleeder Seat 81-2	05-11584	---
081-30169 Bleeder Seat	05-11585	---

CLEVELAND SPACERS

Description	Part No.	Price
067-04100 Spacer 67-41	05-11572	---
067-06200 Spacer	05-11573	---
Spacer 067-30076	06-01195	---

CLEVELAND PREFORMED PACKING

Description	Part No.	Price
101-61900 Preformed Packing	06-02559	---
101-60800 Packing	05-11595	---
101-62700 Packing	05-14110	---
101-60800 Packing	05-11595	---

CLEVELAND BRAKE ASSEMBLY 30-59A

MFR Part No.	Qty. Rqd	Description	Part No.	Price/Ea.
30-59A / 030-05901	-	Complete Cleveland 30-59A Assy	30-59A	---
091-09600	1	091-09600 Cylinder Assy	06-01952	---
061-07500	1	061-07500 Cylinder	06-01953	---
092-04000	1	092-04000 Piston Assy	06-01954	---
062-03900	1	062-03900 Piston	06-01955	---
069-00400	2	069-00400 Bolt Anchor	069-00400	---
095-10200	4	095-10200 Washer AN960-416L	95-10200	---
079-00300	1	Bleeder Screw 079-00300	079-00300	---
081-00100	1	Bleeder Seat #081-00100	081-00100	---
183-00100	1	Bleeder Cap 183-00100	183-00100	---
073-04600	1	073-04600 Pressure Plate Assy	06-01956	---
063-03400	1	063-03400 Pressure Plate	06-01957	---
066-11200	2	Brake Lining # 66-112	66-112	---
105-00200	4	#105-2 4X4 Brake Lining Kit	105-00200	---
074-03600	1	074-03600 Back Plate Assy	06-01958	---
064-02900	1	064-02900 Back Plate	06-01959	---
103-11700	2	Bolt 103-11700	06-00078	---
075-03700	1	Torque Plate Assy	075-03700	---
145-01000	2	Bushing # 145-01000	145-01000	---

CLEVELAND WHEEL & BRAKE PARTS

CLEVELAND GREASE SEALS

Description	Part No.	Price
153-04200 Grease Seal Ring	05-11612	---
154-00800 Grease Seal Felt	05-11613	---
154-01200 Grease Seal Felt	05-11615	---
154-02600 Grease Seal Felt	05-11616	---
154-02800 Grease Seal Felt	05-11617	---
154-03200 Grease Seal	05-11618	---
154-03500 Grease Seal	05-11619	---
154-03600 Grease Seal	05-11620	---
154-07500 Grease Seal	05-11621	---
154-30010 Grease Seal Felt	05-11622	---
154-00400 Clev Felt Seal	154-00400	---
154-01400 Clev Felt Seal	154-01400	---
154-00500 Clev Felt Seal	06-01193	---
153-00500 Clev Grease Ring	153-00500	---
153-00900 Clev Grease Ring	06-01192	---
154-13100 Grease Seal, Molded	05-12775	---
Molded Grease Seal 40-77, 40-77A, 40-77B	06-02819	---
199-507 Seal Repair Kit	05-14563	---
199-53500 Seal Repair Kit	05-14571	---
199-53801 Seal Repair	05-14572	---

CLEVELAND BEARING CONE/CUPS

Description	Part No.	Price
214-00200 Bearing Cone	05-14605	---
214-00300 Bearing Cup	05-14606	---
214-00400 Bearing Cone	05-14607	---
214-00600 BRG Cone/Timken L21549	05-14608	---
214-00700 Bearing Cup	05-14609	---
214-00800 Bearing Cone	05-14610	---
214-00900 Bearing Cup	05-14611	---
214-01000 Bearing Cone	05-14612	---
214-03300 Bearing Cone	05-11639	---
214-03400 Bearing Cup	05-14625	---
214-13200 Bearing Cone	05-14642	---
214-00100 Cup Bearing	06-03305	---
214-01100 BRG Cup, Corrosion Resistant	05-14613	---
214-01200 BRG Cone, Corrosion Resistant	05-14614	---
214-01400 Bearing Cone	05-14615	---
214-01700 BRG Cup/Timken 19268 CP	05-14617	---
214-02000 BRG Cone/Timken 07100 CP	05-14620	---
214-02800 Cone, Bearing	05-14621	---
214-02900 Cup, Bearing	05-14622	---
214-03000 Bearing Cup	05-14623	---
214-03100 Bearing Cone	05-14624	---
214-03400 BRG Cup/Timken 07204	05-14625	---
214-03800 Bearing/ Timken 13600LA-902A3	05-14626	---
214-04300 Bearing Cone	05-14627	---
214-04400 Bearing/Timken LM29700LA-902A1	05-14628	---
214-04500 BRG Cone/Timken LM503349	05-14629	---
214-04600 BRG Cup/Timken LM503310	05-14630	---
214-04800 BRG Cup/Timken 18620	05-14632	---
214-04900 BRG Cone/Timken 18685	05-14633	---
214-05100 BRG Cup/ Timken 08231 CP	05-14634	---
214-06300 BRG Cup/Timken 13830	05-14635	---
214-09200 Bearing Cone	05-14636	---
214-12300 Cone, Bearing	05-14637	---
214-12400 Cup, Bearing	05-14638	---
214-12900 Cup, Bearing	05-14639	---
214-13000 Cone, Bearing	05-14640	---
214-13100 Cup, Bearing	05-14641	---
214-13200 Cone, Bearing	05-14642	---
214-18200 BRG Cone - Chrome Plated	05-14643	---
214-18337 BRG Cup - Chrome Plated	05-14644	---
214-30371 Bearing	05-14645	---
214-39250 BRG Cone - Chrome Plated	05-14646	---
214-39412 BRG Cup/Timken 39412	05-14647	---
214-39422 BRG Cup - Chrome Plated	05-14648	---
214-80900 Spherical Bearing	05-14649	---
214-83500 Bearing, Spherical	05-14650	---

CLEVELAND STATORS

Description	Part No.	Price
232-00300 Cleveland Stator	06-02564	---

CLEVELAND HOSE ASSEMBLIES

Description	Part No.	Price
207-00600 Hose Assembly	05-14589	---
207-01600 Hose Assembly	05-14595	---

CLEVELAND SNAP RINGS

Description	Part No.	Price
155-00600 Cleveland Snap Ring 155-6	05-11623	---
155-02900 Snap Ring	05-11624	---
155-04400 Snap Ring	05-11625	---
155-04800 Cleveland Snap Ring T5304-15	06-02562	---
155-14300 Snap Ring	05-14375	---

CLEVELAND WEAR PADS

Description	Part No.	Price
109-00100 Wear Pad	05-11607	---
109-00200 Wear Pad	05-11608	---
109-02800 Cleveland Wear Pad	06-02561	---
109-03000 Cleveland Wear Pad	109-03000	---
109-01500 Wear Pad	06-02795	---
109-00100 Wear Pad	05-11607	---
109-00201 Wear Pad	05-14214	---

CLEVELAND WHEEL AND BRAKE PARTS

Description	Part No.	Price
065- . Torque Plate Assembly	05-11570	---
30-182. Brake Assembly	06-02566	---
30-54C Brake Assembly	05-11654	---
091-11900 Brake Cylinder Assembly	06-02820	---
162-00600 Outer Wheel Half	06-00015	---
162-02100 Outer Wheel Half	06-02100	---
161-044700 Inner Wheel Half	05-14419	---
162-04500 Outer Wheel Half	05-14476	---
162-04700 Outer Wheel Half	06-00114	---
075-17100 Torque Plate Assembly	05-13855	---
075-20301 Tube, Torque, Assembly	05-13860	---
103-11700 Anchor Bolt	06-00078	---
069-00200 Anchor Bolt	069-00200	---
177-00300 Pin	07-00003	---
068-01100 Insulating Shim	06-01197	---
199-516 O-Ring Kit	08-00353	---
214-01300 Bearing Cup	05-11637	---
095-01100 Washer	095-01100	---
111-08200 Adjuster Assembly	05-11610	---
107-03700 Wiper	107-03700	---
107-00500 Wiper Ring	05-11606	---
107-03100 Wiper Ring	05-14213	---
MS35266-61 Screw for 102-07100	06-02560	---
095-02600 Seal for Master Cylinder	05-11587	---
110-15300 Bumper Heat Shield	05-14218	---
095-03000 Washer	05-11588	---
094-10401 MS21045-5S Nut	06-02558	---
158-01300 Hubcap	05-11626	---
158-00300 Hubcap	158-00300	---
159-02700 Hubcap	05-11626	---
177-00400 Pin	06-01194	---
177-01600 Pin	05-11632	---
160-01100 Valve Stem	05-14404	---
160-01200 Valve Assembly	05-14405	---
106-01900 Inflation Valve	05-11629	---
082-02000 Spring	05-13887	---
102-33300 Screw	05-14119	---
102-00600 Screw 8-32X.250 Zinc	05-14113	---
094-91500 Nut MS21045-6S	05-14006	---
094-13800 Nut	05-13996	---
094-13200 Nut 42FLW-524	05-13995	---
1J2-2 Airborne Filter	05-11636	---
700-8 Dustshield Size	157-01000	---
106-02000 Inflation Valve Assembly	160-02000	---
199-52 Repair Kit	06-00834	---
ID Plate	166-21600	---
082-02000 Clev Spring	05-13887	---
082-05300 Clev Spring	05-13890	---

CLEVELAND DRIVE KEY

Description	Part No.	Price
205-00700 Drive Key	05-14581	---
205-04400 Drive Key	05-14585	---
205-05000 Drive Key	05-14586	---

Description	Part No.	Price
205-05201 Drive Key	05-14587	---
205-00600 Key Liner	05-14580	---

CLEVELAND O-RINGS

Description	Part No.	Price
101-50353	05-06395	---
101-27900	05-11591	---
101-28000	05-11592	---
101-60001	05-11593	---
101-60100	05-11594	---

Description	Part No.	Price
101-61800	05-11596	---
101-60001	05-11593	---
101-24900	05-14076	---
101-24600	05-14075	---
101-24200	05-14073	---

NOSE WHEELS

MATCO NOSE WHEELS

Matco Part No.	Our Part No.	Dia. (in.)	Bearing Axle Dia.	Bearing Type Sealed	Width	Static Capacity (lbs.)	Load Limit (lbs.)	Weight (lbs.)	Price
Material: Spun Aluminum									
MH6N	06-00537	6	0.625	Ball	5.325	660	2000	2.6	---
MH6N-S	06-00539	6	0.625	Ball	5.325	660	2000	2.6	---
MH6N.75	06-00538	6	0.75	Ball	5.325	660	2000	2.6	---
Material: CNC Cast Aluminum									
NW40B	06-00541	4	6.25	Ball	3	660	2000	2.25	---
NW40B.75	06-00542	4	0.75	Ball	3	660	2000	2.25	---
NW40R	06-00543	4	0.75	Taper/Roll	3	1185	3560	2.25	---
NW50	06-00544	5	0.75	Taper/Roll	3.88	1185	3560	3.24	---
NW51	06-00545	5	0.75	Taper/Roll	3.88	1185	3560	3.24	---
NW501.25	06-00546	5	1.25	Taper/Roll	3.88	1420	4260	3.24	---
NW511.25	06-00547	5	1.25	Taper/Roll	3.88	1420	4260	3.6	---
NW60	06-00548	6	1.25	Taper/Roll	3.5	1420	4260	3.24	---
NW600	06-00549	6	1.25	Taper/Roll	4.5	1420	4260	3.24	---
Material: Die Cast Aluminum									
NW40EE	06-00550	4	0.625	Ball	3.25	660	2000	1.8	---
NW50CC	06-00551	5	0.625	Ball	4.38	660	2000	2.7	---
NW50CC.75	06-00552	5	0.75	Ball	4.38	660	2000	2.7	---
NW51CC	06-00553	5	0.625	Ball	4.38	660	2000	2.7	---
NW51CC.75	06-00554	5	0.75	Ball	4.38	660	2000	2.7	---
NW50CC.75R	06-00555	5	0.75	Taper/Roll	4.38	1185	3560	2.8	---
NW51CC75R	06-00556	5	0.75	Taper/Roll	4.38	1185	3560	2.8	---
NW60CC	06-00557	6	0.625	Ball	4.38	660	2000	3.22	---
NW60CC.75	06-00558	6	0.75	Ball	4.38	660	2000	3.22	---
NW60CC.75R	06-00559	6	0.75	Taper/Roll	4.38	1185	3560	3.52	---
NW600CC	06-00560	6	0.625	Ball	5.38	660	2000	3.47	---
NW600CC.75	06-00561	6	0.75	Ball	5.38	660	2000	3.47	---
NW600CC.75R	06-00562	6	0.75	Taper/Roll	5.38	1185	3560	3.52	---

LG

MATCO 6 INCH PNEUMATIC NOSE WHEEL ASSEMBLY

MATCO mfg produces the WHLTW35 inch nosewheel for use with aircraft requiring less than 660 pounds nosewheel load. Dimensions: The WHLTW35 uses 0.625 inch Sealed Ball bearings. It is 1.78 wide and weighs approximately 0.91 lbs. Performance: The WHLTW35 is designed for the following standards: • Static Capacity: 660 • Load Limit: 1980 • Also used in WHLT-6P Tailwheel • This wheel uses the TIRT6X2ASY tire & tube assembly. The wheel is rated at 660 lbs static but the tire is only rated at 250 lbs static. This is the lightest weight 6 inch pneumatic wheel available! .....P/N 06-01658 ..... ---

MATCO NOSEWHEEL

MATCO mfg produces the WHLTW40R nosewheel for use with aircraft requiring less than 1185 pounds nosewheel load. Dimensions: The WHLTW40R uses .75 inch tapered roller bearings. It is 2.6 wide and weighs approximately 2.1 lbs. Static Capacity: 1185. Load Limit: 3555. Tapered Roller Bearings: .75 inch. Wheel Assembly Width: 2.6. Weighs: appr. 2.1 lbs.
P/N 06-02571 ..... ---

GROVE 400X4 NOSE WHEEL

The perfect nose wheel for light sport aircraft such as the KR and Soneri. • Static Load Rating 900lbs • Genuine Timkin Bearings • Uses 3/4" Axle • Felt Seals • Weight 1.98 lbs
Model 49-1A..... P/N 06-00843..... ---
TIRE: Uses 400 x 8 ply tire.. P/N 06-00844..... ---
TIRE: Uses 4.10 x 3.50 x 4 ply tire
P/N 06-08102..... ---

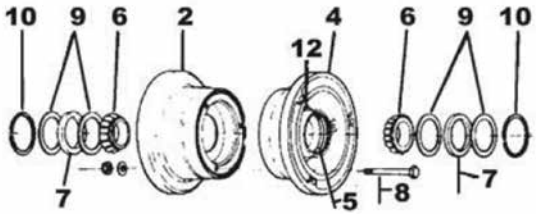
GO-CART WHEELS

Cast aluminum wheels with 4" hub, for homebuilts and sailplanes. Used on Tri-Q conversion as nose-wheel. 3-1/4" wide. Complete with 5/8" dia. ball bearings. Wt. 1-1/2 Lbs.....P/N 06-00550 .....**--- Ea.**

HEGAR 6" NOSE WHEEL

The 6" Spun Aluminum nose wheel with 5/8 bearings. Comes centered when using the MX o-ring standard wheel hub but can also be purchased with the MX offset hub (no o-ring with offset hub. Requires the use of a tube. Comes complete with nuts, bolts, washers, valve stem, o-rings if required and the MX hub. May also be used as main wheels.
P/N 06-01274 ..... ---

CLEVELAND NOSE WHEELS 500X5



#	Old Part No.	Part No.	Description	Qty Per Assy. 40-77	40-77A	40-85	40-87	40-87A	Price Each
2	162-28	162-02800	Outer Wheel	1	1	-	1	-	---
	162-36	162-03600	Outer Wheel	-	-	-	-	1	---
	08231	214-00300	Cup Bearing	1	1	1	1	1	---
12	217-1	217-00100	Grommet	1	1	1	1	1	---
4	161-31	161-03100	Inner Wheel Half Assy.	1	1	-	1	-	---
	161-38	161-03800	Inner Wheel Half Assy.	-	-	-	-	1	---
5	08231	214-00300	Inner Cup Bearing	1	1	1	1	1	---
8	103-1050	AN4-22A	Bolt	3	3	3	3	3	---
*	095-10400	AN960-416	Washer	6	6	6	6	6	---
*	094-10300	AN365-428A	Nut	3	3	3	3	3	---
9	153-8	153-00800	Ring-Grease Seal	4	4	-	-	-	---
	21-104	153-00200	Ring-Grease Seal	-	-	4	-	-	---
10	155-2	155-00200	Ring-Snap	2	2	2	2	2	---
7	154-6	154-00600	Felt-Grease Seal	2	2	-	-	-	---
6	08125	214-00400	Cone-Bearing	2	2	2	2	2	---

500 X 5 NOSE WHEEL dimensions: 6.625 in. x 6.625 in. x 7 in.
P/N 40-77 ..... ---
500 X 5 NOSE WHEEL with 1-1/4" dia. bearings. Used on some models of Cessna 150, is typical of nose wheels used on general aviation aircraft. FAA-approved. .....P/N 40-77A..... ---
500 X 5NOSE WHEELS 1-1/2" Dia. Bearings used on Mooney
Model 40-77B .....P/N 05-11661 ..... ---
Model 40-87 .....P/N 06-00417 ..... ---
Model 40-87C.....P/N 06-00962 ..... ---
600 X 6 NOSE WHEEL with 1-1/2" dia. bearings. (not illustrated) is used on some models of Cessna 172 and 182. FAA approved.
P/N 40-76A ..... ---
600X6 Nose Wheel 40-76B.....P/N 05-13057 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

P/N 06-00448

P/N 06-00456

P/N 06-00462

P/N 06-01660

Note: Our prices include 2 wheels and 2 brakes (set)

Matco Part No	Aircraft Spruce	Bearing Axle Dia. BB=Ball TRB=Taper Roll	Load Limit (lbs.)	Static Capacity (lbs.)	Brake Reline Kit	Weight (lbs.)	Tire Size	Tire Type	Price
CNC SPUN WHEELS: INTERNAL CALIPER									
MH6B	06-16810	0.625BB	2000	660	BRL-2	4.4	6”	any 6”	---
MH6B-S	06-00447	0.625BB	2000	660	BRL-2	4.4	6”	any 6”	---
MH6B.62D	06-00448	0.625BB	2000	660	BRL-3	4.65	6”	any 6”	---
MH6B.62D-S	06-00449	0.625BB	2000	660	BRL-3	4.65	6”	any 6”	---
MH6B.75	06-00450	0.75BB	2000	660	BRL-2	4.4	6”	any 6”	---
MH6B.75-S	06-00453	0.75BB	2000	660	BRL-2	4.4	6”	any 6”	---
MH6B.75D	06-00451	0.75BB	2000	660	BRL-3	4.65	6”	any 6”	---
MH6B.75D-S	06-00452	0.75BB	2000	660	BRL-3	4.65	6”	any 6”	---
MH6BD.62	06-00454	0.625BB	2000	660	2BRL-2	5.18	6”	any 6”	---
MH6BD.62-S	06-00455	0.625BB	2000	660	2BRL-2	5.18	6”	any 6”	---
MH6BD.75	06-00456	0.75BB	2000	660	2BRL-2	5.18	6”	any 6”	---
MH6BD.75-S	06-00457	0.75BB	2000	660	2BRL-2	5.18	6”	any 6”	---
CNC SPUN WHEELS: EXTERNAL CALIPER									
MHE6B1.25	06-00444	1.25TRB	2700	900	BRL-1	5.8	6”	up to 6.00-6	---
MHE6B1.25-C	06-00443	1.25TRB	2700	900	BRL-1	5.8	6”	up to 6.00-6	---
CENTRIFUGALLY CAST WHEELS: INTERNAL CALIPER									
W40B	06-00458	0.625BB	2000	660	BRL-2	4.05	4”	any 4”	---
W40-BDXT	06-00459	0.75BB	3560	1185	BRL-2	3.8	4”	2.80/2.50x4	---
W40R	06-02210	0.75BB	3560	1185	BRL-2	4.05	4”	any 4”	---
W50L	06-01860	0.625BB	2000	660	BRL-1	6.6	5”	11.0x4.05	---
W50L.75	06-00833	0.75BB	2000	660	BRL-1	6.6	5”	11.0x4.05	---
W50LD	06-00411	1.25BB	4260	1420	2BRL-1	8.9	5”	11.0x4.05	---
W50LT	06-00461	1.25BB	4260	1420	BRL-6	9.2	5”	11.0x4.05	---
W50LXT-Pair	06-00462	1.25BB	1420	4260	BRL-6	9.2	5”	11.0x4.05	---
W50S1.25	06-01660	1.25BB	4260	1420	BRL-1	6.6	5”	11.0x4.05	---
W50S.75	06-00463	0.75BB	4260	1185	BRL-1	6.6	5”	11.0x4.05	---
W51L	06-01710	1.25BB	4260	1420	BRL-1	6.6	5”	5.00x5	---
W51LD	06-00464	1.25BB	4260	1420	2BRL-1	8.9	5”	5.00x5	---
W51LT	06-00079	1.25BB	4260	1420	BRL-6	9.2	5”	5.00x5	---
W51LXT	06-00412	1.25BB	4260	1420	BRL-6	9.2	5’	5.00x5	---
W50LXT-Single	06-00412-1	1.25BB	1420	4260	BRL-6	9.2	5”	11.0x4.05	---
W51S1.25	06-01960	1.25BB	4260	1420	BRL-1	6.6	5”	5.00x5	---
W62	06-02110	0.75BB	3560	1185	BRL-1	7	6”	any 6”	---
F602	06-00465	0.75BB	3560	1185	BRL-1	7.8	6”	any 6”	---
W60	06-02160	1.25BB	4260	1420	BRL-1	7.1	6”	any 6”	---
F600	06-00466	1.25BB	4260	1420	BRL-1	7.8	6”	any 6”	---
W600	06-00467	1.5TRB	5580	1860	BRL-6	11.9	6”	any 6”	---
W600XT	06-00413	1.5TRB	5580	1860	BRL-6	11.9	6”	any 6”	---
W600XLT	06-00468	1.5TRB	5580	1860	BRL-6	10.2	6”	any 6”	---
W323A	06-00469	1.5TRB	5580	1860	BRL-323	13.75	6”	any 6”	---

LG

MATCO WHEELS & BRAKES

MATCO DIECAST WHEELS

Note: Our prices include 2 wheels and 2 brakes (set); Bearing Axle: BB=Ball TRB=Taper Roll

P/N 06-00471

P/N 06-00485

P/N 06-00486

P/N 06-00489

Matco Part No.	Our Part No.	Bearing Axle Diameter	Load Limit	Static Capacity	Brake Reline Kit	Weight	Tire Size	Tire Type	Price
CENTRIFUGALLY CAST WEELS: EXTERNAL CALIPER									
WE51	06-00445	1.25TRB	4260 lbs.	1420 lbs.	BRL-1	7.5 lbs.	6”	5.00x5	---
W50CC	06-00470	0.625BB	2000 lbs.	660 lbs.	BRL-2	4.57 lbs.	5”	11.0 x 4.05	---
W50CC.62D	06-00471	0.625BB	2000 lbs.	660 lbs.	BRL-3	4.82 lbs.	5”	11.0 x 4.05	---
W50CC.75	06-00472	0.75BB	2000 lbs.	660 lbs.	BRL-2	4.57 lbs.	5”	11.0 x 4.05	---
W50CC.75D	06-00473	0.75BB	2000 lbs.	660 lbs.	BRL-3	4.82 lbs.	5”	11.0 x 4.05	---
W50CCD.75	06-00474	0.75BB	2000 lbs.	660 lbs.	2 BRL-2	5.35 lbs.	5”	11.0 x 4.05	---
W51CC	06-00476	0.625BB	2000 lbs.	660 lbs.	BRL-2	4.57 lbs.	5”	5.00-5	---
W51CC.75	06-00478	0.75BB	2000 lbs.	660 lbs.	2 BRL-2	4.57 lbs.	5”	5.00-5	---
W51CC.75D	06-00479	0.75BB	2000 lbs.	660 lbs.	2 BRL-3	4.82 lbs.	5”	5.00-5	---
W51CCD.75	06-00480	0.75BB	2000 lbs.	660 lbs.	2 BRL-2	5.35 lbs.	5”	5.00-5	---
W600CC.75	06-00485	0.75BB	2000 lbs.	660 lbs.	BRL-2	5.85 lbs.	6”	any 6 “	---
W600CCD.75	06-00489	0.75BB	2000 lbs.	660 lbs.	2 BRL-2	5.85 lbs.	6”	any 6 “	---
W600CC.75R	06-00491	0.75TRB	2000 lbs.	1185 lbs.	BRL-2	6.15 lbs.	6”	any 6 “	---
W600CCD.75R	06-00493	0.75TRB	2000 lbs.	1185 lbs.	2 BRL-2	6.55 lbs.	6”	any 6 “	---
W80CC-Z	06-00494	0.625BB	2000 lbs.	660 lbs.	BRL-1	8.75 lbs.	6”	4.80-8	---

MATCO AXLE CHART

Matco P/N	Aircraft Spruce P/N	Dia. (In.)	Used on Models	Axle Assy.	Comment	Axle Price	Assy. Price
A1	06-00495	1.25	W50, W51, WE51L	AXLE1	AL Flange Mount	---	---
A1A	06-00496	1.25	W50LD, W51LD, W50LT, W50LXT, W51LT, W51LXT	AXLE1A	AL Flange Mount	---	---
A1B	06-00497	1.25	WE51	AXLE1B	AL Flange Mount	---	---
A2	06-00498	1.25	W50S,W51S	AXLE2	AL Flange Mount	---	---
A3	06-00499	1.25	W60, WI60, WI60L	AXLE3	AL Flange Mount	---	---
A3A	06-00501	1.25	MHE51, MHE6B, MHE8B, MHE10B, MHE12B	AXLE3A	AL Flange Mount 5” Cessna bolt pattern	---	---
A3C	06-00502	1.25	MHE51-SC, MHE6B-SC, MHE8B-SC, MHE10B-SC, MHE12B-SC	AXLE3C	AL Flange Mount 6” Cessna bolt pattern	---	---
A4	06-16830	0.625	MHE6B,W50CC, W60CC, W40B	AXLE4	Steel Tube	---	---
A5	06-00503	0.75	W40BD	AXLE5	AL Flange Mount	---	---
A5G	06-00504	20mm	W40M	AXLE5G	Steel Flange Mount	---	---
A6	06-00505	1.5	W600, W600XT, WW600XLT	AXLE6	AL Flange Mount	---	---
A6M	06-00506	1.5	W600, W600XT, WW600XLT	AXLE6M	A6 Alternate Mount Ver.	---	---
A7	06-00507	0.75	MH6B, W50CC, W60CC, W40B	AXLE7	Steel Tube Mount	---	---
A8	06-00508	0.75	W62,MH6B.75, W50CC.7 MH6B5, 260CC.75	AXLE8	Steel Tube	---	---
A13	06-00509	0.625	W80CC-Z	AXLE13	Steel Tube for Fork Mount	---	---
A15	06-00510	1.5	W323A	AXLE15	For W323A Compound W&B	---	---
A15M	06-00511	1.5	W323SA	AXLE15M	For W3238A Compound W&B	---	---
A16	06-00512	0.75	F602	AXLE16	Steel Tube for W62 w/F602 Spacer	---	---
A17	06-00513	0.75	W600CC.75	AXLE17	Steel Tube	---	---
A19	06-00514	0.75	W50CC.75, W51CC.75, W51CC.75R ONLY	AXLE19	Steel Tube	---	---
A20	06-00515	0.75	NW50.75R, NW51.75R	AXLE20	Steel Tube w/Spacers for Zenith 601	---	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

HEGAR WHEEL KITS

Spun aluminum wheel kit includes aluminum wheel halves, hubs, 5/8 bearings, valve, tubeless kit and all necessary hardware, Compatible with Hegar brakes.
Note: Order tires separately.

6X6 Offset rim .....P/N 06-00322 ..... ---
6X6 Symmetrical (Quicksilver®).....P/N 06-00323 ..... ---
The following Hegar wheels are designed to fit Quicksilver® nose gear allowing clearance for the steering fork.
3.5X5 MX(L) Nose Wheel .....P/N 06-00324 ..... ---

6S X 6 SPUN ALUMINUM WHEEL WITH BRAKE KIT

6" Spun Aluminum Wheel kit includes, 2 – 6" spun aluminum wheels, 2 – 6" calipers and 4-1/2" rotors, all lines and fittings, axles included 5/8". 5/8" precision ball bearings are 800 GVW. To be run tubeless, but tubes may be used. Total weight per caliper, wheel, rotor and hub combined 3-3/4 lbs. Overall wheel width: 6.00 x 6" (3.5 rim w/stem & 2.5" no stem)
P/N 06-01270 ..... ---

HEGAR BRAKE ACCESSORIES

Order the type of master cylinder(s) & actuator best suited to your aircraft. Standard keyed axles for all aircraft, except Quicksilver®.

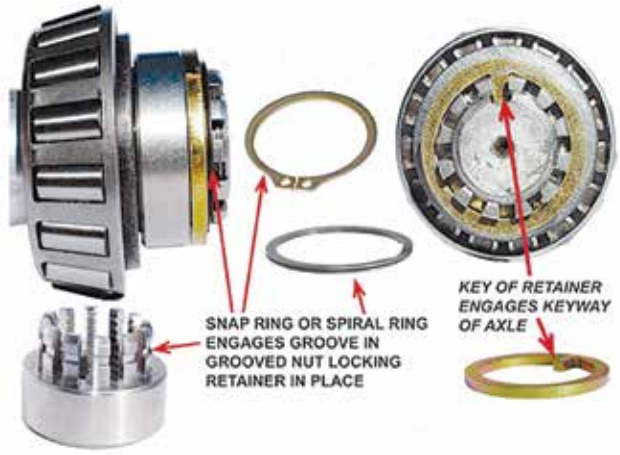
Description	Part No.	Price
Heel-Operated Master Cylinder	06-00328	---
Joystick-Mounted Master Cylinder	06-00329	---
Foot Linkage	06-00330	---
Hand Linkage	06-00331	---
Axles, 5/8" Standard, Set Of 2	06-00332	---
Axles, 5/8" Quicksilver® Set Of 2	06-00333	---
Axles, 3/4" Standard, Set Of 2	06-00334	---
Master Cylinder 5" Complete Single Lever 1/2" Bore	06-01277	---
Master Cylinder 5" Complete Single Lever 5/8" Bore	06-01671	---
Master Cylinder 5" Complete Dual T-Lever 1/2" Bore	06-01278	---
Master Cylinder 5" Complete Dual T-Lever 5/8" Bore	06-01611	---
Master Cylinder 7" Complete Dual T-Lever 1/2" Bore	06-01280	---
Master Cylinder 7" Complete Dual T-Lever 5/8" Bore	06-02812	---
Master Cylinder Complete 1/2" Bore MCT Motor Cycle	06-00329	---
Master Cylinder Complete 3/4" Bore MCT Motor Cycle	15-05690	---
Master Cylinder Only Rod End Type 1/2" Bore	15-04621	---
Master Cylinder Only Motor Cycle Type 3/4" Bore	15-06337	---
Master Cylinder Complete Heel Type 1/2 Bore	06-00328	---
Master Cylinder 7" Complete Single T-Lever 1/2" Bore	06-01279	---
Master Cylinder 7" Complete Single T-Lever 5/8" Bore	06-01775	---

HEGAR 6 INCH BRAKE ASSEMBLY KIT WITHOUT WHEELS

Kit comes complete with two sets of hubs, 4.5" rotors, calipers, brake pads as shown along with two 8" axles with hardware, 15 feet of high pressure brake line and one bleeder kit. 5/8" or 3/4" bearing options.
5/8 Bearing .....P/N 15-05703 ..... ---
3/4 Bearing .....P/N 15-08293 ..... ---

LG

TRUE-LOCK FASTENER SYSTEMS



True-Lock aviation fastener systems reduce premature wear on your wheel-end assembly parts (brakes, bearings, axles, including tires and wheels). The True-Lock system eliminates the conventional axle nut system's inherent inferior torque setting characteristics imposed by the castle nut and cotter pin (end-play).
True-Lock is the only patented aviation wheel fastener system in the world that has been awarded an STC (Supplemental Type Certificate) by the FAA for axle nut technology. True-Lock LLC holds over 1,000 FAA certifications for aviation fastener design. All True-Lock fastener systems are guaranteed for the life of your aircraft and pay for themselves over time by reducing downtime and fewer replacement parts. So, If you want a wheel fastener system for your aircraft that sets the industry standard for vibration mitigation and cost reduction, then True-Lock is what you need.
The True-Lock fastener system is the next generation of fastener technology:

- FAA Certification on over 1,000 aircrafts.
- Significantly increases safety and reliability.
- Reusable & cost effective.
- Maintenance Free - requires no cotter pins or safety wire!

SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE PRICE LIST OF TRUE-LOCK FASTENER SYSTEMS.

MATCO HUB CAP KIT
FOR MH SERIES WHEELS

Responding to customer inquiries for a kit to allow installation of the current WHLWC wheel cover on MH series wheels, MATCO mfg has introduced the MHWC hub cap kit. The kit includes wheel covers and mounting hardware for 2 wheels. The WHLWC wheel covers are made from durable ABS polymer. The wheel covers can be painted to match customer requirements. Installation can be accomplished without removing the wheel. Installation on MH wheels using the CNC spun wheel halves (introduced in early 2001) can be accomplished in about 10 minutes, On earlier MH series wheels using stamped wheel halves, some trimming of the wheel cover may be required and installation may require about 30 minutes. Furnished unpainted. 2 wheel kit.

For 5" Wheels.....P/N 06-02913 ..... ---
For 6" Wheels.....P/N 06-00446 ..... ---

MATCO BRAKE RELINE KITS

06-00571

06-00575

Matco Part No.	Our Part No.	Lining Model Used	Price each
BRL-1*	06-00571	4 of M66-106	---
BRL-2*	06-00572	4 of M66-103	---
BRL-3*	06-00573	4 of M66-1052	---
BRL-6*	06-00574	4 of M66-1052	---
BRL-323	06-00575	4 of DR323	---

*Reline kits include linings and rivets for 2 calipers.

MATCO TUBING & FITTINGS

Matco P/N#	Our P/N#	Description	Price
MSCNNR4/035	06-01133	Nylon II Tube .25	---
MSC261P	06-01134	Ferrule and Nut	---
MSC262P	06-01135	Union, Brass Fitting	---
MSC264P	06-01136	T-Fitting, 1/4" Compression.	---
MSC268P	06-01137	Straight Fitting, 1/8" NPT - 1/4" Compression	---
MSC268P-04X01	06-01138	Straight Fitting 1/16"	---
MSC269P	06-01139	Brass Elbow, 90° 1/8" NPT - 1/4" Compression	---
MSCNNR2/026	06-01140	Nylon II Tube, .125	---
MSC164P	06-01142	T-Fitting, 1/8" NPT - 1/8" Compression	---
MSC168P	06-01143	Straight Fitting, 1/8" NPT - 1/8" Compression	---
MSC169P	06-01144	Brass Elbow, 90°, 1/8" NPT - 1/8" Compression	---

GROVE CONVERSION KITS FOR PIPERS

Conversion kits are STC approved for Piper models listed below with 1-1/4" axles. No landing gear modifications required. The existing Scott master cylinders provide adequate pressure and volume for this conversion kit and need not be replaced. Comes complete with STC paperwork, 2 wheel and brake assemblies, mounting hardware, brake line extensions and fittings. Approved tire sizes include 6.00-6, 7.00-6, 8.00-6, 8.50-6 and 26x10.5-6. Brake caliper body is aluminum, wheels are available in either aluminum or lighter weight magnesium.

Model No.	Piper Models:	Description	Part No.	Price
28-4001	PA-12, PA-14, PA-16, PA-18, PA-19, PA-20	Magnesium Wheels	06-02906	---
28-4001A	PA-12, PA-14, PA-16, PA-18, PA-19, PA-20	Aluminum Wheels	06-02907	---
28-4002	J-3, J-4, J-5, PA-11, PA-15, PA-17	Magnesium Wheels	06-02904	---
28-4002A	J-3, J-4, J-5, PA-11, PA-15, PA-17	Aluminum Wheels	06-02905	---

MATCO 6" WHEELS & BRAKES FOR ULTRALIGHTS

This top quality wheel and brake set is excellent for use on high-performance ultra-lights. **Set includes**: 2 aluminum wheels & brakes with 5/8" bearings, 2 axles, 2 spac-ers, 2 brake bleeder seats & valves, 4 brake line fittings, 12 ft. of 1/4" dia. x .035 wall brake line & 1 vertical master cylinder ..... P/N 06-16800 ..... ---

Same as set #06-16800 except with 2 vertical master cylinders
P/N 06-16840 ..... ---

Same as set #06-16800 except with 1 laydown style master cylinder
P/N 06-16850 ..... ---

Same as set #06-16800 except with 2 laydown style master cylinders
P/N 06-16860 ..... ---

AVAILABLE SEPARATELY:

6" Wheel & Brake .....P/N 06-16810 ..... ---
A-4 Axle, 9.75" Long, 5/8" Dia.....P/N 06-16830 ..... ---

AZUSA LITE NYLON WHEELS
4, 5 AND 6 INCH MODELS

Azusalite wheels are made from engineering grade Nylon which combines high tensile and compressive strengths and good impact resistance. Excellent for many homebuilt and ultralight aircraft applications since they weigh 60-70% less than aluminum wheels. Azusalite wheels are offered in 4", 5" and 6" models. Replacement parts and unlisted accessories available on request.

AZUSALITE 5" WHEEL – Used as the main wheels on the Mohawk ultralight, this 5" wheel features 5/8" I.D. sealed ball bearings. Uses 4.10 / 3.50 x 5 or 5.00 x 5 tire & tube. Max Load: 475 lbs, or the load rating of the tire. Whichever is lower.....P/N 06-02500 ..... ---

AZUSALITE 4" WHEEL – A 4 inch Azusalite wheel featuring 5/8" sealed ball bearings. Uses a 4.10 / 3.50 x 4 tire & tube. Max Load: 440 lbs, or the load rating of the tire. Whichever is lower.... P/N 06-02600 ..... ---

AZUSALITE 6" WHEEL – A 6" Azusalite wheel; comes complete w/ 5/8" sealed ball bearings.Uses 4.10 / 3.50-6 or a 6.00-6 tire & tube. Max Load: 565 lbs, or the load rating of the tire. Whichever is lower.
P/N 06-02700 ..... ---

AZUSA TIRES & TUBES (SAWTOOTH TREAD)

4.10 / 3.50 x 4.....P/N 06-02800 .....--- **Ea**
4.10 / 3.50 x 5.....P/N 06-02900 .....--- **Ea**
4.10 / 3.50 x 6.....P/N 06-03000 .....--- **Ea**

AZUSA RIBBED TIRE ROUND PROFILE RIBBED ROUND PROFILE

4.80 x 4.00 x 8 Tire & Tube .....P/N 06-03010 .....--- **Ea**

AZUSA ALUMINUM WHEELS

5" AZUSA ALUMINUM WHEEL – Complete with 5/8" I.D. sealed bearing.....P/N 1144 ..... ---

5" AZUSA ALUMINUM WHEEL & BRAKE KIT – Kit consists of (2) #1144 wheels with 5/8" sealed bearings, (2) #2270 aluminum Azusa brakes, (2) #2211 brake drums (2) 11.400-5, 6-ply Lamb tires and Azusa #7131 (2) 340/300 x 5 tubes.
P/N 06-03100 ..... ---

5" AZUSA ALUMINUM WHEEL

Complete with 3/4" bearing .....P/N 06-00376 ..... ---

6" AZUSA ALUMINUM WHEEL

Complete with 5/8" I.D. sealed bearings.
Wt. 3.9 lbs .....P/N 06-03200 ..... ---

6" AZUSA ALUMINUM WHEEL

Complete with 5/8" I.D. Timken bearings.
Wt. 4.1 lbs .....P/N 06-03300 ..... ---

6" AZUSA ALUMINUM WHEEL

Complete with 3/4" I.D. Timken bearings.
Wt. 4.2 lbs .....P/N 06-03400 ..... ---

8" AZUSA ALUMINUM WHEEL & BRAKE KIT

Kit consists of (2) #1175 wheels, (2)#2530 brakes, (2)#2542 drums, (2)4.80 x 4.00 tires and tubes, & hardware. ..P/N 06-03410 ..... ---

AZUSA BRAKES FOR AZUSA 5" & 6" WHEELS

These 4.5" brakes have a long actuating arm, 5/8" mounting hole, and bonded lining. Available in anchor style w/ built-in anchor & 2 cable mounting ears, or round style which features a round aluminum backing plate. Platform required w/5" Azusalite.

Part No.	Description	Price
06-03415	Anchor Style Brake #2208	---
06-03420	Round Style Brake #2270A	---
01-00169	Brake Assy. 2272A (Right)	---
01-00306	Brake Assy. 2272A (Left)	---
06-03425	Brake Arm #2263	---

Part No.	Description	Price
06-03430	Spring #2264	---
06-03435	Cam #8235	---
06-03440	Platform #2259A	---
06-03445	Lined Shoes (1/side) #2260	---
06-03557	Brake Arm #2263-L	---

AZUSA BRAKES FOR AZUSA 8" WHEELS

These 5" brakes are used on Azusa #1175 wheels only. Features a round aluminum backing plate and actuating arm which allows for 8 positions.

Part No.	Description	Price
06-03450	Round Style Brake #2530	---
06-03455	Brake Arm #2537	---
06-03460	Spring #2539	---
06-03465	Cam #2533	---
06-03470	Lined Shoes (1/side) #2538	---
2542	Brake Drum (For 8"Wheel)	---

AZUSA 4-1/2 BRAKE DRUM

Azusa 4-1/2" Brake Drum, No Flange, Machined OD Three sets of mounting holes: 3 Hole for Tri-Star wheels 4 hole on a 3.75" diameter bolt circle 4 hole on a 3.228 bolt circle to match the mini-hub .....P/N 2211 ..... ---

AZUSA MINI AXLES

5/8-18 x 2" threads both ends, 3/16" keyway (full length of axles) black oxide plate x 8" Long ..... P/N 06-01776 ..... ---
5/8-18 x 2" threads both ends, 3/16" keyway (full length of axles) black oxide plate x 10" Long .....P/N 06-01777 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GROVE WHEEL & BRAKES

4 INCH WHEELS & BRAKES

P/N 40-101 Shown

Manufactured from aerospace grade aluminum

These 4" wheels are manufactured to the same exacting standards as the Grove 5" & 6" wheels.

They feature genuine Timken tapered roller bearings with felt grease seals.

40-1 wheel has 2-3/4" tire bead width.

40-3 wheel has 2-1/4" tire bead width.

GROVE WHEELS & BRAKES FEATURES:

- Aerospace grade materials
- Precision CNC machined
- Timken tapered roller bearings
- Felt grease seals
- Tubeless Option

From the chart below, select the proper static load rating, kinetic energy rating and brake torque for your aircraft.

Choose from Aluminum or Magnesium — Magnesium wheels weigh less than aluminum, but aluminum is more corrosion resistant. Both metals have similar strengths.

5 INCH WHEELS & BRAKES

P/N 57-124 Shown

Available in Aluminum or Magnesium

50 SERIES — Grove's basic 5" wheel.

51 SERIES — Lighter weight version of the 50 series.

55, 56 & 57 SERIES — Same wheel as the 50 series, but with heavier discs for greater kinetic energy and larger calipers for greater braking torque

6 INCH WHEELS & BRAKES

P/N 66-152 Shown

Available in Aluminum or Magnesium

60 SERIES — Grove's basic 6" wheel for 1-1/2" axles.

61 SERIES — Lighter weight version of the 60 series.

65 SERIES — Same as the 61 series, but for use with 1-1/4" axles.

66 SERIES — Same as the 60 series but with heavier discs for greater kinetic energy and larger calipers for greater braking torque.

LG

GROVE KIT NO.	OUR PART NO.	WHEEL NO.	STATIC LOAD RATING POUNDS	KINETIC ENERGY FT-LBS.	DISC THICK-NESS (INCHES)	BRAKING TORQUE INCH-LBS.	CALIPER NO.	PISTON DIA. (INCHES)	BRAKE PAD NO.	AXLE DIA. (INCHES)	WEIGHT LBS. (SEE REF. 1)	PRICE/ SET (SEE REF. 2)
FOUR INCH WHEELS AND BRAKES												
40-101	06-00858	40-3A	700	72,000	0.160	1,384	39-1A	1x1.250	66-106	0.75	4.05	---
40-102	06-00859	40-1A	700	72,000	0.160	1,832	39-2A	1x1.438	66-106	0.75	4.16	---
FIVE INCH WHEELS AND BRAKES												
50-101	06-00094	50-1A	1,285	120,149	0.190	2,364	30-1A	1x1.500	66-106	1.25	7.10	---
50-201	06-00860	50-1M	1,285	120,149	0.190	2,364	30-1M	1x1.500	66-106	1.25	6.10	---
51-101	06-00589	51-1A	800	120,149	0.190	2,364	30-1A	1x1.500	66-106	1.25	6.60	---
51-201	06-00862	51-1M	800	120,149	0.190	2,364	30-1M	1x1.500	66-106	1.25	5.60	---
55-112	06-00863	55-1A	1,285	162,315	0.250	3,283	31-2A	2x1.250	66-111	1.25	7.60	---
55-212	06-00864	55-1M	1,285	162,315	0.250	3,283	31-2M	2x1.250	66-111	1.25	6.45	---
56-113	06-00095	56-1A	1,285	205,146	0.313	3,283	31-3A	2x1.250	66-111	1.25	7.90	---
56-213	06-00867	56-1M	1,285	205,146	0.313	3,283	31-3M	2x1.250	66-111	1.25	6.80	---
57-124	06-00096	57-1A	1,285	246,175	0.375	4,345	32-4A	2x1.438	66-111	1.25	8.30	---
57-224	06-00870	57-1M	1,285	246,175	0.375	4,345	32-4M	2x1.438	66-111	1.25	7.20	---
SIX INCH WHEELS AND BRAKES												
60-162	06-00101	60-1A	1,750	206,406	0.250	5,052	36-2A	1x2.000	66-105	1.50	10.50	---
60-262	06-00798	60-1M	1,750	206,406	0.250	5,052	36-2M	1x2.000	66-105	1.50	9.20	---
61-111	06-00590	61-1A	1,200	170-149	0.190	3,947	31-1A	2x1.250	66-111	1.50	9.20	---
61-211	06-00799	61-1M	1,200	170-149	0.190	3,947	31-1M	2x1.250	66-111	1.50	8.10	---
65-203	06-01805	65-1M	1.250	170-149	0.190	3,868	30-3M	1X1.750	066-106	1.25	7.40	---
65-207	06-00879	65-1M	1,250	170-149	0.190	3,868	30-7M	1x1.750	66-106	1.25	7.43	---
65-211	06-00881	65-1M	1,250	170-149	0.190	3,947	31-5M	2x1.250	66-111	1.25	7.64	---
65-222	06-00883	65-5M	1,250	206,406	0.250	5,219	32-6M	2x1.438	66-111	1.25	7.90	---
66-152	06-00885	60-1A	1,750	206,406	0.250	7,735	35-6A	2x1.750	66-106	1.50	11.15	---
66-154	06-00886	60-5A	1,750	280,188	0.375	7,735	35-4A	2x1.750	66-106	1.50	11.82	---
66-252	06-00888	60-1M	1,750	206,406	0.250	7,735	35-6M	2x1.750	66-106	1.50	9.90	---
66-254	06-00890	60-5M	1,750	280,188	0.375	7,735	35-4A	2x1.750	66-106	1.50	11.82	---
67-174	06-00892	67-1A	2,500	280,188	0.375	7,735	37-8A	2x1.750	66-105	1.50	14.25	---
67-274	06-00894	67-1M	2,500	280,188	0.375	7,735	37-4M	2x1.750	66-105	1.50	12.25	---

NOTE: Braking torque calculated at 600 psi brake line pressure. Ref 1: Weight for one wheel, disc and caliper assy. Ref 2: Set includes two wheel assys.
"A" in wheel No. = Aluminum "M" in wheel No.= Magnesium

GROVE WHEELS & BRAKES

NOSE WHEELS

Genuine Aircraft Quality!

- Cast from aerospace grade materials
- Precision CNC Machined
- Timken Tapered Roller Bearings
- Felt Grease Seals

"GROVE P/N"	"OUR P/N"	WHEEL SIZE	STATIC LOAD RATING	AXLE DIA.	WEIGHT	PRICE
49-1A	06-00843	4 Inch	1,000 lbs	0.75"	1.98 lbs	---
59-1A	06-00102	5 Inch	1,285 lbs	1.25"	3.90 lbs	---
59-1M	06-00911	5 Inch	1,285 lbs	1.25"	2.90 lbs	---
59-2A	06-00912	5 Inch	800 lbs	1.25"	3.40 lbs	---
59-2M	06-00913	5 Inch	800 lbs	1.25"	2.40 lbs	---
69-1A	06-00103	6 Inch	1,750 lbs	1.50"	6.00 lbs	---
69-1M	06-00915	6 Inch	1,750 lbs	1.50"	4.80 lbs	---

GROVE BRAKE LININGS

All Grove Brake Pads are components of FAA-TSO brake assemblies. Grove Brake Pads are FAA-PMA for many popular certificated aircraft. Individual pads do not include rivets. Pad kits include 4 pads and all necessary rivets

Description	Part No.	Price
Brake Lining Rivet	06-02966	---
Brake Lining 066-105	06-02968	---
Brake Lining 066-106	06-02969	---
Brake Lining 066-108	06-02970	---
Brake Lining 066-111	06-02971	---
Brake Pad Kit 066-105K	06-03022	---
Brake Pad Kit 066-106K	06-03023	---
Brake Pad Kit 066-108K	06-03024	---
Brake Pad Kit 066-111K	06-03025	---

800X4 DISC BRAKE CONVERSION

STC Approved FAA-PMAAPPROVED MODELS INCLUDE:
J-3, J-4, J-5, PA-11, PA-12 PA-14, PA-15 PA-16, PA-17PA-18, PA-19 PA-20
Good news for owners of early Piper aircraft. Say good-bye to brake expander tube problems forever!

- No more soft brake pedal
- Easy Installation
- Improved braking and ground handling

Maintain the classic cub look by installing modern disc brakes on your existing 800x4 wheels and tires. Use your existing wheels, tires, tubes, master cylinders and brake lines.

STC Kit comes complete with all parts, special tools and STC documentation. Installation requires only standard hand and rivet tools. No modifications are required to be made on the gear leg, or any other part of the aircraft.
P/N 06-00837 ..... ---

AXLE SHIMS

Reduce Tire Wear
Improve Ground Handling

TOE-IN/OUT REALIGNMENT SHIMS

Install these axle shims between your landing gear and axles to insure that your tires track true. Correct any misalignment of toe-in or out in 1/4° increments. Precision machined from 6061-T6 aluminum ..... **Price --- each.**

Correction	500X5	600X6
1/4°	06-00925	06-00928
1/2°	06-00926	06-00929
3/4°	06-00927	06-00930

CAMBER ADJUSTMENT SHIMS

Adjust the vertical alignment of your wheels with these camber adjustment shims. Precision machined from 6061-T6 aluminum.
Price: --- each.

Correction	500X5	600X6
1/2°	06-00931	06-00934
1°	06-00932	06-00935
2°	06-00933	06-00936

500X5 STANDARD AXLE

Precision CNC machined from 2024-T3 aluminum with clear anodized protective finish Weight 0.92 lbs. 1.25" diameter Static Load Rating 1,285 lbs.

Use with Grove 50, 51, 52, 55, 56, 57, & 58 and Cleveland 500x5 ..... P/N 06-00917 ..... ---

500X5 STANDARD AXLE WITH WHEEL PANT STUB

Same as the 500x5 standard axle but with 1" extension to attach wheel pant. End tapped for 1/4-28 screw Weight 0.95lb.

Use with all Grove 5" wheels with 1-1/4" bearings ..... P/N 06-00601 .....

600X6 STANDARD AXLE

Precision CNC machined from 2024-T3 aluminum with clear anodized protective finish Weight 1.28 lbs. 1.50" diameter Static Load Rating 1,750lbs

Use with Grove 60, 61, & 66 and Cleveland 600x6 wheels ..... P/N 06-00919 ..... ---

600X6 STANDARD AXLE WITH WHEEL PANT STUB

Same as the 600x6 standard axle but with 2" extension to attach wheel pant. End tapped for 1/4-28 screw Weight 1.43lb.

Use with Grove 60, 61, & 66, and Cleveland 600x6 wheels ..... P/N 06-00602 ..... ---

400X4 AXLES

Use with Grove 40-1A Wheel Weight 0.37 lbs.
P/N 06-00921 ..... ---
Use with Grove 40-3A Wheel Weight 0.38lbs
P/N 06-00922 ..... ---

Solid 7075-T6 aluminum with clear anodized finish. Diameter 0.75" Static Load Rating 700 lbs.

1-1/4" DIAMETER 600X6 AXLES

Same construction as the above axles, but with 1.25" diameter Use with Grove 65 Series Wheels.

With wheel pant stub.... P/N 06-00923 ..... ---
Without stub ..... P/N 06-00924 ..... ---

LG

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GROVE MASTER BRAKE CYLINDERS

Clevis End—3/16" hole, 1/4" wide slot

Eye Bolt End—3/16" hole, 1/2" head diameter

Eye Bolt End - 3/16" hole, 3/8" head diameter

These master cylinders are the perfect choice for all Grove brake systems as well as use with other major brands that require a high pressure master cylinder. Consider the following when selecting the proper master cylinder for your aircraft:

1.The style (with or without integral reservoir, etc.)

2.The pin-to-pin length—this is the length between the upper and lower attach holes.

3.The attach type for the upper end (clevis, or eye bolt)

4.The attach type for the lower end (cross drilled, slotted, etc.)

REMOTE BRAKE FLUID RESERVOIRS

Quality machined from 6061 billet. Top is retained by snap ring with O-ring seal. Supplied with vented 1/8" NPT cap plug. Anodized for corrosion resistance.

2.75" high 1.75" diameter. Holds 2.42 fluid ozs. Weighs 3.6 ounces.

Designed to attach to firewall or other remote location. Adequate capacity to serve both master cylinders. Outlet has 1/8" female NPT thread at bottom of reservoir.

067-054 ..... P/N 06-00819..... ---

Normal installation requires two (one for each master cylinder.) Supplied with 1/8" NPT fitting. Attaches directly to your master cylinder.

1.98" high; 1.38" diameter Holds 1.10 fluid ounces Weighs 1.5 ounces.

067-050

P/N 06-00818 ..... ---

Cross Drilled - 3/16" holes inline with fitting and also 90° to fitting

Grove P/N	Our Part No.	Pin-to-Pin Length	Upper Attachment	Lower Attachment	Weight	Price
670-1	06-00594	7.5"	Clevis	Inline	5.9 oz.	---
670-2	06-00866	8.0"	Clevis	Inline	6.2 oz.	---
670-3	06-00104	7.5"	Clevis	90° Offset	5.9 oz.	---
670-4	06-00869	8.0"	Clevis	90° Offset	6.2 oz.	---
670-8	06-01286	7.25"	Clevis	90° Offset	5.9 oz.	---
670-13	06-00871	8.0"	3/8" Eye Bolt	90° Offset	6.2 oz.	---
670-14	06-00872	8.0"	3/8" Eye Bolt	Inline	6.2 oz.	---
670-15	06-00596	8.0"	1/2" Eye Bolt	90° Offset	6.2 oz.	---
670-16	06-00873	7.5"	1/2" Eye Bolt	90° Offset	5.9 oz.	---
670-17	06-00597	8.0"	1/2" Eye Bolt	Inline	6.2 oz.	---
670-18	06-00875	7.5"	1/2" Eye Bolt	Inline	5.9 oz.	---
670-19	06-00877	7.5"	3/8" Eye Bolt	90° Offset	5.9 oz.	---
670-20	06-00878	7.5"	3/8" Eye Bolt	Inline	5.9 oz.	---

Displacement = 0.429 cu-in Stroke = 1.4"

P/N 670-1

90° Offset - 3/16" hole drilled 90° to fitting. Tab is inline with fitting.

Grove P/N	Our Part No.	Pin-to-Pin Length	Upper Attachment	Lower Attachment	Weight	Price
671-20	06-00880	7.5"	1/2" Eye Bolt	Cross Drilled	5.9 oz.	---
671-21	06-00882	7.5"	3/8" Eye Bolt	Cross Drilled	5.9 oz.	---
671-22	06-00884	8.0"	1/2" Eye Bolt	Cross Drilled	6.2 oz.	---
671-23	06-00887	8.0"	3/8" Eye Bolt	Cross Drilled	6.2 oz.	---

Displacement = 0.429 cu-in Stroke = 1.4"

P/N 671-21

Inline -3/16" hole drilled inline with fitting Tab is offset 90° to fitting

Grove P/N	Our Part No.	Pin-to-Pin Length	Upper Attachment	Lower Attachment	Weight	Price
672-1	06-00889	5.0"	Clevis	Cross Drilled	4.0 oz.	---
672-2	06-00891	5.5"	Clevis	Cross Drilled	4.2 oz.	---
672-3	06-00893	6.0"	Clevis	Cross Drilled	4.5 oz.	---

Displacement = 0.236 cu-in Stroke = .77"

P/N 672-1

Slotted -0.090" slot inline with fitting. 3/16" hole drilled 90° to fitting.

Grove P/N	Our Part No.	Pin-to-Pin Length	Upper Attachment	Lower Attachment	Weight	Price
673-9	06-00895	7.5"	Clevis	Cross Drilled	5.9 oz.	---
673-10	06-00896	8.0"	Clevis	Cross Drilled	6.2 oz.	---
673-11	06-00897	7.5"	1/2" Eye Bolt	Left Offset	5.9 oz.	---
673-12	06-00898	7.5"	1/2" Eye Bolt	Right Offset	5.9 oz.	---
673-13	06-00899	7.5"	1/2" Eye Bolt	Slotted 90°	5.9 oz.	---
673-14	06-00901	7.5"	1/2" Eye Bolt	Slotted Inline	5.9 oz.	---

Displacement = 0.429 cu-in Stroke = 1.4"

P/N 673-9

Right Offset Tab 3/16" hole drilled 90° to fitting

Grove P/N	Our Part No.	Pin-to-Pin Length	Upper At-tachment	Lower Attachment	Weight	Price
674-1	06-00902	7.5"	Clevis	Cross Drilled	5.0 oz.	---
674-2	06-00903	8.0"	Clevis	Cross Drilled	5.0 oz.	---
674-3	06-00904	7.0"	Clevis	Cross Drilled	5.0 oz.	---

Displacement = 0.429 cu-in Stroke = 1.4"

P/N 674-1

Grove P/N	Our Part No.	Pin-to-Pin Length	Upper Attachment	Lower Attachment	Weight	Price
675-1	06-00097	8.0"	Clevis	Inline	8.1 oz.	---
675-2	06-00905	7.5"	Clevis	Inline	7.9 oz.	---
675-3	06-00593	8.0"	Clevis	90° Offset	8.1 oz.	---
675-4	06-00906	7.5"	Clevis	90° Offset	7.9 oz.	---

Displacement = .368 cu-in Stroke = 1.2"

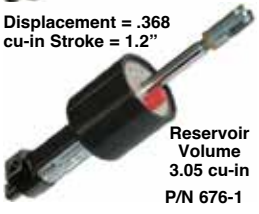
Reservoir Volume 2.0 cu-in

P/N 675-1

Left Offset Tab 3/16" hole drilled 90° to fitting

Grove P/N	Our Part No.	Pin-to-Pin Length	Upper Attachment	Lower Attachment	Weight	Price
676-1	06-00907	8.0"	Clevis	Inline	9.3 oz.	---
676-2	06-00908	7.5"	Clevis	Inline	9.0 oz.	---
676-3	06-00909	8.0"	Clevis	90° Offset	9.3 oz.	---
676-4	06-00910	7.5"	Clevis	90° Offset	9.0 oz.	---

Displacement = .368 cu-in Stroke = 1.2"



Reservoir Volume 3.05 cu-in

P/N 676-1

All master cylinders have a 5/8" bore, 1/8" NPT outlets, are rated at 1,000 psi for use with MIL-H-5606 hydraulic fluid.

LG

ABI WHEELS & BRAKES – RAPCO BRAKES

ALASKAN BUSHWHEEL CONVERSION KITS

ABI-199-71 ABI-199-62

ABI-199-71 - Wheel and Brake kit for Piper Aircraft J3, J5C, PA-11, PA-12, PA-14, PA-15, PA-16, PA-17, PA-18 "150", PA-18A "150", and PA-20. FAA-PMA Approved. Approved for Aviat Husky per Aviat Type Certificate .....P/N 06-02831 ..... ---

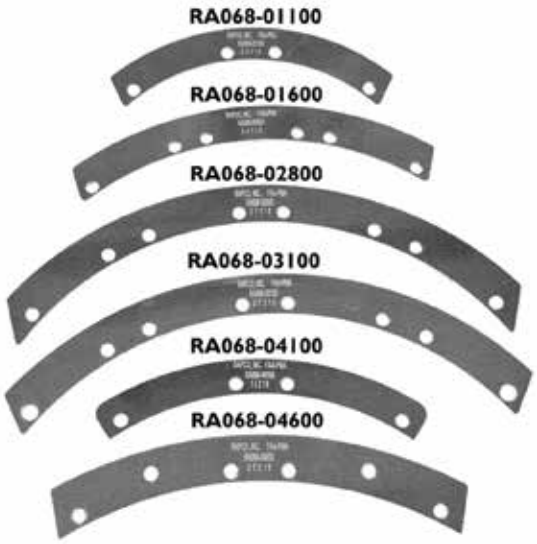
ABI-199-62/62A - Wheel and Brake kit for Cessna Aircraft Aeries: 180, 185, 206. Also approved for Cessna Aircraft Series 170 and 172 and on Piper Aircraft Series: J-3, J3C, PA-11, PA-12, PA-14, PA-16 and PA-18 with F. Atlee Dodge STC SA02231AK available separately. Please inquire with your order if needed. FAA-PMA Approved. American Champion 7GCBC, 7GCAA, 7ECA and 8GCBC. Maule M-4 , M-5, M-6, M-7 and M-9ABI-199-62(3 bolt).....P/N 06-02830 ..... ---
ABI-199-62A(6 bolt).....P/N 06-02829 ..... ---

LG

ABI WHEEL AND BRAKE PARTS

Description	Part No.	Price
Bearing Cone ABI-08125	06-02859	---
Bearing Race ABI-08231	06-02860	---
Bearing Race ABI-13836	06-02861	---
Torque Plate Bushing Reducer 3/8 To 5/16 Bolt	06-02864	---
Seal Ring ABI-153-00200	06-02865	---
Seal Ring ABI-153-00300	06-02866	---
Seal Ring ABI-153-00400	06-02867	---
Seal Cup ABI-153-01500	06-02868	---
Outer Felt Grease Seal AABE-154-00200	06-02869	---
Felt Grease Seal ABI-154-00300	06-02870	---
Felt Grease Seal ABI-154-01300	06-02871	---
Inner Felt Grease Seal ABI-154-02800	06-02872	---
Retaining Snap Ring ABE-155-00100	06-02873	---
Retaining Ring ABI-155-00200	06-02874	---
Brake Piston ABI-62-00500	06-02875	---
Brake Pressure Plate ABE-63-00600	06-02876	---
Brake Pressure Plate ABE-63-01100	06-02877	---
Brake Anchor Bolt ABI-69-01900	06-02878	---
Brake Anchor Bolt ABI-69-02600	06-02879	---
Brake Piston ABI-92-00600	06-02881	---
Brake Pad Rivet APS-105-00200	06-02882	---
Inner Wheel Half ABI-161-03000	06-02883	---
Inner Wheel Half ABI-161-07000	06-02884	---
Inner Wheel Half ABI-161-08700	06-02885	---
Outer Wheel Half ABI-162-02700	06-02886	---
Outer Wheel Half ABI-162-06500	06-02887	---
Outer Wheel Half ABI-162-08100	06-02888	---
Brake Assy 1.5" ABI-30-52n	06-02889	---
Brake Caliper 1.5" Only ABI-30-52nbc	06-02890	---
Brake Caliper 1.25" Only ABI-30-60a	06-02891	---
Brake Caliper 1.25" Only ABI-30-60abc	06-02892	---
Wheel Assy 1.25" Axle, 6 Bolt ABI-40-60	06-02893	---
Wheel Assy 1.5" Axle, 3 Bolt ABI-40-75-d	06-02894	---
Wheel Assy 1.5" Axle, 6 Bolt ABI-40-75t	06-02895	---
Brake Cylinder ABI-61-01800	06-02896	---
Brake Cylinder ABI-61-06701	06-02897	---
Brake Backing Plate ABI-64-00500	06-02898	---
Brake Backing Plate ABI-64-01500	06-02899	---
Brake Anchor Plate ABI-75-12500	06-02901	---
Brake Anchor Plate ABI-75-13600	06-02902	---

RAPCO SHIM INSULATORS



Model No.	Description	Part No.	Price
RA068-01100	Replaces: Cleveland P/N 068-01100	06-02845	---
RA068-01600	Replaces: Cleveland P/N 068-01600	06-02846	---
RA068-02800	Replaces: Cleveland P/N 068-02800	06-02847	---
RA068-03100	Replaces: Cleveland P/N 068-03100	06-02848	---
RA068-04100	Replaces: Cleveland P/N 068-04100	06-02957	---
RA068-04600	Replaces: Cleveland P/N 068-04600	06-02849	---
RA068-01700	Replaces: Cleveland P/N 068-01700	06-03073	---
RA068-02700	Replaces: Cleveland P/N 068-02700	06-03074	---
RA068-02900	Replaces: Cleveland P/N 068-02900	06-03075	---
RA068-3000	Replaces: Cleveland PN. 068-03000	05-28844	---
RA068-03300	Replaces: Cleveland PN 068-03300	06-04168	---
RA068-03900	Replaces: Cleveland PN. 068-03900	05-28845	---

RAPCO PRESSURE PLATES

Description	Part No.	Price
Rapco Pressure Plate RA063-01100	06-02850	---
Rapco Pressure Plate RA063-01200	06-02851	---
Rapco Pressure Plate RA063-01300	06-02852	---
Rapco Pressure Plate RA063-30025	06-02853	---
Replaces: Cleveland P/N: 073-02600	06-03478	---
Replaces: Cleveland P/N: 073-02600	06-03479	---
Replaces: Cleveland PN: 073-02600	06-03479	---

RAPCO PMA BRAKE PARTS

RAPCO Part No.	Our Part No.	Description	OEM Part No.	Price
RA063-02500	06-03072	Pressure Plate	063-02500	---
RA068-01700	06-03073	Shim Insulator	068-01700	---
RA068-02700	06-03074	Shim Insulator	068-02700	---
RA068-02900	06-03075	Shim Insulator	068-02900	---
RA073-08500	06-03076	Pressure Plate Assembly	073-08500	---
RA109-00200	06-03078	Wear Pad	109-00200	---
RA109-00201	06-03079	Wear Pad	109-00201	---
RA109-01500	06-03080	Wear Pad	109-01500	---
RA109-03000	06-04758	Wear Pad	109-03000	---
RA205-02900	06-03082	Key Drive	205-02900	---

RAPCO KEY DRIVE

FAA-PMA Key Drive - Approved replacement for Cleveland 205-02900. Installation Eligibility: Daher Aerospace TBM 700 P/N 06-03082 ..... ---

RAPCO DRIVE KEY - RA205-05201

Rapco offers PMA approved replacement drive key for: Pilatus Aircraft Ltd - PC-12/47E and With STC SA01376CH installed: PC-12, PC-12/45 & PC-12/47E.....P/N 06-03502 .....

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

BERINGER WHEEL & BRAKE KITS

Upgrade your aircraft and save up to 9 lbs with high performance BERINGER® wheels and brakes. Complete main wheel and brake sets are designed to mount directly, replacing original equipment. Wheels are aluminum red anodized, fully CNC machined, with O-rings for Tubeless mounting.
Brake calipers use sintered metallic pads and stainless steel discs for increased lifetime.
The kit includes: 2 main wheels with brakes and stainless steel discs, bolt-on axles, master cylinders, fluid reservoirs, hydraulic anti-skid, stainless steel brake lines and fittings and detailed installation manual.
If your aircraft is not listed below, please ask for a special quotation, we can equip 99% of the existing aircraft.

COMPLETE WHEEL AND BRAKE KITS

Beringer Part No.	Our Part No.	Aircraft Type	Wheel Assembly	Price
FOR EXPERIMENTAL AIRCRAFT				
SLC02	06-01093	Lancair 320/360 (retractable LG)	5.00-5	---
SLC01	06-01094	Lancair Legacy (retractable LG)	5.00-5	---
SGL02	06-01622	Glasair III (retractable LG)	5.00-5	---
SFA01	06-01623	Falco	5.00-5	---
SLE01	06-02026	Long'Ez	5.00-5	---
SLE02	06-03052	Vari'Ez	4.00-5	---
SJU01	06-03084	Jabiru J400/430	5.00-5	---
FOR ULTRALIGHT AIRCRAFT AND LSA				
SRA02	06-01626	RANS Coyote (axle bolted with screws)	6.00-6	---
SPP01	06-01628	Pipistrel Sinus, Virus	4.00-6	---
SSK01	06-01629	Skyranger - Nynja	4.00-6	---
SSA01	06-01097	Zlin Savage (tire < 29 ")	6.00-6	---
SSA02	06-01759	Zlin Savage (tire > 29 ") + Dual brake	6.00-6	---
SEU01	06-01761	Evektor Eurostar/Sportstar	4.00-6	---
SBR01	06-01762	Breezer	5.00-5	---
SFD01	06-01763	Flight Design CTSW	4.00-6	---
STP01	06-01764	Tecnam P92	4.00-6	---
STP02	06-01765	Tecnam P2008	5.00-5	---
SZH05	06-01766	Zenair (all type)	6.00-6	---
SSC01	06-02025	TL Sting Carbon	4.00-5	---
SJU03	06-03087	Jabiru J170	4.00-6	---
FOR VAN'S AIRCRAFT				
SRVFU01	06-01767	Fuselage kit-RV6,7,8,9,10,14-Basic set	–	---
SRVFU02	06-01768	Fuselage kit-RV6,7,8,9,10,14-Basic set + copilot brakes	–	---
SRVFU03	06-01769	Fuselage kit-RV6,7,8,9,10,14-Basic set + parking brake	–	---
SRVFU04	06-01770	Fuselage kit-RV6,7,8,9,10,14-Basic set + parking brake + copilot brakes	–	---
SRVFI02	06-01772	Finishing kit-RV6,7,8,9-Main wheels	5.00-5	---
SRVFI03	06-01773	Finishing kit-RV8 Grove LG-Main wheels	5.00-5	---
SRVFI04	06-03088	Finishing kit-RV14-Main wheels	5.00-5	---
SRVFI05	06-03139	Finishing kit-RV10-Main wheels	6.00-6	---
SRVCO03	06-03089	Complete Wheel And Brake Kit-RV3	5.00-5	---

OPTIONS - CAN BE ORDERED SEPARATELY

Beringer Part No.	Our Part No.	Option	Description	Price
PKG01N	06-02012	Parking brake valve kit	Provided with extra hose and fittings	---
INOBE	06-03092	Amphibian use	Stainless steel ball bearing for one wheel	---

FRONT WHEEL / TAIL WHEEL KITS – SPECIAL AXLE FOR EACH AIRCRAFT

Beringer Part No.	Our Part No.	Description	Wheel Assy.	Weight (lbs.)	Price
SST10	06-02018	Tailwheel for replacement on Matco fork	3.50-4	**2.53**	---
SST11	06-02019	Tailwheel for replacement on Scott fork	3.50-4	**2.53**	---
JC-01	06-00957	Tailwheel for Pipistrel Sinus/Taurus	200x50	**1.83**	---

SUPPLEMENTAL TYPE CERTIFICATE – DELIVERED WITH AN EASA FORM1

Beringer Part No.	Our Part No.	Description	Price
STC-013	06-03093	Complete wheel and brake kit for Diamond DA42	---
STC-012.1	06-03094	Complete wheel and brake kit for Extra 300/330 – Single seater	---
STC-012.2	06-03095	Complete wheel and brake kit for Extra 300/330 – Two seater	---
STC-003	06-02020	Complete wheel and brake kit for Centrair Pegasus	---
STC-005	06-02022	Complete wheel and brake kit for Schleicher ASW20	---
STC-007	06-02023	Complete wheel and brake kit for Schempp-Hirth Ventus/Discus 2	---

BERINGER WHEEL & BRAKE KIT FOR CIRRUS SR 20 / SR22
Dual Brake System - No Tires - Red
P/N 06-04227 ..... ---

BERINGER NOSE WHEEL RA-015 (A)
Beringer Nose Wheel RA-015 (A)
P/N 06-04181 ..... ---

BERINGER MASTER BRAKE CYLINDERS

The seals inside the brake master cylinders are specific for each type of brake fluid.

- It is not possible to put DOT4 brake fluid in a master cylinder with seals for MINERAL (MIL) fluid and it is not possible to put MINERAL brake fluid in a master cylinder with seals for DOT4 brake fluid.

To Order use "Base Part No." followed by the dash number of desired brake fluid below.

- E is for DOT4 brake fluid (Example: 06-03098-E)
- N means for MINERAL (MIL) brake fluid (Example: 06-03098-N)

RUDDER MASTER CYLINDER ASSEMBLY

Beringer Part No.	Our Part No.	Attachments	Pin-to-Pin Length				Bore		Weight		Price
			Min		Max						
			Inch	mm	Inch	mm	Inch	mm	oz	g	
MP-001	06-03098	CHP-001	7.441	189	8.189	208	3/16	14.5	5.89	167	---
MP-001.2	06-03100	CHP-007	7.441	189	8.189	208	3/16	14.5	5.82	165	---
MP-002	06-03104	- -	-	-	-	-	1/2	12.2	3.53	100	---
MP-002.1	06-03105	ZM-001	5.433	138	5.630	143	1/2	12.2	4.15	118	---
MP-002.2	06-03106	CHP-003	5.512	140	5.669	144	1/2	12.2	3.96	112	---
MP-002.3	06-03107	CHP-003 - ZM-001	6.457	164	6.929	176	1/2	12.2	4.81	136	---
MP-002.4	06-03108	CHP-003 - CHP-003	6.654	169	6.929	176	1/2	12.2	4.62	131	---
MP-002.5	06-03109	ZM-001 - ZM-001	6.496	165	6.969	177	1/2	12.2	5.00	142	---
MP-002.6	06-03125	PGT-002+ZM-001 - ZM-001	6.535	166	6.929	176	1/2	12.2	4.81	136	---
MP-002.7	06-03126	CHP-006	5.118	130	5.433	138	1/2	12.2	3.72	105	---
MP-002.8	06-03127	CHP-003	5.512	140	5.669	144	1/2	12.2	3.76	107	---
MP-003	06-03128	CHP-002	7.32	186	7.56	192	1/2	12.2	4.30	122	---
MP-003.1	06-03129	CHP-002	8.07	205	8.31	211	1/2	12.2	4.80	136	---
MP-003.2	06-03130	CHP-005	7.32	186	7.56	192	1/2	12.2	4.41	125	---
MP-003.3	06-03131	CHP-002	7.32	186	7.56	192	1/2	12.2	4.27	121	---

LG

LEVER KIT FOR MP-XXX BRAKE MASTER CYLINDER

Beringer Part No.	Our Part No.	Brake master cylinder (not included)	Weight Oz.	Price
MP-004.1	06-01754	MP-002.3	8.77	---
MP-004.2	06-01755	MP-002.3	16.06	---
MP-004.3	06-01756	MP-002.8	9.30	---
MP-004.4	06-01757	MP-002.8	17.11	---
MP-004.5	06-03117	MP-002.8	9.58	---
MP-004.6	06-03118	MP-002.8	10.33	---
MP-004.7	06-03119	MP-002.8	8.48	---

ATTACHMENTS

Beringer Part No.	Our Part No.	Description	Weight Oz.	Price
CHP-001	06-03135	Clevis	0.83	---
CHP-002	06-01748	Clevis	0.23	---
CHP-003	06-01749	Clevis	0.40	---
CHP-004	06-01750	Clevis	0.39	---
CHP-005	06-01751	Clevis	0.32	---
CHP-005.1	06-03136	Clevis	0.37	---
CHP-007	06-03137	Clevis	0.79	---
CHP-008	06-03110	Clevis	0.27	---
CHP-009	06-03112	Clevis	0.80	---
ZM-001	06-01747	Clevis	0.792	---
BGE-011	06-01752	Clevis	0.159	---

INTEGRAL BRAKE FLUID RESERVOIR

• Vertical or horizontal mounting • Available for DOT4 or MIL Fluid • CNC machined from aluminum billet • Incorporates tight bellows • Attached directly to the master cylinder • 100% tight, no leak, perfect for aerobatic use.

Beringer Part No.	Our Part No.	Weight (oz)	Price
HFA02N	06-01644	1.94	---

BERINGER REPLACEMENT VALVE STEM

Beringer Replacement Valve Stem A-001 for the Nose Wheel Assembly 4.00-6 SL.....P/N 06-03039 ..... ---

BERINGER SPARE CLIPS

Stainless steel clips between wheel rim and disc. Includes: 10 left and 10 right (set for 1 wheel), procedure.
Set of 20. ..... P/N 06-01111 ..... ---

BERINGER WHEEL CLIP CLP-001(B)

Beringer Wheel Clip CLP-001(B).....P/N 06-04182 ..... ---

BERINGER TIRE CHANGING TOOL

Specific tire change tool for Beringer wheels with conical aluminum spacer to insert tire on wheel half. Plywood flanges maintain tire while positioning second wheel half with the O-ring. Includes: Plywood flanges, bolts with butterfly nut and conical aluminum spacer.
Beringer 5" wheels.... P/N 06-01109..... ---
Beringer 6" wheels.... P/N 06-01110..... ---

BERINGER WHEEL O-RINGS

These O-rings need to be replaced at each tire changing. Includes: 2 large O-rings and 1 small O-ring. *Important note: The KDF series are for non-certified aircraft and older Beringer wheels in three parts. New Beringer wheels are 2 parts, and need only one O-ring of the J-JTR series. EASA Form 1 is available if required for J-JTR series only, at an additional charge of $10 per document.

4" Wheel O-Rings KDF03.....P/N 06-01992 ..... ---
O-Ring J-TR-006N* .....P/N 06-01994 ..... ---
O-Ring J-TR-007N* .....P/N 06-01995 ..... ---
O-Ring J-JTR-017N* .....P/N 06-01996 ..... ---

BERINGER BRAKE PADS

Friction material: sintered metal. High coefficient of friction, very long life time, no fading till very high temperatures: 1100° F Includes: 2 brake pads (for 1 brake caliper), bolts and procedure

Description	Model	Part No.	Price
Pads for BERINGER standard caliper EA-006 or EA-001	ZEA01	06-01103	---
Pads for BERINGER caliper EA-002N(A), EA-002E(A), EA-002.2N(A) & EA-002.2E(A)	PQT-009(A)*	06-03027	---
Pads for BERINGER caliper EA-003N and EA-003.4N	PQT-010*	06-01991	---

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BERINGER WHEEL & BRAKE PARTS

BERINGER WHEEL SERVICE PARTS

Description	Beringer P/N	Part Number	Price
Outer bearing - Individual	B-BE-001	06-04287	---
Inner bearing - Individual	B-BE-002	06-04286	---
Bearing - Individual	B-BE-003	06-04285	---
Bearing - Individual	B-BE-007	06-04284	---
Bearing - Individual	B-BE-008	06-04283	---
Bearing - Individual	B-BE-013	06-04282	---
Bearing - Individual	B-BE-014	06-04281	---
Circlip - Individual	C-AL-001	06-04278	---
Circlip - Individual	C-AL-002	06-04277	---
Circlip - Individual	C-AL-003	06-04276	---
Circlip - Individual	C-AL-006	06-04275	---
Circlip - Individual	C-AL-008	06-04274	---
Circlip - Individual	C-AL-009	06-04273	---
Circlip - Individual	C-AL-011	06-04272	---
Wheel clip - Individual	CLP-001(B)	06-04182	---
Wheel clip - Individual	CLP-002(C)	06-04271	---
Wheel clip - Individual	CLP-002(D)	06-04270	---
Wheel clip - Individual	CLP-004(A)	06-01654	---
Wheel clip - Individual	CLP-006(A)	06-04269	---
Wheel O-ring - Individual - 5” Wheel	J-JTR-006N	06-01994	---
Wheel O-ring - Individual - 6” Wheel	J-JTR-007N	06-01995	---
Wheel O-ring - Individual	J-JTR-009N	06-04253	---
O-ring - Individual	J-JTR-015N	06-04252	---
Wheel O-ring - Individual	J-JTR-016N	06-04251	---
Valve O-ring - Individual	J-JTR-017N	06-01996	---
Wheel O-ring - Individual	J-JTR-019N	06-01992	---
O-ring - Individual	J-JTR-023N	06-04250	---
O-ring - Individual	J-JTR-024N	06-04249	---
Lipseal - Individual	J-JBE-002N	06-04256	---
Lipseal - Individual	J-JBE-004N	06-04255	---
Lipseal - Individual	J-JBE-005N	06-04254	---
Screw M5x20/Vis M5x20	V-CHC-052	06-04213	---
Screw CHC M6x35	V-CHC-030	06-04214	---
Wheel assy screw -Individual	V-CHC-020	06-04215	---
Wheel assy screw -Individual	V-CHC-015	06-04216	---
Clip screw - Individual	V-CHC-010	06-04217	---
Wheel assy screw - Individual	V-CHC-009	06-04218	---
Wheel assy screw - Individual	V-CHC-008	06-04219	---
Clip screw - Individual	V-CHC-005	06-04220	---
Wheel assy screw - Individual	V-CHC-004	06-04221	---
Wheel assy screw - Individual	V-CHC-003	06-04222	---

BERINGER SENSAIR WHEEL TIRE PRESSURE MONITORING SYSTEM

Description	Beringer P/N	Part Number	Price
5” - Experimental Use Only	TP-005	06-04226	---
6” - Experimental Use Only	TP-006	06-04224	---
5” - Certified - For use with STC	TP-005 Certified	06-04225	---
6” - Certified - For use with STC	TP-006 Certified	06-04223	---

BERINGER BRAKE SERVICE PARTS

Description	Beringer P/N	Part Number	Price
Back stop - Individual	BTR-001(C)	06-04280	---
Back stop - Individual	BTR-002(C)	06-04279	---
Brake disc - (Package as Pair)	DSC-006(B)	06-01119	---
Brake disc - (Package as Pair)	DSC-008(A)	06-01649	---
Brake disc - (Package as Pair)	DSC-008.2(A)	06-01651	---
Brake disc - (Package as Pair)	DSC-009.3(A)	06-01653	---
Brake disc - (Package as Pair)	DSC-009.4(A)	06-04268	---
Brake disc - (Package as Pair)	DSC-009.5(A)	06-04267	---
Brake disc - (Package as Pair)	DSC-011(B)	06-04266	---
Brake disc - (Package as Pair)	DSC-012(A)	06-04265	---
Brake disc - (Package as Pair)	DSC-014(A)	06-04264	---
Brake disc - (Package as Pair)	DSC-015(A)	06-04263	---
Fixation Pin	PIO-006(A)	06-04241	---
Fixation Pin	PIO-007(A)	06-04240	---
Brake Pad - (Package as Pair)	PQT-003/004(A)	06-01103	---
Brake disc - (Package as Pair)	PQT-008(B)	06-04237	---
Brake disc - (Package as Pair)	PQT-009(A)	06-03027	---
Brake disc - (Package as Pair)	PQT-010(A)	06-01991	---
Brake disc - (Package as Pair)	PQT-012(C)	06-04236	---
Brake disc - (Package as Pair)	PQT-013(C)	06-04235	---
Brake disc - (Package as Pair)	PQT-014(C)	06-04234	---
Piston - Individual	PSE-002(A)	06-04233	---
Piston - Individual	PSE-003(A)	06-04232	---
Piston - Individual	PSE-004(A)	06-04231	---
Piston - Individual	PSE-005(A)	06-04230	---
Piston seal - Individual	JNT-002N(A)	06-04248	---
Piston seal - Individual	JNT-003E(A)	06-04247	---
Piston seal - Individual	JNT-004N(A)	06-04246	---
Piston seal - Individual	JNT-006E(A)	06-04245	---
Piston seal - Individual	JNT-006N(A)	06-04244	---
SCREW M8X30 TORX HEAD	VIS-029(A)	06-04205	---
Screw	VIS-022(A)	06-04206	---
Screw - Individual	VIS-015(A)	06-04207	---
Screw - Individual	VIS-010(A)	06-04208	---
Screw	VIS-008(A)	06-04209	---
Brake assy screw - Individual	VIS-006(A)	06-04210	---
Brake assy screw - Individual	VIS-003(A)	06-04211	---
Screw CHC M8x41	VIS-002(B)	06-04212	---

BERINGER TOOLS FOR TIRES & BRAKES

Description	Beringer P/N	Part Number	Price
Tire mounting tool for 6 Inch SL-HL-LE Wheels	OT-001.1	06-04289	---
Tire mounting tool for 5 Inch Wheel	OT-002	06-01109	---
Tire mounting tool for 8 Inch Wheel	OT-012	06-04290	---
Brake Bleeding Kit	ONC01	06-04291	---
Extended socket for RV14 Axle Nut	OPA08	06-04292	---

LG

CLEVELAND BRAKE DISCS

CLEVELAND BRAKE DISCS

If your aircraft is flown a lot (more than 200 hours a year) and is not exposed to exceptionally corrosive atmospheres, Cleveland Standard discs are the ideal replacement when normal brake wear requires it.

Cleveland Chrome brake discs are the answer for owners of aircraft that are exposed to the elements (moisture, salt, industrial chemicals) and are not flown frequently enough to rub off corrosion. If you fly less than 200 hours a year, your aircraft spends more than 8,500 idle hours exposed to the elements. Standard and Chrome Cleveland brake discs are fully FAA approved as replacements on virtually all popular single engine aircraft.

Aircraft Model	Main Wheel Ass'y	Standard Disc	Price Each	Chrome Disc	Price Each
Homebuilts	500x5 40-78B	164-17	---	164-117	---
Homebuilts	600x6 40-59A	164-75	---	164-175	---
General (High Energy)	40-151A	164-08500	---	---	---
General (Increased Energy)	40-230	164-09900	---	---	---
Aerotek (Pitts) S-1 Series, S-2A	500x5 40-78B	164-17	---	164-117	---
Bonanza F33A, F33C, A36, A36TC, B36TC	600x6 40-83A, 40-83B	164-02505	---	164-125B	---
Bellanca Citabria,Decathlon	600x6 40-28D	164-5	---	164-105	---
Bellanca Champ	600x6 40-78B	164-17	---	164-117	---
Viking 300A	600x6 40-75E	164-15A	---	164-115A	---
Cessna 150C	600x6 40-57	164-5	---	164-105	---
Cessna 150D,E	500x5 40-78	164-17	---	164-117	---
Cessna 150F,G,H,J	600x6 40-97A	164-26A	---	164-126A	---
Cessna 150K	600x6 40-97A	164-26A	---	164-126A	---
Cessna A150K, F150, FA150	600x6 40-113	164-40	---	164-140	---
Cessna 152, F152, FA152	600x6 40-113	164-40	---	164-140	---
Cessna 172	600x6 40-97A	164-26A	---	164-126A	---
	600x6 40-113	164-40	---	164-140	---
Cessna 177,177RG, F177RG	600x6 40-113	164-40	---	164-140	---
Cessna 177A, B	600x6 40-97A	164-26A	---	164-126A	---
Cessna 180	600x6 40-75B	164-15A	---	164-115A	---
	600x6 40-75D	164-63	---	164-163	---
	600x6 40-66	164-7	---	164-107	---
Cessna 182H, J, K, L, M, N	600x6 40-97A	164-26A	---	164-126A	---
Cessna 182N	600x6 40-113	164-40	---	164-140	---
Cessna 182J, K, L, N,	600x6 40-97A	164-26A	---	164-126A	---
Cessna 185, A, B	600x6 40-32	164-7	---	164-107	---
	600x6 40-66	164-7	---	164-107	---
Cessna 185C, D, E	600x6 40-75B	164-15A	---	164-115A	---
Cessna A185E 1966 & Up	600x6 40-75B	164-15A	---	164-115A	---
1969 & Up	600x6 40-75D	164-36	---	164-136	---
1967, 1968	600x6 40-66	164-7	---	164-107	---
Cessna 188, A188	600x6 40-75B	164-15A	---	164-115A	---
Cessna 205, 205A	600x6 40-67	164-7	---	164-107	---
	600x6 40-75B	164-15A	---	164-115A	---
Cessna 206, U206A, TU206A & Turbo	600x6 40-75	164-15A	---	164-115A	---
Cessna U206D, D & Turbo	600x6 40-75D	164-36	---	164-136	---
Cessna P206, A, TP206A	600x6 40-75	164-15A	---	164-115A	---
Cessna P206, A ,B, C, D, & Turbo	600x6 40-75B	164-15A	---	164-115A	---
Cessna P206D, E, Turbo & Super Skylane	600x6 40-75D	164-36	---	164-136	---
Cessna 207, T207	660x6 40-75B	164-15A	---	164-115A	---
	600x6 40-75D	164-36	---	164-136	---

Aircraft Model	Main Wheel Ass'y	Standard Disc	Price Each	Chrome Disc	Price Each
Cessna Caravan 1, & 208B	40-179	164-22201	---	---	---
Cessna 210C	600x6 40-21	164-9	---	164-109	---
Cessna 210 series P210, T210	600x6 40-75B	164-15A	---	164-115A	---
Cessna 210N, P210N	600x6 40-75B	164-15A	---	164-115A	---
Cessna 336 Series	600x6 40-67	164-7	---	164-107	---
1963-1965	600x6 40-75B	164-15A	---	164-115A	---
Gulfstream AA-1, A, B, AA-5,	600x6 40-86A	164-20	---	164-120	---
Gulfstream AA-1, A, B, AA-5, AA-5B, TR2	600x6 40-88C	164-20	---	164-120	---
Helio H-295, 395,	600x6 40-75E	164-15A	---	164-115A	---
391	600x6 40-75D	164-36	---	164-136	---
Maule M4, M5 Series	600x6 40-97D	164-26A	---	164-126A	---
Mooney M20A, M20B	600x6 40-24	164-9	---	164-109	---
Mooney 20C	600x6 40-86	164-20	---	164-120	---
Mooney 20D, E	600x6 40-24	164-9	---	164-109	---
Mooney 20D, F,G,J,K	600x6 40-86	164-20	---	164-120	---
Piper PA22-108	600x6 40-28	164-5	---	164-105	---
Piper PA24-180,250	600x6 40-58	164-9	---	164-109	---
Piper PA24-260	600x6 40-84	164-19	---	164-119	---
Piper PA-24, 30, 32, 34, 39	600x6 40-90	164-22A	---	---	---
Piper PA25	600x6 40-84A	164-33	---	164-133	---
Piper PA28 Series Cherokee/ Warrior	600x6 40-28	164-20	---	164-120	---
Piper PA32 Series	600x6 40-120C (1)	164-21600	---	---	---
Piper PA32 Series	600x6 40-90A	164-23	---	---	---
Piper P34 Series	600x6 40-90A	164-23	---	---	---
Piper PA38-112	500x5 40-78B	164-17	---	164-117	---
Piper PA44	600x6 40-90A	164-23	---	---	---
(1) Heavy duty	600x6 40-120(1)	164-21600	---	---	---
Archer	600x6 40-86	164-20	---	164-120	---
Pathfinder	600x6 40-86B	164-20	---	164-120	---
Cherokee	600x6 40-58	164-9	---	164-109	---
Cherokee/Arrow	600x6 40-84	164-19	---	164-119	---
Dakota	600x6 40-86	164-20	---	164-120	---
	600x6 40-86B	164-20	---	164-120	---
Rockwell Int. 112, 112A, B	600x6 40-113A	164-43	---	164-143	---
112B, TC, TCA114	600x6 40-75H	164-15A	---	164-115A	---
Schweizer SGS1-34	500x5 40-78B	164-17	---	164-117	---
Socata TBM 700/850	8" Int. Brake	159-02700	---	---	---
Spencer Amph. S12E	600x6 40-74	164-7	---	164-107	---
Taylorcraft F-19	600x6 40-86	164-20	---	164-120	---
Varga 2150A	600x6 40-97E	164-26A	---	---	---
Waco	600x6 40-97A	164-26A	---	164-126A	---
Wing Derringer	600x6 40-84	164-19	---	164-119	---

REPLACEMENT DISCS & LININGS FOR CESSNA/MCCAULEY WHEELS & BRAKES

Cessna Aircraft Model	Cessna/McCauley Wheel Assembly	Cessna/ McCauley Brake Disc Assy.	Cleveland Brake Disc Assy.	Price
150, 150A	C163004-0104 C163003-0101 or C163001-0102 C163002-0101	B-30440	164-09200	---
		---------	---------	---------
		B-30195	164-09300	---
		B-30007	164-09400	---------
152, A152, F152, FA152	C163005-0101 or C163006-0101	---------	---------	---------
		C30615-1	164-08800	---
172, F172, R172, FR172	C163004-0104 C163003-0101 or C163003-0102 or C163004-0104 C163002-0101	B-30440	164-09200	---
		---------	---------	---------
		B-30195	164-09300	---
		---------	---------	---------
		B-30007	164-09400	---------
172, F172, 172RG	C163006-0101	C30615-1	164-08800	---
177	C163005-0101	C30615-1	164-08800	---
177RG	C163005-0101 or C163006-0101	---------	---------	---------
		C30615-1	164-08800	---

Cessna Aircraft Model	Cessna/McCauley Wheel Assembly	Cessna/ McCauley Brake Disc Assy.	Cleveland Brake Disc Assy.	Price
180, 185	C163004-0103	---------	---------	---------
	C163004-0101	C30388	164-09700	---
	C163006-0103 Std.	C30615-3	164-9	---
	C163006-0102 HD	C30615-2	164-08900	---
182, F182	C163006-0101	---------	---------	---------
	or C163006-0103	C30615-1	164-08800	---
R182, FR182, TR 182	C163006-0103	C30615-3	164-9	---
U206-TU206	C163004-0102	C30398	164-09600	---
	C163004-0101	C30388	164-09700	---
	C163006-0103 Std.	C30615-3	164-9	---
	C163006-0102 HD	C30615-2	164-08900	---
210, T210, P210	C163006-0103	C30398	164-09600	---
	C163006-0103	C30615-3	164-9	---

CLEVELAND BRAKE DISCS

Model No.	Part No.	Price	Model No.	Part No.	Price
159-01200	06-02563	---	159-02700	06-02796	---
159-03500	05-11628	---	159-02900	05-14401	---
159-07100	159-07100	---	164-02201	164-22A	---
164-20900	06-01843	---	164-22201	06-01146	---
164-22400	06-01850	---	164-05806	06-01819	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RAPCO BRAKE DISCS

RAPCO BRAKE DISCS

RAPCO FAA-PMA approved replacement brake disc for Cleveland and McCauley brake assemblies offer premium quality in a direct replacement disc. All discs are one piece forged for optimum strength and resistance to cracking, then heat treated to a specific hardness for a long service life. They are precision CNC machined, laser etched with permanent identification markings and then nickel plated for corrosion resistance. A final machining on the wear surface assures trueness and offers an optimum absorption of kinetic energy for performance braking. When installing new brake discs always use new linings. **For application guide, cross reference or product guide photos, please visit our web site at www.aircraftspruce.com.**

RAPCO P/N	OEM P/N	Superseded	Our P/N	Price Ea.
Cleveland Style Brake Disc				
RA164-00206	164-00206	164-2F	06-00610	---
RA164-00300	164-00300	164-3	06-01682	---
RA164-00400	164-00400	164-4	06-00118	---
RA164-00500	164-00500	164-5	06-00612	---
RA164-00700	164-00700	164-7	06-00613	---
RA164-00806	164-00806	164-8F	06-01520	---
RA164-00900	164-00900	164-9	06-00614	---
RA164-01000	164-01000	164-10	06-00615	---
RA164-01300	164-01300	164-13	06-01683	---
RA164-01406	164-01406	164-14F	06-01685	---
RA164-01501	164-01501	164-15A	06-00616	---
RA164-01506	164-01506	164-15F	06-01686	---
RA164-01600	164-01600	164-16	06-00617	---
RA164-01700	164-01700	164-17	06-00618	---
RA164-01900	164-01900	164-19	06-00619	---
RA164-02000	164-02000	164-20	06-00620	---
RA164-02201	164-02201	164-22A	06-00621	---
RA164-02300	164-02300	164-23	10-03107	---
RA164-02504	164-02504	164-25A	06-00622	---
RA164-02505	164-02505	164-25C	10-03106	---
RA164-02601	164-02601	164-26A	06-00623	---
RA164-02706	164-02706	164-27F	06-01496	---
RA164-02707	164-02707	164-27G	06-01687	---
RA164-02800	164-02800	164-28	06-00624	---
RA164-03006	164-03006	164-30F	06-00414	---
RA164-03106	164-03106	164-31F	06-01129	---
RA164-03206	164-03206	164-32F	06-00625	---
RA164-03300	164-03300	164-33	06-00626	---
RA164-03506	164-03506	164-35F	06-01688	---
RA164-03601	164-03601	164-36A	06-00627	---
RA164-03906	164-03906	164-39F	06-01689	---
RA164-04000	164-04000	164-40	06-00628	---
RA164-04300	164-04300	164-43	06-00629	---
RA164-04406	164-04406	164-44F	06-01691	---
RA164-04800	164-04800	164-48	06-01692	---
RA164-05006	164-05006	164-50F	06-01693	---
RA164-05500	164-05500	164-55	06-01694	---
RA164-05700	164-05700	164-57	06-00630	---
RA164-05806	164-05806	164-58F	06-01128	---
RA164-06106	164-06106	164-61F	06-01695	---
RA164-06306	164-06306	164-63F	06-01696	---
RA164-06406	164-06406	164-64F	06-01697	---
RA164-06506	164-06506	164-65F	06-01698	---
RA164-06700	164-06700	164-67	06-01699	---
RA164-06900	164-06900	164-69	06-00631	---
RA164-07200	164-07200	164-72	06-01701	---
RA164-07400	164-07400	164-74	06-01703	---
RA164-07500	164-07500	164-75	06-00632	---
RA164-07700	164-07700	164-77	06-01704	---
RA164-07800	164-07800	164-78	06-00633	---
RA164-07906	164-07906	164-79F	06-01705	---
RA164-08100	164-08100	164-81	06-01706	---
RA164-08200	164-08200	164-82	06-01707	---
RA164-08300	164-08300	164-83	06-01708	---
RA164-08406	164-08406	164-84F	06-01709	---
RA164-08500	164-08500	164-85	06-01711	---
RA164-09100	164-09100	164-91	06-01712	---
RA164-09900	164-09900	164-99	06-01311	---
RA164-20206	164-20206	164-202F	06-01713	---
RA164-20306	164-20306	164-203F	06-01714	---
RA164-20500	164-20500	164-205	06-01715	---
RA164-20600	164-20600	164-206	06-01716	---
RA164-20700	164-20700	164-207	06-01717	---
RA164-20806	164-20806	164-208F	06-01718	---
RA164-20900	164-20900	164-209	06-01719	---
RA164-21000	164-21000	164-210	06-01720	---
RA164-21100	164-21100	164-211	06-01721	---
RA164-21200	164-21200	164-212	06-01722	---
RA164-21600	164-21600	164-216	06-02798	---
RA164-21900	164-21900	164-219	06-01723	---
RA164-22000	164-22000	164-220	06-01724	---
RA164-22201	164-22201	164-222A	06-01725	---
RA164-22202	164-22202	164-222B	06-01566	---
RA164-22400	164-22400	164-224	06-01726	---
RA164-22900	164-22900	164-229	06-01727	---
RA164-23000	164-23000	164-230	06-01728	---
RA164-23001	164-23001	---	06-01852	---
RA164-23002	164-23002	---	06-01853	---
RA164-24200	164-24200	---	06-01595	---
RA164-24400	164-24400	---	06-01594	---
RAPCO P/N	**OEM P/N**	**Superseded**	**Our P/N**	**Price Ea.**
McCauley Style Brake Disc				
RA164-30195	164-30195	B-30195	06-00579	---
RA164-30388	164-30388	C-30388	06-00584	---
RA164-30398	164-30398	C-30398	06-00588	---
RA164-30414	164-30414	C-30414	06-01732	---
RA164-30440	164-30440	B-30440	06-00578	---
RA164-30615-1	164-30615-1	C30615-1	06-00580	---
RA164-30615-2	164-30615-2	C30615-2	06-00586	---
RA164-30615-3	164-30615-3	C30615-3	06-00585	---

APS BRAKE DISCS

APS brake discs are state-of-the-art CNC machined from a one-piece forging.
When the metal is forged it creates a directional grain flow that follows the contour of the disc. This allows for a much stronger disc that has a reduced risk of the cracking and catastrophic failures associated with the inferior welded design.
The APS "Black Steel" advantage is a proprietary heat treatment with a two-fold purpose. The heat treatment strengthens the steel by bonding the carbon, oxygen and nitrogen in the top layer of the metal. This is not a coating that can wear off. The steel itself is transformed. The heat treatment gives the steel its aesthetically pleasing black appearance and provides a surface with a high resistance to the corrosion and oxidation associated with the extreme thermal cycling experienced in aircraft braking systems. This makes it an excellent choice for agricultural aircraft that work in a harsh, chemical environment, as well as anyone who leaves their plane outside for most of its life.

SEE OUR WEBSITE FOR AIRCRAFT APPLICATION CHART!

APS Part Number	OEM Part Number	Description	Part Number	Price
APS164-00300	164-00300	APS164-00300 Blacksteel Brake Disc	07-20106	---
APS164-00400	164-00400	APS164-00400 Blacksteel Brake Disc	07-20107	---
APS164-00500	164-00500	APS164-00500 Blacksteel Brake Disc	07-20108	---
APS164-00700	164-00700	APS164-00700 Blacksteel Brake Disc	07-20109	---
APS164-00806	164-00806	APS164-00806 Blacksteel Brake Disc	07-20110	---
APS164-00900	164-00900	APS164-00900 Blacksteel Brake Disc	07-20111	---
APS164-01000	164-01000	APS164-01000 Blacksteel Brake Disc	07-20112	---
APS164-01501	164-01501	APS164-01501 Blacksteel Brake Disc	07-20115	---
APS164-01600	164-01600	APS164-01600 Blacksteel Brake Disc	07-20117	---
APS164-01700	164-01700	APS164-01700 Blacksteel Brake Disc	07-20118	---
APS164-01900	164-01900	APS164-01900 Blacksteel Brake Disc	07-20119	---
APS164-02000	164-02000	APS164-02000 Blacksteel Brake Disc	07-20120	---
APS164-02201	164-02201	APS164-02201 Blacksteel Brake Disc	07-20121	---
APS164-02300	164-02300	APS164-02300 Blacksteel Brake Disc	07-20122	---
APS164-02504	164-02504	APS164-02504 Blacksteel Brake Disc	07-20123	---
APS164-02505	164-02505	APS164-02505 Blacksteel Brake Disc	07-20124	---
APS164-02601	164-02601	APS164-02601 Blacksteel Brake Disc	07-20125	---
APS164-02706	164-02706	APS164-02706 Blacksteel Brake Disc	07-20126	---
APS164-03006	164-03006	APS164-03006 Blacksteel Brake Disc	07-20129	---
APS164-03206	164-03206	APS164-03206 Blacksteel Brake Disc	07-20131	---
APS164-03300	164-03300	APS164-03300 Blacksteel Brake Disc	07-20132	---
APS164-03506	164-03506	APS164-03506 Blacksteel Brake Disc	07-20133	---
APS164-03601	164-03601	APS164-03601 Blacksteel Brake Disc	07-20134	---
APS164-03906	164-03906	APS164-03906 Blacksteel Brake Disc	07-20135	---
APS164-04000	164-04000	APS164-04000 Blacksteel Brake Disc	07-20136	---
APS164-04700	164-04700	APS164-04700 Blacksteel Brake Disc	07-20138	---
APS164-05006	164-05006	APS164-05006 Blacksteel Brake Disc	07-20139	---
APS164-05500	164-05500	APS164-05500 Blacksteel Brake Disc	07-20140	---
APS164-05700	164-05700	APS164-05700 Blacksteel Brake Disc	07-20142	---
APS164-05806	164-05806	APS164-05806 Blacksteel Brake Disc	07-20143	---
APS164-06106	164-06106	APS164-06106 Blacksteel Brake Disc	07-20144	---
APS164-06700	164-06700	APS164-06700 Blacksteel Brake Disc	07-20147	---
APS164-07200	164-07200	APS164-07200 Blacksteel Brake Disc	07-20150	---
APS164-07400	164-07400	APS164-07400 Blacksteel Brake Disc	07-20151	---
APS164-07700	164-07700	APS164-07700 Blacksteel Brake Disc	07-20153	---
APS164-07800	164-07800	APS164-07800 Blacksteel Brake Disc	07-20154	---
APS164-07906	164-07906	APS164-07906 Blacksteel Brake Disc	07-20155	---
APS164-08300	164-08300	APS164-08300 Blacksteel Brake Disc	07-20156	---
APS164-08500	164-08500	APS164-08500 Blacksteel Brake Disc	07-20158	---
APS164-20306	164-20306	APS164-20306 Blacksteel Brake Disc	07-20160	---
APS164-20700	164-20700	APS164-20700 Blacksteel Brake Disc	07-20163	---
APS164-20900	164-20900	APS164-20900 Blacksteel Brake Disc	07-20164	---
APS164-21000	164-21000	APS164-21000 Blacksteel Brake Disc	07-20165	---
APS164-21600	164-21600	APS164-21600 Blacksteel Brake Disc	07-20167	---
APS164-22000	164-22000	APS164-22000 Blacksteel Brake Disc	07-20169	---
APS164-22201	164-22201	APS164-22201 Blacksteel Brake Disc	07-20170	---
APS164-22202	164-22202	APS164-22202 Blacksteel Brake Disc	07-20171	---
APS164-22900	164-22900	APS164-22900 Blacksteel Brake Disc	07-20173	---
APS164-23001	164-23001	APS164-23001 Blacksteel Brake Disc	07-20174	---
APS164-24200	164-24200	APS164-24200 Blacksteel Brake Disc	07-20175	---
APS164-24400	164-24400	APS164-24400 Blacksteel Brake Disc	07-20176	---
APS164-24500	164-24500	APS164-24500 Blacksteel Brake Disc	07-20177	---
APS164-30007	164-30007	APS164-30007 Blacksteel Brake Disc	07-20178	---
APS164-30195	164-30195	APS164-30195 Blacksteel Brake Disc	07-20179	---
APS164-30398	164-30398	APS164-30398 Blacksteel Brake Disc	07-20181	---
APS164-30440	164-30440	APS164-30440 Blacksteel Brake Disc	07-20183	---
APS164-30615-2	164-30615-2	APS164-30615-2 Blacksteel Brake Disc	07-20184	---
APS164-30615-3	164-30615-3	APS164-30615-3 Blacksteel Brake Disc	07-20185	---
APS164-30615-4	164-30615-4	APS164-30615-4 Blacksteel Brake Disc	07-20186	---
APS164-23002	164-23002	APS164-23002 Blacksteel Brake Disc	07-20697	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CLEVELAND BRAKE LININGS

CLEVELAND STANDARD ORGANIC BRAKE LININGS

66-02
(66-106)

66-141

66-4
(66-111)

(66-30)

Order by NEW Cleveland part number.
All Linings Include Rivets

Aircraft Make & Model	Old Cleveland P/N	# Req.	New Cleveland P/N	Price
AEROTEK - Pitts S-1, S-2A	66-2	2	66-106	---
BEECH - Musketeer	66-55	2	66-105	---
Sierra Sport Sundowner B-19; C-23, 24R	66-55	2	66-105	---
Debonair CD-1 thru CD-387	66-4	2	66-111	---
Debonair B-33	66-2	2	66-106	---
Skipper	66-71	2	66-112	---
BELLANCA - Citabria, Champ	66-2	2	66-106	---
Scout	66-3	1	66-106	---
Decathalon, Scout 8GCBC	66-2	2	66-106	---
Viking, Aries 250	66-55	2	66-105	---
CESSNA - 150A, B, C, D, E	66-2	2	66-106	---
	66-56	2	66-106	---
150F, G, H, J, K, 152, F-152, FA-152	66-55	2	66-105	---
All Cessnas using Cessna/McCauley Brakes	B-30026	2	66-109	---
Skyhawk 172, Cardinal 177 All	66-55	2	66-105	---
Skywagon 180	66-55	4	66-105	---
Skylane 182 H, J, K, L, M, N	66-55	2	66-105	---
185A, B	66-2	2	66-106	---
185C, D, E	66-55	2	66-105	---
185 with crosswind gear	66-2	2	66-106	---
AGWagon	66-55	4	66-105	---
Stationair-6 205, 205A	66-2	2	66-106	---
Stationair-6 205, 205A (s/n 205-0481 & up)	66-55	4	66-105	---
206, U206A, D, E & Turbo models	66-55	4	66-105	---
207, T207	66-55	4	66-105	---
210C	66-4	2	66-111	---
210, P210, T210, 210N, P210N	66-55	4	66-105	---
303, T303	66-44	4	66-44	---
305A, B, C, D, E, F	66-55	4	66-105	---
310, 335	66-33	6	66-33	---
Skymaster 336	66-2	2	66-106	---
337, T337, 337B,C,D,E, T337B,C,D,E	66-55	4	66-105	---
All Cessnas using Cessna/McCauley Brakes	B-30026	2		
CIRRUS				
SR-20	066-14100	4	66-141	---
GRUMMAN				
AA-1,A,B,AA-5,AA-5A, AA-5B,Tiger,TR-2	66-55	2	66-105	---
AG-CAT	66-3	1	66-106	---
	66-56	2	66-106	---
G-154	66-2	2	66-106	---
G21, G21A	66-113	2	66-113	---
Widgeon G44, G44A, Scan Type 30	66-11700	2	66-11700	---

Aircraft Make & Model	Old Cleveland P/N	# Req.	New Cleveland P/N	Price
MAULE - Jetasen/Rocket, Lunar/ Rocket	66-55	2	66-105	---
MOONEY - Most M20, A, B, D, E	66-4	2	66-111	---
PIPER - Colt PA22-108	66-2	2	66-106	---
	66-56	2	66-106	---
Apache PA-23-150, 160	66-2	2	66-106	---
	66-56	2	66-106	---
Apache/Aztec PA-23-235, 250 Series	66-2	4	66-106	---
	66-3	4	66-106	---
Comanche PA-24-180, 250, 260	66-2	2	66-106	---
Pawnee C PA-25	66-2	2	66-106	---
Cherokee/Cruiser PA-28-140	66-2	2	66-106	---
PA-28-140 s/n 28-20521 & up	66-55	2	66-105	---
Cherokee PA-28-150	66-2	2	66-106	---
Cherokee PA-28-160 s/n 28-1761 & up	66-55	2	66-105	---
Cherokee Warrier PA-28-151	66-55	2	66-105	---
Cherokee PA-28-160	66-2	2	66-106	---
Cherokee/Warrier II PA-28-161	66-55	2	66-105	---
Cherokee/Archer PA-28-180 to 28-1760	66-2	2	66-106	---
Cherokee/Archer PA-28-180 28-1761 & up	66-55	2	66-105	---
Cherokee/Pathfinder PA-28-181, PA-28-236	66-55	2	66-105	---
PA-28R-180, PA-28-200	66-2	2	66-106	---
PA-28R-180 s/n 28R-7130006 & up	66-55	2	66-105	---
PA-28-200 s/n 28R-7135110 & up	66-55	2	66-105	---
PA-28R-201T, 201, PA-28RT-201, 201T	66-55	2	66-105	---
Early PA-28-235	66-56	2	66-105	---
Early PA-28R-180, 200	66-56	2	66-105	---
Twin Comanche PA-30 Serial # 30-845 and on	66-19	2	66-62	---
Twin Comanche PA-30 Serial # 30-2 thru 30-845	66-19	2	66-65	---
Navajo B, PA31-300, 310, Turbo Navajo	66-33	6	66-33	---
Chieftain, PA-31-350	66-33	6	66-33	---
Cherokee/Six-260 PA-32-260	66-55	4	66-105	---
PA-32-300 s/n 32-40000 thru 7200029	66-55	4	66-105	---
PA-32R-300, 32RT-300	66-55	4	66-105	---
PA-38-112 (6" wheel)	66-71	2	66-112	---
PA-38-112 (5" wheel)	66-56	2	66-106	---
PA-39	66-19	1	66-62	---
PA-39, PA-39-1 & up	66-3	1	66-106	---
PA-44-180	66-55	4	66-105	---
TAYLORCRAFT				
Sportsman 100	66-55	2	66-105	---

Advise aircraft make, model and serial number to assure that correct brake lining part number is furnished Extra rivets, P/N 105-2, for all models listed in table.

CLEVELAND BRAKE LINING KITS

Pack of 4 linings
66-105.....P/N 06-01309 ..... ---
66-106.....P/N 06-01310 ..... ---

CLEVELAND BRAKE LININGS

066-10000 .....P/N 06-01792 ..... ---
066-15300 .....P/N 05-13686 ..... ---
066-13100 .....P/N 06-01796-1 ..... ---

BRAKE LINING TOOLS

Designed especially to economically reline brakes, this riveting set is a handy tool for many other jobs where rivets are used to fasten leather, canvas, plastic and metal parts. Deluxe tool is screw-down type.

Deluxe Brake Lining Tool #404 (Threaded)
P/N 12-20810..... ---
Brake Lining Rivets 4-6 .....P/N 06-02300..... ---

LG

RAPCO/APS BRAKE LININGS – BRAKE PARTS

RAPCO BRAKE LININGS

RAPCO FAA-PMA approved quality replacement linings for Cleveland and McCauley* brake assemblies. Most organic linings include an exclusive built in wear indicator.

RAPCO P/N	Cleveland P/N	Our P/N	Price Ea.
Organic Linings			
RA066-10500	066-10500	06-16955	---
RA066-10600	066-10600	06-16956	---
RA066-10800	066-10800	06-16959	---
RA066-11000	066-11000	06-01734	---
RA066-11100	066-11100	06-16958	---
RA066-11200	066-11200	RA66-112	---
RA066-13100	066-13100	06-02833	---
RA066-14100	066-14100	RA66-141	---
RA066-14800	066-14800	06-01738	---
RA066-30026	066-30026 *	06-16987	---
Metallic Linings			
RA066-02200	066-02200	06-16922	---
RA066-03300	066-03300	06-16933	---
RA066-04400	066-04400	06-16944	---
RA066-06200	066-06200	06-16962	---
RA066-06400	066-06400	06-01563	---
RA066-06500	066-06500	06-16965	---
RA066-06600	0066-06600	06-16966	---
RA066-06700	066-06700	06-01562	---
RA066-06800	066-06800	06-16968	---
RA066-07300	066-07300	06-01558	---
RA066-09000	066-09000	06-01556	---
RA066-09100	066-09100	06-01559	---
RA066-09200	066-09200	06-01560	---
RA066-09700	066-09700	06-01561	---
RA066-10000	066-10000	06-16955	---
RA066-15300	066-15300	06-01557	---

BRAKE LINING KITS

RAPCO FAA-PMA approved for Cleveland and McCauley* brake assemblies. The kits come with linings and rivets. The -4K, -8K, -12K refers to the number of linings in a kit.

RAPCO P/N	Description	Our P/N	Price/Kit
RA066-10500-4K	Lining Kit	06-00643	---
RA066-10500-8K	Lining Kit	06-00650	---
RA066-10600-4K	Lining Kit	06-00651	---
RA066-10600-8K	Lining Kit	06-00652	---
RA066-10800-8K	Lining Kit	06-00681	---
RA066-10800-12K	Lining Kit	06-01739	---
RA066-11100-4K	Lining Kit	06-00683	---
RA066-11200-4K	Lining Kit	06-01740	---
RA066-30026-4K	Lining Kit	06-00653	---
RA066-30026-8K	Lining Kit *	06-00682	---

BRAKE PUCK - MAIN ROTOR BRAKE

FAA-PMA approved quality replacement main rotor brake puck for Bell 206A, 206B, 206L, 206L-1, 206L-3, 206L-4. RAPCO: RA5009212 • OEM: 5009212

P/N 06-01306 ..... ---

RAPCO RA154-03000 MOLDED GREASE SEAL

P/N 06-03081 ..... ---

RAPCO BRAKE RIVET TOOL KIT

The RAPCO rivet tool kit offers quality tooling for professional results with brass or steel rivets. The kit comes with punch to remove old rivets and screw style set and anvil to properly install new rivets.

RAPCO P/N	Description	Our P/N	Price
RA825	Rivet Tool Kit	10-02065	---
RA825AP	Anvil & Punch	10-02066	---

RAPCO BRAKE RIVETS

FAA-PMA approved tubular rivets for the installation of aircraft brake linings. Use with RA825 Rivet Tool Kit.

RAPCO P/N	Head, Shank	Our P/N	Price Ea.
RA105-00200	5/16, 5/32	06-00351	---
RA105-06700	5/16, 3/16	06-02834	---
RA105-02401	3/16	06-04759	---
RA105-08701	3/16	06-04760	---

BRAKE MOUNTING PINS

FAA-PMA approved quality stainless steel mounting pins for metallic brake linings.

RAPCO P/N	Head, Shank	Our P/N	Price Ea.
RA177-00300	5/16, 5/32	06-01215	---
RA177-00400	5/16, 3/16	06-01499	---
RA177-01600	3/8, 3/16	06-01501	---

APS PILATUS PC-12 BRAKE OVERHAUL KIT

The Pilatus PC-12 Overhauled Kit is cost-effective replacement brake parts for the PC-12 with Cleveland Brakes. **Features**: • All parts are PMA'D • Longer Wear Life • Parts offered individually or as a brake overhaul kit

P/N 06-03466 ..... ---

SEE OUR WEBSITE FOR PARTS LIST!

RAPCO PILATUS PC-12 BRAKE OVERHAUL KIT

RAPCO Inc. Brake Overhaul Kits contain FAA-PMA and EASA approved quality replacement parts for Cleveland multi-rotor brake assemblies. The parts have undergone rigorous dynamometer and flight testing by experienced designers, engineers and test pilots. Each kit offers quality and performance at a very competitive price.....P/N 06-03546 ..... ---

RAPCO PILATUS PC-12 BRAKE PARTS

Description	Part No.	Price
RAPCO Pressure Plate RA063-08400	06-04761	---
RAPCO Pressure Plate Assy RA073-10100	06-04762	---
RAPCO Washer Seal RA095-01100	06-04763	---
RAPCO O-Ring RA101-00700	06-04764	---
RAPCO O-Ring RA101-02500	06-04765	---
RAPCO Rivet RA105-02401	06-04759	---
RAPCO Rivet RA105-08701	06-04760	---
RAPCO Wiper RA107-03700	06-04761	---
RAPCO Wear Pad RA109-03000	06-04758	---
RAPCO Rotating Disc RA15-07400	06-04768	---
RAPCO Stationary Disc RA232-03500	06-04769	---
RAPCO Stationary Disc RA242-01800	06-04770	---

APS CESSNA CARAVAN BRAKE KIT

APS Caravan Kit. The APS "Black Steel" advantage.APS Brake Pad lining pin APS177-00300. Compatible with the following metallic linings: APS66-06200, APS66-06500, APS66-02200, APS66-04400, APS66-09700, APS66-01500, APS66-01900 and APS66-03300

Kit Includes: • APS164-22201 Blacksteel Brake Disc • APS177-00300 APS (M) Brake Lining Pin • APS66-15300 APS Brake Lining (M)

P/N 07-24462 ..... ---

GOODYEAR BRAKE PARTS

Most replacement parts are available for aircraft still equipped with Goodyear wheels and brakes. We provide prompt shipment on replacement parts such as brake linings, brake discs, clips, etc. Request quotation on any unlisted Goodyear part numbers.

Brake 5.00 x 5, Cessna 150, Assy. No. 9532302

Piston Lining.....P/N 9524161-1 ..... --- ea.

LG

APS BRAKE LININGS

APS BlackSteel offers semi-metallic (organic) and metallic linings for your specific application. The semi-metallic linings are impregnated with Kevlar® fibers for optimum performance.
APS metallic linings are constructed from an innovative design and from more durable materials than other brands so you get longer wear and superior stopping power for greater safety.

SEE OUR WEBSITE FOR AIRCRAFT APPLICATION CHART!

APS BRAKE LININGS

APS Part Number	OEM Part Number	Description	Part Number	Price
APS66-02200	66-02200	APS Brake Lining (M)	07-20191	---
APS66-03300	66-03300	APS Brake Lining (M)	07-20192	---
APS66-04400	66-04400	APS Brake Lining (M)	07-20193	---
APS66-06200	66-06200	APS Brake Lining (M)	07-20194	---
APS66-06400	66-06400	APS Brake Lining (M)	07-20195	---
APS66-06500	66-06500	APS Brake Lining (M)	07-20196	---
APS66-06600	66-06600	APS Brake Lining (M)	07-20197	---
APS66-06800	66-06800	APS Brake Lining (M)	07-20198	---
APS66-07300	66-07300	APS Brake Lining (M)	07-20199	---
APS66-09000	66-09000	APS Brake Lining (M)	07-20200	---
APS66-09100	66-09100	APS Brake Lining (M)	07-20201	---
APS66-09200	66-09200	APS Brake Lining (M)	07-20202	---
APS66-09700	66-09700	APS Brake Lining (M)	07-20203	---
APS66-10500	66-10500	APS Brake Lining (O)	07-20204	---
APS66-10600	66-10600	APS Brake Lining (O)	07-20205	---
APS66-10800	66-10800	APS Brake Lining (O)	07-20206	---
APS66-10900	66-10900	APS Brake Lining (O)	07-20207	---
APS66-11000	66-11000	APS Brake Lining (O)	07-20208	---
APS66-11200	66-11200	APS Brake Lining (O)	07-20210	---
APS66-13100	66-13100	APS Brake Lining (O)	07-20211	---
APS66-14100	66-14100	APS Brake Lining (O)	07-20212	---
APS66-15300	66-15300	APS Brake Lining (M)	07-20213	---
APS66-15300	66-15300	APS Brake Lining (M) - Box of 10	07-20213-10	---

APS BRAKE SHIMS

APS Part Number	Description	Part Number	Price
APS68-01100	Brake Shim	07-25594	---
APS68-01600	Brake Shim	07-25596	---
APS68-01700	Brake Shim	07-25598	---
APS68-02700	Brake Shim	07-25600	---
APS68-02800	Brake Shim	07-25599	---
APS68-02900	Brake Shim	07-25616	---
APS68-03000	Brake Shim	07-25602	---
APS68-03100	Brake Shim	07-25611	---
APS68-03300	Brake Shim	07-25601	---
APS68-03900	Brake Shim	07-25612	---
APS68-04000	Brake Shim	07-25617	---
APS68-04100	Brake Shim	07-25595	---
APS68-04600	Brake Shim	07-25597	---

APS BRAKE PAD LINING RIVETS

APS105-00200-100 ..... P/N 07-20100 ..... ---
APS105-06700-100 ..... P/N 07-20101 ..... ---
APS105-00200 ..... P/N 06-02882 ..... ---

APS BRAKE PAD LINING PINS

APS177-00300 ..... P/N 07-20187 ..... ---
APS177-00400 ..... P/N 07-20188 ..... ---
APS177-01600 ..... P/N 07-20189 ..... ---

LG

OMEGA BRAKE REPLACEMENT PARTS

CLEVELAND

OEM Part No.	Description	Part No.	Price
063-01100-OAA	Pressure Plate	06-03383	---
063-01200-OAA	Pressure Plate	06-03387	---
064-00500-OAA	Back Plate	06-03396	---
063-30025-OAA	Pressure Plate	06-03399	---
063-01300-OAA	Pressure Plate	06-03412	---
064-03200-OAA	Back Plate	06-03432	---
063-03500-OAA	Pressure Plate	06-03434	---
063-05800-OAA	Pressure Plate	06-03446	---

TBM

OEM Part No.	Description	Part No.	Price
105-00900-OAA	Rivet - (Sold In Bags of 100)	06-03371	---
109-00200-OAA	Wear Pad	06-03380	---
30-191-OSK-OAA	Standard Kit	06-03456	---

PC-12

OEM Part No.	Description	Part No.	Price
93-909-1-OAA	Wear Pad (PC-12 BFG Steel)	06-03385	---
173-80-OAA	Pin (PC-12 BFG Steel)	06-03402	---
74-973-OAA	Piston (PC-12 BFG Steel)	06-03436	---
133-1513-OAA	Stationary Disc (PC-12 BFG Steel)	06-03449	---
2-1674-1-OSK-OAA	Standard Kit (PC-12 BFG Steel)	06-03458	---
45-246-1-OAA	Swage Tube (BFG Steel)	06-03404	---

KING AIR

OEM Part No.	Description	Part No.	Price
105-00901-OAA	Rivet (King Air Cleveland) (Sold In Bags Of 100)	06-03370	---
109-00200-OAA	Wear Pad (King Air Cleveland)	06-03378	---
20-191-OAA	Return Pin (King Air BFG Standard)	06-03389	---
74-645-OAA	Piston (King Air BFG Standard)	06-03393	---
259-80-OAA	Wheel Clip (King Air BFG Standard)	06-03397	---
9534915-1-OAA	Insulator (King Air Meggit High Float And Dornier 228)	06-03417	---
43-1171OAA	Bolt (King Air BFG Standard)	06-03419	---
9536788-OAA	Piston (King Air Meggitt High Float)	06-03424	---
115-210-2-OAA	Insulator (King Air BFG Standard)	06-03431	---
60-438-OAA	Axle Spacer (King Air BFG Standard)	06-03433	---
30-162-OSK-OAA	Standard Kit (King Air Cleveland)	06-03444	---
184-443-OAA	Back Plate (King Air BFG Standard)	06-03459	---
5002289-OAA	Brake Housing (King Air Meggit High Float)	06-03462	---

PREMIER JET

OEM Part No.	Description	Part No.	Price
78-265-OAA	Rivet (Premier Jet) (Sold In Bags Of 100)	06-03372	---
S11065-13-1-OAA	Scrapper (Beechjet and Premier)	06-03377	---
93-989-OAA	Wear Pad (Premier Jet)	06-03398	---
45-255-OAA	Swage Tube (Premier Jet)	06-03427	---
5003096-7-OKS-OAA	Stationary Disc (Premier Jet)	06-03454	---
390-388103-OSK-OAA	Standard Kit (Premier Jet)	06-03461	---

EMB-500

OEM Part No.	Description	Part No.	Price
90005153-1	Swage Tube	06-03386	---
90005124-OAA	Drive Key	06-03407	---

BEECHJET

OEM Part No.	Description	Part No.	Price
GYR6B11-OAA	Rivet (Beechjet) (Sold In Bags Of 100)	06-03362	---
GYR6B6-OAA	Rivet (Beechjet) (Sold In Bags Of 100)	06-03364	---
GYR6A16-OAA	Rivet (Beechjet) (Sold In Bags Of 100)	06-03365	---
5010702-OAA	Wear Pad (Beechjet)	06-03375	---
S11065-13-1-OA	Scrapper (Beechjet and Premier)	06-03377	---
5010754-OAA	Swage Tube (Beechjet)	06-03392	---
GYN186-OAA	Nut (Beechjet)	06-03395	---
5005129-OAA	Piston (Beechjet)	06-03441	---
5011104-OAA	Wear Pin (Beechjet)	06-03443	---
400-8002-97-OSK-OAA	Standard Kit (Beechjet)	06-03457	---
5010704-1-OAA	Wheel Channel (Beech Jet)	06-03451	---

HAWKER

OEM Part No.	Description	Part No.	Price
AHO089645-OAA	Wear Pin (Hawker 800)	06-03379	---
AHO89768-OAA	Wear Pin (Hawker 1000)	06-03405	---
AHO89576-OAA	Piston (Hawker 700)	06-03409	---
AHO88411-OAA	Piston (Hawker 800)	06-03429	---

LEARJET

OEM Part No.	Description	Part No.	Price
GY18A15-OAA	Rivet (Lear Jet) (Sold In Bags Of 100)	06-03366	---
GY18B7-OAA	Rivet (Lear Jet) (Sold In Bags Of 100)	06-03367	---
9Y18B9-OAA	Rivet (Lear Jet) (Sold In Bags Of 100)	06-03368	---
GY18B15-OAA	Rivet (Lear Jet) (Sold In Bags Of 100)	06-03369	---
GYR8A23-OAA	Rivet (Lear Jet) (Sold In Bags Of 100)	06-03373	---
5006029-OAA	Wear Pad (Lear Jet)	06-03374	---
9535042-1-OAA	Insulator (Lear 25, 31, 35, 36 Series)	06-03382	---
9536273-OAA	Piston (Lear Jet)	06-03384	---
5005119-OAA	Wear Pad (Lear Jet)	06-03390	---
5006895-1-OAA	Insulator (Lear Jet 55, 55B, 55C, 60)	06-03391	---
90002647-OAA	Insulator (Lear Jet 60)	06-03411	---
5007328-OAA	Wear Pad (Lear Jet)	06-03423	---
5011739-OAA	Drive Key (Lear 60)	06-03439	---
5003096-6-OSK-OAA	Standard Kit (Lear Jet)	06-03452	---
5003096-7-OKS-OAA	Standard Kit (Lear Jet)	06-03453	---
5012943-OAA	Swage Tube (Learjet)	06-03463	---

DORNIER

OEM Part No.	Description	Part No.	Price
5008490-OAA	Swage Tube (Dornier 228)	06-03403	---
2610750-OAA	Swage Tube (Dornier 228)	06-03416	---
5006521-OAA	Piston (Dornier 228)	06-03437	---

G-150

OEM Part No.	Description	Part No.	Price
5006747-OAA	Swage Tube (G-150)	06-03381	---
5002894-1-OAA	Insulator (G-150)	06-03401	---
5006729-OAA	Piston (G-150)	06-03418	---
50067 27-OAA	Wear Pin (G-150)	06-03448	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SHIMMY DAMPERS

LORD MAINTENANCE-FREE SHIMMY DAMPERS

This high performance shimmy damper is designed to last at least 10 yrs without maintenance and contains no hydraulic fluid, so it cannot leak. Priced at about half the cost of equivalent Cessna factory dampers. 5-year pro-rated warranty. All dampers are STC'd and PMA approved.

Features: No Hydraulic Fluid: No periodic leaks or loss of damping. No servicing required. Reduced wear of nose gear linkages. Lower operating costs. **Consistent damping from -30° to 150°F:** No loss of damping at temperature extremes. Reduced wear of nose gear linkages. Lower operating costs. **No performance degradation over time and use:** Reduced wear of nose gear linkages. Lower operating costs. **Large diameter shaft:** Increased durability. Lower operating costs. **Simple Design:**High reliability. Lower operating costs. **Form, fit and function compatible:** Simplicity of use (one-for-one replacement). Compatibility with existing installation. **Note: Installation hardware not included.**

CESSNA

Part No.	Lord Part No.	Aircraft Eligibility	Price
05-00443	SE-1051-2 Approved Replacement For Cessna # 0442512-1, 0542119-1	150G, H, J, K, L, M F150G, H, J, K, L, M, A150K, L, M, FA150K, L FRA150L, FRA150M 152 (ALL) 1978 thru 1985 (no letter designators) F152 (ALL) 1978 thru 1984 (no letter designators) A152 (ALL) 1978 thru 1985 (no letter designators) FA152 (ALL) 1978 thru 1984 (no letter designators) 172, 172 A, B, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S F172D, E, F, G, H, K, L, M, N, P P172D, FR172E, F, G, H, J (REIMS ROCKET) R172K, FR172K 175, 175A, B, C 182B, C, D	---
05-00444	SE1051-3 Approved Replacement for Cessna # 0442512-2, 0542119-2	CESSNA 150, 150A, B, C, D, E, F	---
05-02610	SE-1068-5 Approved Replacement for Cessna # 0743624-1	182K, L, M, N, P, Q, R, S, T, T182T	---
05-00446	SE-1069-3 Approved Replacement for Cessna # 0743624-2	206H, U206B, U206C, U206D, U206E, U206F, U206G, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, TU206H, P206B, P206C, P206D, P206E 207, 207A, T207, T207A 210G, 210H, 210J, 210K, 210L, 210M, 210N, 210R, T210K, T210L, T210M, T210N, P210N, P210R	---
05-03382	SE-1070-7 Approved Replacement for Cessna # 2643090-3	C208, C208A, C208B	---
05-04185	SE-1090-1 Approved Replacement for Cessna # 0842410-2 for selected models, 0001-0710 for 182 Models	310, 310B, 310C, 310D, 310F, 310G, 310H, 3101, 310J, 310K, 310L, 310N, 310P, T310P, 310R, T310R, 320, 320A, 320B, 320C, 320D, 320E, 320F, 335, 340, 340A, 401, 401A, 401B, 402, 402A, 402B, 402C, 411, 411A, 414, 414A, 421, 421A, 421B, 421C, 425, 404, 406, 441, R182, TR182, FR182	---

TEXTRON AVIATION (FORMERLY BEECHCRAFT)

Part No.	Lord Part No.	Aircraft Eligibility	Price
05-03421	SE-1076-1 Replaces Beech #s: 35-825145, 35825145-2, and 35-825145-6	58P, 58TC 35-33, 35-A33, 35-C33A, E33C, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC 95-55, 95-A55, 95-B55, 95-C55, 95-C55A, G58, D55, D55A, E55, 58 35, A35, B35, C35, D35, E35, F35, G35	---

PIPER

Part No.	Lord Part No.	Aircraft Eligibility	Price
05-12930	SE-1508-2 Replaces Piper 456-015 Supercedes SE-1508-1	PA-28, PA-28-140, PA-28-140B, PA-28-140C, PA-28-140D, PA-28-140E, PA-28-140 Cruiser, PA-28-150, PA-28-150B, PA-28-150C, PA-28-151, PA-28-160, PA-28-160B, PA-28-160C, PA-28-161, PA-28-161 Warrior II, PA-28-161 Warrior III, PA-28-180, PA-28-180B, PA-28- 180C, PA-28-180D, PA-28-180E, PA-28-180F, PA-28-180G, PA-28-180 Challenger, PA-28- 180 Archer, PA-28-181, PA-28-181 Archer II, PA-28-181 Archer III, PA-28-181 Archer LX, PA-32-301 Saratoga, PA-32-301T Saratoga, PA-32-301XTC, PA-32-301FT 6X	---

PIPER SHIMMY DAMPER SERVICING KIT

Finally, a shimmy damper servicing kit. One of the most neglected components on Piper aircraft is the shimmy dampener. The shimmy damper aids nose wheel steering by reducing the shimmy of the nose wheel during takeoff and landing, and during high-speed taxiing. Even minor shimmying can lead to serious damage to the nose gear and engine mount and affect the airworthiness of the aircraft. The shimmy damper is a sealed unit that, until now, could not be serviced and required costly replacement. The STC and accompanying servicing kit allows the MAECO shimmy damper to be modified and serviced, restoring the shimmy damper to like-new condition and enabling it to perform as originally designed Important: Enter Piper Aircraft Model, Serial number, and "N" number at time of order.....P/N 06-00846 ..... ---

SEE WEBSITE FOR AIRCRAFT ELIGIBILITY!

SHIMMY DAMPENER REPAIR KITS

TSDK-1 & TSDK-2 Shimmy Dampener Repair Kits. Replaces the Cleveland 199-535 kit.
Specifications:
Kits Service the: 15-2, 15-8 (456-015), 15-9 (456-016), 15-10 (456-017), 15-11 (456-018), 15-13, 15-14 (456-014) and 15-16.

TSDK-1.....P/N 04-04055 ..... ---
TSDK-2 with Glyd Ring.....P/N 04-04056 ..... ---

METAL HUB CAPS

These FAA approved metal hub caps are designed for older Pipers using the 800x4 Goodrich (Hayes) brakes such as the J-3 and PA-18. A larger cap for 600 x 6 conversions are also available below. The caps are available with "CUB" stamped in raised letters or plain.

Cub 800x4 Goodrich hub cap .....P/N 06-00010 ..... **--- ea.**
(Identical in size and appearance to Cleveland #157-9)
Cub 600x6 Cleveland hub cap.....P/N 06-00020 ..... **--- ea.**
Plain 800x4 Goodrich hub cap.....P/N 06-00030 ..... **--- ea.**
Plain 600x6 Cleveland hub cap.....P/N 06-00040 ..... **--- ea.**

GROVE HUB CAPS

GROVE HUB CAP 5"

For Grove, Cleveland and Gerdes wheels. Includes mounting screws. 011-012
P/N 06-01363 ..... ---

GROVE HUB CAP 6"

For Grove, Cleveland and Gerdes 600x6 wheels. Includes mounting screws. 011-013
P/N 06-00845 ..... ---

GOODRICH 800X4 WHEEL PARTS

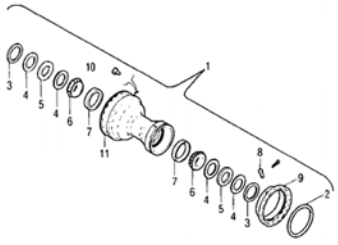


Figure No.	Part No.	Description	Price
5	B227-52	Felt, Grease Retaining	---
6	06-04699	Cone, Bearing	---
7	08231	Cup, Bearing	---
9	B11-5	Casting, Side	---
10	AN441-6-6P	Rivet, Brake Drum	---
11	B13-4	Drum, Brake (I.D. Must be turned after installation.)	---

GOODRICH WHEEL & BRAKE O-RINGS

Manufacturer	Dimensions (WxLxH)	Part No.	Price
68-448	0.19 in. X 4.07 in. X 0.19 in.	06-02273	---
68-559	3.88 in. X 3.88 in. X 0.07 in.	06-02274	---
68-1413	7.63 in. X 10 in. X 2 in.	06-02807	---
68-1318	8 in. X 10.188 in. X 0.25 in.	06-02806	---
68-216	8.25 in. X 10.25 in. X 0.11 in.	06-02567	---

MC0442512-1 SHIMMY DAMPENER ASSEMBLY FOR CESSNA

Direct replacement for part numbers 0442512-1 and 0542119-1. It's everything the original should have been and more than the rubber units ever could be! • Improved design for consistent dampening action! • Oversize shaft for rigid strength • Wear resistant hard anodized housing • Better shimmy dampening • Totally repairable • Self lubricating • Costs less than the throw away rubber dampener • Temperature compensated hydraulics • Almost no service required • Even the first minor movements are dampened • Consistent dampening action • No oil leaks. P/N 05-22192 ..... ---

SEE WEBSITE FOR AIRCRAFT ELIGIBILITY!

SEAL KITS FOR CESSNA SHIMMY DAMPENERS

Shimmy dampener seal kits contain the industry standard o-rings required to reseal the Cessna shimmy dampener.
Visit our website for application information.
Economy Kit.....P/N 06-01679 ..... ---

WHEEL COVERS

For Gerdes, McCauley, Cleveland, Hayes, Goodyear, Rosenhan and Matco wheels as listed. Furnished with mounting screws and lock washers.

157-8

Part No.	Wheel Size	Application	Price ea.
157-8	5.00-5*	Cleveland, McCauley, Gerdes	---
157-9	6.00-6**	Cleveland, McCauley, Gerdes	---
06-03705	6.00-6	All Goodyear Wheels	---
06-03900	5" Dia.	Rosenhan Matco Wheels	---

ECONOMY WHEEL COVER

For 600-6 Cleveland wheels
P/N 06-03710 ..... **--- ea.**
For 500-5 Cleveland wheels
P/N 06-00073 ..... **--- ea.**
Furnished with screws for installation

4-1/2 INCH BRAKE BANDS WITH PINS

Band Brakes are simple, effective and economical for a variety of small, light-duty small vehicles, or as parking brakes. They were designed to work with either 4" or 4-1/2" diameter drums, but may work well with drums ranging in size from 3-7/8" through 4-5/8" O.D. • 2 Piece Bonded Lining • Comes with 1 band and 1 pin. • Riveted End/Mounting Brackets • Steel Brake Pin with Cable Hole Included • Band Brake for 4.5" drum - Packaged P/N 2555 .....P/N 06-00662 ..... ---

SCOTT TYPE DIAPHRAGM FOR BRAKE CYLINDER

Master cylinder diaphragm for Piper J-3/PA-11.
Specifications: • Maximum Working Pressure: 350 lbs • Pedal Pressure: 100 lbs • Recommended Hydraulic Fluid: MIL-H-5606 • Weight as Shown: 21 ounces dry .....P/N 2844 ..... ---

06-00013

06-00430

06-01042

GOODRICH BRAKE ASSEMBLY PARTS

FOR ALL PIPERS WITH 8.00 X 4 WHEELS

Brake Block (750-033).....P/N 06-00013 ..... ---
Shield (750-093).....P/N 06-01042 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AIRCRAFT TIRE APPLICATION CHART

Tires/Tubes Certified Aircraft Application Chart - Tires are low speed unless designated. Tires are tube-type unless otherwise indicated. Consult aircraft manual for individual tire pressure. **– IMPORTANT: READ THIS LEGEND FIRST –**

Code: TL = Tubeless; SC = Smooth Contour; DT = Deflector Type; DDT = Dual Deflector Type

APPLICATION CHARTS - The application information presented within this manual is based on the most current information available and is intended for use as a **GENERAL REFERENCE ONLY.** Any inquiries regarding specific model aircraft should be directed to the applicable airframe manufacturer. Your requirements may vary depending on the actual configuration of your aircraft. All Goodyear aircraft tires are manufactured in accordance with TSO-C62, MIL-T-5041 or AIR8505A and/or applicable airframe manufacturer specifications. Additionally, all tire sizes included in this manual may not necessarily be available from Goodyear. Contact your Goodyear Representative for specific tire information and availability. **Failure to make this verification and to install unapproved tires on an aircraft may result in tire failure causing property damage, serious injury, or loss of life.**

*** Please visit our website for the "Select by Aircraft" shopping tool.**

CESSNA

Model	Name	Main Tire		Auxiliary Tire	
		Tire Size	Ply	Tire Size	Ply
120, 140	—	6.00-6	4	5.00-5	4
150, 152	Commuter,Aerobat	6.00-6	4	5.00-5	4
172	Skyhawk	6.00-6	4	5.00-5	4
R172	Hawk XP	6.00-6	4	5.00-5	4
172 Q	Cutlass	6.00-6	6	5.00-5	4
172 RG	Cutlass RG	15x6.00-6	6	5.00-5	4
175	Skylark	6.00-6	4	5.00-5	4
177	Cardinal	6.00-6	6	5.00-5	4
177 RG	Cardinal RG	15x6.00-6	6	5.00-5	4
180	Skywagon	6.00-6	6	8.00"SC	6
182, T182	Skylane	6.00-6	6	5.00-5	6
182RG,T182RG	Skylane	15x6.00-6		5.00-5	4
185	Skywagon	6.00-6	6	8.00 SC	
188	AG Wagon	22x8.00-8		10.00 SC	6
188	AG Wagon(optional)	8.50-10	6	10.00"SC	
205	—	6.00-6	6	5.00-5	6
206	Station Air	6.00-6	6	5.00-5	6
206, 207	Optional	8.00-6	6	6.00-6	4
207	Skywagon	6.00-6	8	6.00-6	8
208 (FLO)	Caravan	8.50-10	8	22x8.00-8	
208 (STA)	Caravan	6.50-10	8	6.50-8	8
210	Centurion	6.00-6	8	5.00-5	6
T210, P210	Turbo, Centurion	6.00-6	8	5.00-5	10
T303	Crusader	6.00-6	8	6.00-6	6
T303	Optional	6.50-8	8	6.00-6	6
310, T310	—	6.50-10	6	6.00-6	4
320, 340	—	6.50-10	6	6.00-6	4
336	—	6.00-6	6	15x6.00-6	
337	Super Skymaster	18x5.5	8	15x6.00-6	
401, 402	—	6.50-10	8	6.00-6	6
404	Titan	22x7.75-10	10TL	6.00-6	6
411	—	6.50-10	8	6.00-6	6
414	Chancellor	6.50-10	8	6.00-6	6
421	Golden Eagle	6.50-10	8	6.00-6	6
425	Conquest I	6.50-10	10	6.00-6	6

BELLANCA

Model	Name	Main Tire		Auxiliary Tire	
		Tire Size	Ply	Tire Size	Ply
260A	Bellanca	6.00-6	6	6.00-6	4
17-30A	Viking	6.00-6	6	15x6.00-6	6/8
17-31A	Super Viking	6.00-6	6	15x6.00-6	6/8
17-31ATC	Turbo Viking	6.00-6	6	15x6.00-6	6/8
7GCAA	Citabria	6.00-6	4	5.00-5	4
7KCAB	Citabria	7.00-6	4	5.00-5	4
8KCAB	Decathlon	8.00-6	4	5.00-5	4
8GCBC	Scout	8.50-6	4/6	5.00-5	4

MOONEY

Model	Name	Main Tire		Auxiliary Tire	
		Tire Size	Ply	Tire Size	Ply
MO-20	Ranger	6.00-6	6	5.00-5	4/6
MO-21C	Super	6.00-6	6	5.00-5	4/6
MO-22	Mustang	6.00-6	6	15x6.00-6	6
MO-20E	Chapparal	6.00-6	6	5.00-5	4
MO-20F	Executive	6.00-6	6	5.00-5	6
MO-20J	201	6.00-6	6	5.00-5	6
MO-20K	Turbo 231	6.00-6	6	5.00-5	6
M-20K	TSE	6.00-6	6	5.00-5	4
M-20M	Bravo	6.00-6	6	5.00-5	6
M-20S	Eagle	6.00-6	6	5.00-5	6
M-20R	Ovation	6.00-6	6	5.00-5	6

COMMANDER AIRCRAFT

Model	Name	Main Tire		Auxiliary Tire	
		Tire Size	Ply	Tire Size	Ply
112	Commander	6.00-6	6	5.00-5	4
112B	—	7.00-6	6	5.00-5	4
112TC, TCA	—	7.00-6	6	5.00-5	6
114	—	7.00-6	6	5.00-5	6
114A, B	—	6.00-6	6	5.00-5	6

BEECH

Model	Name	Main Tire		Auxiliary Tire	
		Tire Size	Ply	Tire Size	Ply
C-17R	Staggerwing	7.50-10	6	10.00SC	—
BE 18	Twin Beech	11.00-12	8 TL	14.50SC	8TL
BE 18H	Twin Beech	8.50-10	8 TL	8.50-10	8TL
BE 19	Musketeer Sport	6.00-6	4	6.00-6	4
BE 23	Musketeer	6.00-6	4	6.00-6	4
BE23C,BE-A24	Sundowner	6.00-6	4	6.00-6	4
BE 24-R	Super Sierra	6.00-6	4	5.00-5	4
BE 33A	Bonanza	7.00-6	6	5.00-5	4
BE 35	Bonanza	7.00-6	6	5.00-5	4
BE 36	Bonanza	7.00-6	6	5.00-5	4
BE 50	Twin Bonanza	8.50-10	6	6.50-10	4
BE B55	Baron	6.50-8	8	5.00-5	6
BE C55	Baron	6.50-8	8	5.00-5	6
BE E55	Baron	6.50-8	8	5.00-5	6
BE 58	Baron	6.50-8	8	5.00-5	4
BE 60	Duke	19.5x6.75-8	10TL	15x6.00-6	4
BE 65	Queen Air	8.50x10	8TL	6.50-10	6TL
BE-80	Queen Air	8.50-10	8TL	6.50-10	6TL
BE-C90B	King Air	8.50-10	8TL	6.50-10	6TL
BE-B200	Super King Air	18x5.5	10TL	22x6.75-10	8TL
BE-200T	Super King Air	22x6.75-10	8TL	22x6.75-10	8TL
BE-99	—	18x5.5	8 TL	6.50-10	6TL
BE-300/350	Super King Air	22x6.75-10	8TL	19.5x6.75-8	10TL
BE-2000	Starship 1	H19.5x6.75-10	8 TL	19x6.75-8	10TL

PIPER

Model	Name	Main Tire		Auxiliary Tire	
		Tire Size	Ply	Tire Size	Ply
J3	Cub	8.00-4	4	8.00"SC	Solid
PA18-135	Super Cub	6.00-6	4	8.00"SC	Solid
PA18-150	Super Cub	6.00-6	4	6x2.00	Solid
PA22	Tri Pacer	6.00-6	6	6.00-6	6
PA23,160-235	Apache	7.00-6	6	6.00-6	4
PA23-250	Aztec	7.00-6	8	6.00-6	4
PA24-180	Commanche	6.00-6	4	6.00-6	4
PA24,250,260,400	Commanche	6.00-6	6	6.00-6	4/6
PA25-150	Pawnee	7.00-6	4	8x3.00-4	4
PA25,236,260	Pawnee	8.00-6	4	8x3.00-4	4
PA28R-201	Arrow	6.00-6	6	5.00-5	4
PA28-140	Cherokee	6.00-6	4	6.00-6	4
PA28-150	Cherokee	6.00-6	4	6.00-6	4
PA28-151,161	Warrior	6.00-6	4	5.00-5	4
PA28-160	Cherokee	6.00-6	4	6.00-6	4
PA28-180	Cherokee	6.00-6	4	6.00-6	4
PA28-181	Archer	6.00-6	4	5.00-5	4
PA28-235	Cherokee	6.00-6	4	6.00-6	4
PA30	Twin Commanche	6.00-6	4	6.00-6	6
PA31	Navajo	6.50-10	8	6.00-	6
PA31	Chieftain	6.50-10	8	6.00-6	6
PA31T	Navajo	6.50-10	10	6.00-6	6
PA31P	Pressurized Navajo	6.50-10	8	6.00-6	8
PA31T-500	Cheyenne 1A	6.50-10	10	6.00-6	6
PA32	6-300	6.00-6	6	6.00-6	6
PA32RT300	Lance	6.00-6	8	6.00-6	4
PA31P-350	Mojave	6.50-10	8	17.5x6.25-6	10
PA34-220	Seneca	6.00-6	8	6.00-6	6
PA36	Brave	8.50-10	6	10x3.5-4	6
PA38	Tomahawk	6.00-6	6	5.00-5	6
PA42	Cheyenne IIIA	6.50-10	12 TL	17.5x6.25-6	10
PA44-180	Seminole	6.00-6	6	6.00-6	6
600/601B (PA60)	Aerostar	6.50-8	8TL	6.00-6	6
601P(PA60-601P)	Aerostar	6.50-8	8 TL	6.00-6	6
602P(PA60-602P)	Aerostar	6.50-8	8 TL	6.00-6	6
700P(PA60-700P)	Aerostar	6.50-8	8 TL	6.00-6	6
PA46-350P	Malibu Mirage	6.00-6	8	5.00-5	6
PA34-270T	Seneca V	6.00-6	8	6.00-6	8
PA44-180	Seminole	6.00-6	8	5.00-5	6
PA32R-301	Saratoga II HP	6.00-6	8	5.00-5	6
PA32R-301T	Saratoga II TC	6.00-6	8	5.00-5	6
PA28-181	Archer III	6.00-6	4/6	6.00-6	4
PA28-161	Warrior III	6.00-6	4	5.00-5	4

MAULE

Model	Name	Main Tire		Auxiliary Tire	
		Tire Size	Ply	Tire Size	Ply
MX-7-160	—	7.00-6	4/6	280/250-4	4
MXT-7-160	—	7.00-6	4/6	280/250-4	4
M-8-235	—	7.00-6	4/6	280/250-4	4
MX7-420	—	7.00-6	4/6	280/250-4	4

GOODYEAR TIRES & TUBES

Flight Custom III™

Goodyear Flight Custom III™ Tires are the ONLY General Aviation tires with Kevlar®:

- Antioxidant formulation to help reduce cracking.
- Deeper Tread Depth.
- Wide Aquachannels®.
- Kevlar® belt package.
- Premium Wingstay® formulation.
- Dual polymer tread compound.
- Get up to 20% more landings.
- Superior wet traction, enhanced treadwear.
- The Goodyear® Flight Custom III® offers up to 20% more landings to removal than its predecessor. Dupont tm and Kevlar (circleR) are trademarks or registered trademarks or E.I. du Pont de Nemours and Company. Results may vary based on proper maintenance, runway and operating conditions.

Flight Special II™

A popular replacement tire for light aircraft, the Flight Special is an unsurpassed combination of value and performance. Designed for long treadlife, this tire is built to last. Every strand of nylon cord in the casing has been triple tempered with time, tension and temperature to provide the ultimate in tire construction, uniformity and strength.

FEATURES:

- Wide rib tread design and large footprint
- Enhanced tread compound for uniform wear and extended service life
- Triple-tempered nylon casing cord.

BENEFITS:

- Enhanced traction
- Uniform wear and extended

SERVICE LIFE:

- Excellent Treadwear.

TIRE TALC

Eases installation of tubes in tires. Size: 13oz.

P/N 17-250 ..... ---

SILICONE BASE TUBE TALC

16 oz. Shaker bottle of Silicone Base Tube Talc Adds Extra Life and Prevents Pinching & Chafing on rubber tubes.

P/N 05-11180 ..... ---

A "B" at the end of a description means BENT valve stem. An "S" at the end of a description means STRAIGHT valve stem.

(1) For use in both 5.00-5 and G380x150-5 (15x6.00-5).
(2) For use in both 6.00-6 and 15x6.00-6 tires.
(3) For use in both 7.00-6 and 8.00-6 tires.
(4) For use in 6.50-8, 19.5x6.75-8 & 22x8.00-8 tires.
(5) Discontinued, call for Special Pricing.

-Natural rubber aircraft tubes comply with the requirements of Goodyear QAI 2525, which the U.S. Military has accepted in lieu of MIL-I-5014.

-Flight Mate (Butyl) tubes comply with the requirements of SAE document AS 50141.

GOODYEAR TIRES – TUBE TYPE

Tire Size	PR	Description	Speed (MPH)	Avg. Weight (lbs.)	Part No.	Price ea.
5.00-4	6	RIB	120	4	06-04700	---
15X6.00-5 / G380-150-5	6	RIB	120	7	06-01078	---
5.00-5	4	Flight Custom III	160	7	06-04900-3	---
5.00-5	4	Flight Special II	120	5	06-07110	---
5.00-5	6	Flight Custom III	160	7	06-05100-3	---
5.00-5	6	Flight Special II	120	5	06-07100	---
5.00-5	10	Flight Special II	120	6	06-00208	---
15X6.00-6	6	Flight Custom III	160	9	06-05500-3	---
15x6.00-6	6	Flight Special II	160	8	06-07340	---
6.00-6	4	Flight Custom III	160	11	06-05200-3	---
6.00-6	4	Flight Special II	120	9	06-07200	---
6.00-6	6	Flight Custom III	160	11	06-05400-3	---
6.00-6	6	Flight Special II	120	9	06-07300	---
6.00-6	8	Flight Custom III	160	11	06-05410-3	---
6.00-6	8	Flight Special II	120	9	06-07310	---
6.50-8	6	Flight Custom III	160	14	06-05600-3	---
6.50-8	8	Flight Custom III	160	14	06-05800-3	---
6.50-8	8	Flight Special II	120	12	06-07320	---
6.50-10	8	Flight Custom III	160	16	06-06100-3	---
6.50-10	8	Flight Special II	120	14	06-00209	---
6.50-10	10	Flight Custom III	160	17	06-06110-3	---
7.00-6	6	Flight Custom III	160	13	06-06200-3	---
7.00-6	6	Flight Special II	120	10	06-07330	---
7.00-6	8	Flight Custom III	160	13	06-06210-3	---
8.00-4	4	RIB	120	9	06-06600	---
8.00-6	6	Flight Special II	120	13	06-01145	---
8.00-6	8	Flight Special II	120	12	06-00212	---
8.50-6	6	RIB - Tubeless	120	12	06-02568	---
8.50-10	8	Flight Custom III	160	24	06-06900-3	---
6.00-6.5 / 420X150	4	RIB	120	6	06-01088	---
18X5.5	8	Flight Special II	120	11	06-00203	---
22X8.00-8	6	Flight Special II	120	14	06-00205	---

GOODYEAR TIRES – TUBELESS

Tire Size	PR	Description	Speed (MPH)	Avg. Weight (lbs.)	Part No.	Price ea.
5.00-4	14	RIB	120	7	06-01057	---
6.00-6	8	Flight Custom III	160	12	06-01058	---
17.5X6.25-6	10	Flight Special II	160	11	06-00202	---
6.50-8	8	Flight Custom III	160	15	06-01060	---
6.50-10	6	Flight Custom III	160	17	06-05900-3	---
6.50-10	12	Flight Special II	160	21	06-00210	---
7.00-6	10	Flight Custom II	120	12	06-01061	---
7.00-8	10	RIB, All Weather	120	15	06-01062	---
7.50-14	12	RIB	160	36	06-01063	---
8.50-10	8	Flight Custom III	160	27	06-01064	---
8.50-10	10	Flight Custom III	160	28	06-01065	---
8.90-12.50	6	RIB, All Weather	160	24	06-01067	---
9.00-6	10	RIB	120	22	06-01068	---
9.25-12 / 28X9.0-12	12	RIB	160	38	06-01069	---
11.00-12	10	RIB	160	45	06-01070	---
13X5.0-5	8	Smooth	120	7	06-01071	---
14.5X5.5-6	14	RIB	120	10	06-01072	---
15X6.0-6	10	Flight Custom II	160	9	06-01073	---
22X6.75-10	8	Flight Custom III	160	20	06-01074	---
26X10.5-6	6	Smooth	120	23	06-01075	---
27	10	RIB	120	-	06-03040	---
29X11.00-10	10	RIB	120	36	06-00206	---
15.00-12	14	RIB	160	59	06-01076	---
15.00-16	16	RIB	120	95	06-01077	---
670/210-12	10	RIB	160	12	06-02219	---

GOODYEAR TUBES

Tube Size	Description	Avg. Weight (lbs.)	Part No.	Price ea.
5.00-4 Flight Mate	Butyl Tube TR 67, B	1	06-04800	---
5.00-5 Flight Mate	Butyl Tube TR 67A (1), B	1	06-05000	---
6.50-10 Flight Mate	Butyl Tube TR 25, S	2	06-06000	---
7.00/8.00-6 Flight Mate	Butyl Tube TR 20, (3), S	2	06-06300	---
7.50/8.50-10 Flight Mate	Butyl Tube TR 25, S	3	06-07000	---
8.50-6 Flight Mate	Butyl Tube TR 20, S	3	06-01050	---
8.90-12.50 Flight Mate	Butyl Tube TR 25, S	6	06-01051	---
G15/6.00-6 Flight Mate*	Butyl Tube TR 67A, B	1	06-05305	---
G15/6.00-6 Flight Mate*	Butyl Tube TR 20, (2), S	1	06-05300-1	---
G19.5X6.75-8 Flight Mate	Butyl Tube TR 15, (4), S	2	06-05700	---

*** ALSO FOR 600 X 6 TIRES.**

GOODYEAR FLIGHT EAGLE TIRES

With over 100 years of brighter ideas about lighter flight, it's only natural that Goodyear lights the way with LJs and VLJs.

Goodyear Flight Eagle LT is a new tire, but it's already been chosen for the Embraer Phenom 100 and Phenom 300 aircraft. The LT stands for Light Turbine... a new generation of aircraft tires for demanding high speed take-offs and landings.

Features: • Computer-aided design • Special inner-liners • Enhanced bead compounds and construction • Sidewalls with a reservoir of antioxidants • **Benefits**: • Maximum number of landings • Enhanced air retention • Great serviceability and resistance to wheel damage • Special wear-resistant tread compounds Low cost-per-landing • Excellent resistance to weather effect of sunlight and ozone

BUSINESS BIAS AIRCRAFT TIRES

Tire Size	PR	Description	Speed (MPH)	Avg. Wt. (lbs.)	Aircraft	Part No.	Price
5.00-5	10	Flight Eagle LT	190	11	TBM900	06-02499	---
18X4.25-10	6	Flight Eagle, DT	210	12	Hawker 125	06-01316	---
16X4.4	4	Flight Eagle	210	8	Westwind 1124	06-01317	---
16X4.4	6	Flight Eagle, DT	210	10	Westwind 1125, SJ30-2, AstraSPG100	06-01319	---
16X4.4	10	Flight Eagle	210	11	Citation X	06-01320	---
16X4.4	12	Flight Eagle	190	9	SJ-30-2	06-01321	---
18X4.4	6	RIB,DDT	190	11	Cit 525, CJ,CJ-1,CJ-2	06-01322	---
18X4.4	10	Flight Eagle, DT	210	12	Dash8, CL-600	06-01323	---
18X4.4	10	RIB, DDT	210	13	Cessna CIT I/II, Lear	06-01324	---
18X4.4	10	RIB, DDT	190	13	Cessna CIT II, CJ-3	06-01325	---
18X4.4	10	RIB, DDT	210	14	Diamond I/II, Beech Jet, CIT II, III, V, VI, VII	06-01358	---
18X4.4	12	Flight Eagle, DT	210	13	Jetstar II, CL600/601	06-01326	---
18X5.5	8	Flight Leader	210	12	Saab 2000	06-02224	---
14.5X5.5-6	LR2800	Flight Eagle, DT	210	11	Falcon 20	06-01327	---
18X5.5	8	Flight Eagle	190	13	Lear23, KingAir, CE-337	06-01328	---
18X5.5	10	Flight Eagle	210	14	Lear23/24/25, EMB120	06-01329	---
18X5.5	10	Flight Leader	210	15	Challenger 300	06-01330	---
19.5 X 6.75	8	Flight Leader	210	17	Embraer:ERJ 135/140/145 ER Regional Jet Embraer: ERJ 145LR Regional Jet	06-02972	---
24X7.25	12	Flight Leader	190	27	Aero - L-39 Albatros Embraer - EMB 120 Brasilia	06-03013	---
17.5X5.75-8	12	Flight Eagle	210	15	Learjet 30 Series	06-01331	---
17.5X5.75-8	17	Flight Eagle	210	17	Learjet 55, 60	06-01332	---
21x7.25-10	14	Flight Eagle	225	--	Gulfsteam G650	06-02843	---
18X5.75-8	8	Flight Eagle, DDT	190	13	Falcon 10	06-01333	---
22X5.75-12	10	Flight Eagle	190	20	CITII,VI,VII,F-10, Lear 45	06-01334	---
15X6.00-6	10	Flight Eagle LT DDT	160	11	EMB Phenom	06-01336	---
17.5X6.25-6	8	RIB, DDT, TT	190	11	Corvette	06-01337	---
21X6.50-10	12	Flight Eagle LT	160	18	EMB Phenom 100	06-01338	---
26X6.6	14	Flight Eagle	210	31	CL-600/601, Jetstar I/II, Corvette, Falcon 20, 50, 200	06-01339	---
26X6.6	14	Flight Eagle	210	31	CL-600/601, Jetstar I/II, Corvette, Falcon 20, 50, 200	06-01334	---
25.75X6.75-14	14	RIB	210	33	CL-600/601	06-01340	---
26.6.75-14	16	Flight Eagle	190	38	Sabre 60, 65	06-01341	---
23X7.00-12	12	Flight Eagle	210	28	Hawker 125 Astra SP G100	06-01342	---
21X7.25-10	12	Flight Eagle, DT	225	20	GII,III,IV,V,G300, 350, 400, 450, 550, Global Express	06-01343	---
24X7.7	16	Flight Leader	210	32	Beechjet 400	06-01344	---
24x7.7	16	Flight Leader	225	32	Boeing 737-100, Boeing 737-200	06-02230	---
24x7.7	10	Flight Leader	225	32	Nextant 400XT, Twin 690D Jetprop 1000	06-03533	---
Twin 690D	10	RIB	190	20	1, CJ1+	06-01345	---
22X7.75-10	12	RIB	190	25	CIT C-2, CJ-2+	06-01346	---
22X8.00-10	10	Flight Eagle	190	24	CIT I/II	06-01347	---
22X8.00-10	12	Flight Eagle	190	28	CIT II, V	06-01348	---
H26.5X8.0-14	14	Flight Leader	210	32	Challenger 300	06-02220	---
H22X8.25-10	12	Flight Eagle	190	22	CJ-3	06-01350	---
H22X8.25-10	14	Flight Eagle	190	31	Citation 550/560	06-01351	---
30X9.5-14	16	Flight Leader	210		Embraer	06-02482	---
34X9.25-16	18	Flight Eagle	210	68	GII, III, IV	06-01352	---
H34X9.25-18	18	Flight Eagle	225	58	GIV-SP, G300,350, 400,450	06-01353	---
B24X9.5-10.5	18	RS700	210	40	Westwind 1124	06-01354	---
29X9.0-15	16	Flight Eagle LT	210	44	CRJ100 Regional Jet, CRJ200 Challenger 800/850, CRJ200 Regional Jet	06-02235	---
H35X11.0-18	20	Flight Eagle	335	82	GV, G500, 550	06-01355	---
H38X12.0-19	20	Flight Eagle	210	87	Global Express	06-01356	---
21X7.25R10	14	Flight Radial	225	--	G600, Global 7500	06-03355	---
H34X9.5R18	18	Flight Radial	225	--	G500	06-03356	---
26X6.6R14	14	Flight Radial	225	26	Falcon 20/50/200	06-02569	---
26X6.6R14	14	Flight Radial	225	26	Falcon 20/50/200	06-01357	---
32x8.8R16	12	Flight Radial	190	43	ATR 42	06-03547	---
BUSINESS RADIAL AIRCRAFT TIRES							
450x190-5	10	Flight Leader	190	15	ATR42, ATR72	06-03548	---
34x10.75-16	16	Flight Leader	210	55.8	Bombardier Q400 (HDC-8 Series 400)	06-03012	---
22x6.5-10	8	RIB	190	19	Bombardier Q400 (HDC-8 Series 400)	06-03011	---
26X6.6R14	14	Flight Radial	225	26	Falcon 20/50/200	06-01357	---
H34x10.0R16	14	Flight Radial	190	55.7	ATR72	06-01951	---
H25X8.0-12	16	Flight Eagle LT	210	--	EMB Phenom 300	06-02570	---
H37.5x12.0R19	20	Flight Radial	225	--	See website for application information	06-02844	---
H39X12.0R19	22	Flight Radial	225	--	See website for application information	06-03532	---
29X9.0-15	16	Flight Leader	210	-	CRJ100 Regional Jet, CRJ200 Challenger 800/850, CRJ200 Regional Jet	06-02235	---

SPECIALTY TIRES & TUBES

Manufactured by Specialty Tires of America (Formerly McCreary)

These fine nylon cord tires with rib tread design are rigidly tested to meet FAA Standard TSO-C62. The Air Trac® is an excellent choice for single engine, piston aircraft. It is ideal for aircraft operated on grass strips while being perfectly usable on hard surfaces. This unique, narrow-ribbed, oval shaped tire is designed for soft field applications.
The 7.00/8.00-6 tube can be utilized in both 7.00-6 and 8.00-6 tires.

AIR TRAC TIRES & TUBES

Tube-Type Tire Size	Ply Rating	Wt./Lbs.	Tire Pressure PSI (a)	Max. Load Rating Lbs.(a)	Tire		Tube	
					Part No.	Price	Part No.	Price
5.00-5	4	4.4	31	800	06-08210	---	06-08300	---
5.00-5	6	4.3	50	1285	06-08200	---	06-08300	---
6.00-6	4	6.8	29	1150	06-08400	---	06-08700	---
6.00-6	6	7.0	42	1750	06-08500	---	06-08700	---
6.00-6	8	7.3	55	2350	06-08600	---	06-08700	---
15x6.00-6	4	6.3	45	1250	06-08800	---	06-08901	---
15x6.00-6	6	6.6	68	1950	06-08900	---	06-08901	---
6.50-8	6	9.3	51	2300	06-02973	---	06-09200	---
6.50-8	6	9.5	51	2300	06-09000	---	06-09200	---
6.50-8	8	10.0	75	3150	06-07914	---	06-09200	---
6.50-10	6	10.7	60	2770	06-02552	---	06-09500	---
6.50-10	8	12.0	80	3750	06-09400	---	06-09500	---
6.50-10	10	15.2	100	4750	06-09410	---	06-09500	---
7.00-6	6	9.0	38	1900	06-09600	---	06-09800	---
7.00-6	8	9.4	54	2550	06-09700	---	06-09800	---
7.50-10	6	14.3	46	3000	06-09710	---	06-09810	---
8.00-6	4	10.0	23	1350	06-09900	---	06-09800	---
8.00-6	6	10.3	35	2050	06-10000	---	06-09800	---
8.50-6	6	16.5	30	2275	06-10100	---	06-10200	---
8.50-10	6	17.5	41	3250	06-02975	---	06-10500	---
8.50-10	6	16.5	41	3250	06-10300	---	06-10500	---
8.50-10	8	19.5	55	4400	06-10400	---	06-10500	---
6.50-10	6	10.9	60	2770	06-02552	---	06-09500	---
12.5x4.5	10	--	--	--	06-02976	---	06-02497	---
14.5	8	--	--	--	06-02977	---	--	---
3.50 X 4.10-4	--	--	--	--	--	---	06-08102	---
29 X 11	--	--	--	--	--	---	06-02986	---

The 7.00/8.00-6 tube can be utilized in both 7.00-6 and 8.00-6 tires.

AIR HAWK TIRES

Tube-Type Tire Size	Ply Rating	Wt./Lbs.	Part No.	Price
5.00-5	4	3.8	06-07710	---
5.00-5	6	4.3	06-07700	---
5.00-5	10	6.2	06-07720	---
6.00-6	4	6.8	06-07800	---
6.00-6	6	7.0	06-07900	---
6.00-6	8	7.8	06-07910	---
6.50-8	6	10.5	06-07912	---
6.50-8	8	10.5	06-07914	---
6.50-10	6	11.5	06-07916	---
6.50-10	8	11.8	06-07918	---
6.50-10 Special	8	14.5	06-00416	---
6.50-10	10	16.2	06-07920	---
7.00-6	6	9.5	06-07922	---
7.00-6	8	9.4	06-07924	---
8.00-6	4	10.4	06-07926	---
8.00-6	6	10.7	06-07928	---
8.00-6	8	11.8	06-07929	---
8.50-10	6	19.9	06-07932	---
8.50-10	8	23.3	06-07934	---
17.5/625-6	10	--	06-00309	---
18-5.5	8	--	06-00310	---
22/800-8	6	--	06-00311	---
29/1100-10	10	--	06-00312	---

SUPER HAWK TIRES

Designed to handle higher landing speeds and heavier loads, the Super Hawk® offers advanced design. The result is a premium belted aircraft tire that surpasses FAA specifications and matches the performance levels of far more expensive brands.

Part No.	Tire Size	Ply Rating	Price Ea.
06-17000	5.00-5	6	---
06-18000	6.00-6	6	---
06-17500	6.50-10	8	---
06-17505	6.00-6	8	---

Part No.	Tire Size	Ply Rating	Price Ea.
06-17510	6.50-10	10	---
06-17515	7.00-6	6	---
06-17520	7.00-6	8	---
06-17525	6.50-8	8	---

Call for pricing on other sizes of Hawk Tires.

AERO TRAINER TIRES

Tube Type Tire Size	Ply	Part No.	Price Each
5.00-5	6	06-01700	---
6.00-6	6	06-01800	---

Aero Trainer Tires use standard Specialty Tires tubes listed above

NYLON TUBELESS TIRES

Nylon Tubeless Tires: Designed especially for classic planes including warbirds, DC-3's and Beech 18's. The Aero Classic® is also great for many foreign and European aircraft. Many sizes of the Aero Classic® come in both historical diamond tread or in the more current rib tread for work uses.

Tire Size	Ply	Part No.	Price
27" Diamond Tread	10	06-00080	---
27" Rib	10	06-00081	---

SPECIALTY TIRE & TUBE PACKAGES

600 X 6, 4 PLY KIT - Consists of three 600 x 6 4 ply tires and tubes. Fits PA-24-180 Comanche, PA-28 Cherokee, Beech Musketeer, Musketeer Sport, and Sundowner.
W/Air Trac tires.....P/N 06-21200 ..... ---
W/Air Hawk tires.....P/N 06-21205 ..... ---

600 X 6, 6 PLY KIT - 600 X 6 - 6 Ply Package. Fits Piper PA-32 6-300, Lance, PA-44 Seminole, PA-30 Twin Comanche, and Cessna 337.
W/Air Trac tires.....P/N 06-21300 ..... ---
W/Air Hawk tires.....P/N 06-21305 ..... ---

6.00 X 6, 6 PLY / 5.00 X 5, 6 PLY KIT - Two Specialty Tires 6.00 x 6, 6 ply tires and tubes and one 5.00 x 5, 6 ply tire and tube. Fits Cessna 182, 182N; all 206 Skylane, Skywagon, and Station Air 207; Mooney 201, 220; Waco 250 260, PA-32 6-300 Lance.
W/Air Trac tires.....P/N 06-21100 ..... ---
W/Air Hawk tires.....P/N 06-21105 ..... ---

6.00 X 6, 4 PLY KIT - Two Specialty Tires 6.00 x 6, 4 ply tires and tubes. Fits Bellanca Citabria 7ECA, 7GCA-A, 7GCBC and 7KCA-B.
W/Air Trac tires.....P/N 06-21110 ..... ---
W/Air Hawk tires.....P/N 06-21115 ..... ---

6.00 X 6, 4 PLY / 5.00 X 5, 4 PLY KIT - Two Specialty Tires 6.00 x 6, 4 ply tires and tubes and one 5.00 x 5, 4 ply tire and tube. Fits Beech Super/Musketeer Sierra; Cessna 150, 172, 175, 177; Grumman AA1B, AA5; PA-28, 151, 180R, 200R.
W/Air Trac tires.....P/N 06-21120 ..... ---
W/Air Hawk tires.....P/N 06-21125 ..... ---

6.00 X 6, 6 PLY / 5.00 X 5, 4 PLY KIT - Two Specialty Tires 6.00 x 6, 6 ply tires and tubes and one 5.00 x 5, 4 ply tire and tube. Fits Beech Debonair 33, 33A; Bonanza 33; Mooney 200, Mark 21C; Rockwell Commander.
W/Air Trac tires.....P/N 06-21130 ..... ---
W/Air Hawk tires.....P/N 06-21135 ..... ---

6.00 X 6, 6 PLY / 6.00 X 6, 4 PLY KIT - Two Specialty Tires 6.00 x 6, 6 ply tires and tubes and one 6.00 x 6, 4 ply tire and tube. Fits Bellanca 206, Viking; PA-24-250, 260, PA-32-260, 300.
W/Air Trac tires.....P/N 06-21140 ..... ---
W/Air Hawk tires.....P/N 06-21145 ..... ---

6.50 X 10, 8 PLY / 6.00 X 6, 6 PLY KIT - Two Specialty Tires 6.50 x 10, 8 ply tires & tubes & one 6.00 x 6, 6 ply tire and tube. Fits Cessna 340, 401, 402, 411, 414, 421; PA-31-300, 310, 350, PA-31P-425.
W/Air Trac tires.....P/N 06-21155 ..... ---
W/Air Hawk tires.....P/N 06-21160 ..... ---

7.00 X 6, 6 PLY / 6.00 X 6, 4 PLY KIT - Two Specialty Tires 7.00 x 6, 6 ply tires and tubes and one 6.00 x 6, 4 ply tire and tube. Fits PA-23, 160, 235, 250.
W/Air Trac tires.....P/N 06-21165 ..... ---
W/Air Hawk tires.....P/N 06-21170 ..... ---

8.50 X 6, 6 PLY KIT - Two Air Trac 8.50 x 6, 6 ply tires and tubes. Fits Bellanca Decathlon 8KCA-B and Scout 8GCBC.
W/Air Trac tires.....P/N 06-21175 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MICHELIN® AIR® & AVIATOR® GENERAL AVIATION TIRES

Michelin® AIR®: The tire for demanding pilots. The sidewall compound is optimized to provide maximum ozone and ultraviolet light protection, while the MX2000 tread compound is Michelin's toughest. In addition, the new Air Cushion Inner Liner provides a protective cushion over the casing plies which guards against inner tube chafing. And the Posi-Fit bead construction reduces movement between the tire and the wheel for improved lateral stability.
Michelin® Aviator®: A Michelin quality tire at a great price. Like the Michelin AIR, the Aviator offers exceptional balance, a new sidewall configuration and an extra strong nylon casing. It also features the tough MX1000 tread compound for long life, and a specialized sidewall compound to protect against ultraviolet light.

Size	Ply	Speed (MPH)	Brand	Avg W (lbs)	Applications	Part No.	Price
11.00-12	10	160	Michelin Aviator	46	IAI 201, Bombardier DHC6, Casa 212, 235 (MLG)	06-01397	---
15x6.0-6	6	160	Michelin Air	7	Cessna 172, 177, 182 - Cirrus SR20, SR22 (MLG) - Cessna 336, 337 (NLG)	06-01398	---
16x4.4	8	160	Michelin Aviator	9	Raytheon T6A Texan - Pilatus PC9 - Embraer Xingu - Fairchild SA226 (NLG)	06-01399	---
16x4.4	8	160	Michelin Air	9	Cessna Mustang (NLG)	06-01401	---
17.5x5.75-8	12	210	Michelin Aviator	14	Learjet 20, 31, 35, 36 (MLG)	06-01402	---
17.5x6.25-6	10	120	Michelin Air	11	Piper PA31, 42 (NLG)	06-01403	---
17.5x6.25-6	8	160	Michelin Air	11	Pilatus PC-12 (NLG)	06-01404	---
18x4.25-10	6	210	Michelin Air	11	Hawker 700, 800, 800XP, 1000 (NLG)	06-01405	---
18x4.4	6	190	Michelin Air	9	Hawker Premier 1 (NLG)	06-01413	---
18x4.4	6	190	Michelin Air	13	Cessna CJ, CJ1, CJ1+, CJ2 (NLG)	06-01411	---
18x4.4	10	210	Michelin Air	12	Hawker Beechjet 400A - Cessna CJ2+, CJ3, Citation I, II, III, V, VI, VII, Bravo, Encore, Encore+, Excel, XLS (NLG) - Learjet 40, 45	06-01407	---
18x4.4	12	210	Michelin Air	13	Bombardier Challenger 600, 601, 604 (NLG)	06-01408	---
18x5.5	10	210	Michelin Air	14	Beech King Air 200, 55 (MLG) - Socata TBM 700, 850 (MLG)	06-01415	---
18x5.5	8	190	Michelin Aviator	12	Beech King Air 200, 99, 100 - Cessna 337 -Socata TBM700 (MLG) - Bombardier DHC8 - Embraer EMB120, Fairchild SA226 (NLG)	06-01416	---
19.5x6.75-8	10	160	Michelin Aviator	14	Beech King Air 300, Baron 58, 60 - Fairchild SA226, 227 (MLG)	06-01417	---
19.5x6.75-8	10	190	Michelin Aviator	17	Beech 1900, C, D (NLG)	06-01418	---
20x4.4	8	160	Michelin Aviator	13	Pilatus PC9 (MLG)	06-01419	---
22x6.75-10	10	190	Michelin Air	18	Beech King Air 200 (NLG), Beech 1900D (MLG), IJT36 (MLG)	06-01422	---
22x6.75-10	8	160	Michelin Aviator	16	Beech 1900C (MLG), King Air 300 & 200 (NLG) - Tucano S312 (MLG) - Cessna Mustang (MLG)	06-01423	---
22x7.75-10	12	190	Michelin Air	20	Cessna CJ, CJ1, CJ1+, CJ2, CJ2+ (MLG)	06-01424	---
23x7.0-12	12	210	Michelin Air	27	Gulfsteam G150 (MLG), Hawker 800, 800XP, 1000 (MLG)	06-01429	---
23x7.0-12	12	210	Michelin Air	27	Gulfsteam G150 (MLG), Hawker 800, 800XP, 1000 (MLG)	06-01430	---
24X7.7	14	190	Michelin Air	--	Pilatus PC-24	06-04173	---
450X190-5	8	190	Michelin Nose Tire	--	Pilatus PC-24	06-04172	---
29x11.0-10	10	160	Michelin Air	35	Cessna 208 (MLG)	06-01432	---
34x9.25-16	18	210	Michelin Air	72	Gulfstream II, IIB, III, IV (MLG)	06-01433	---
380x150-5	6	120	Michelin Air	7	Robin	06-01434	---
5.00-5	8	160	Michelin Air	6	Eclipse 500 (NLG)	06-01436	---
5.00-5	6	120	Michelin Air	6	Cirrus SR20, SR22 (NLG)	06-08052	---
5.00-5	10	120	Michelin Aviator	6	--	06-01437	---
5.00-5	8	160	Michelin Aviator	7	Eurocopter Tigre (TLG)	06-01438	---
5.00-5	4	120	Michelin Air	6	--	06-01439	---
6.00-6	8	120	Michelin Air	9	--	06-08058	---
6.00-6	4	120	Michelin Air	9	--	06-01441	---
6.50-10	8	120	Michelin Air	16	Cessna 208, 310, 335, 401, 402, 414, 421, 425, Piper PA-30, 31 (MLG)	06-08065	---
6.50-10	6	120	Michelin Air	16	Beech King Air 90 (NLG)	06-01447	---
6.50-10	12	160	Michelin Aviator	17	Piper PA-42 (MLG)	06-01448	---
6.50-10	10	120	Michelin Air	16	Cessna 425 Conquest I (MLG)	06-01450	---
6.50-10	10	160	Michelin Air	16	--	06-01450	---
6.50-8	8	160	Michelin Air	13	Beech Baron 55,56 (MLG)	06-08070	---
7.00-6	6	120	Michelin Air	11	Beech 33, 35, 36 (MLG)	06-08059	---
6.00-6	6	160	Michelin Aviator			06-01442	---
8.00-6	6	120	Michelin Aviator	13	Cessna 140, 185, 206, 207, 305, 01E, Socata Rallye	06-01456	---
8.50-10	8	160	Michelin Air	25	Beech 18, 50, 65, 70, 80, 88, King Air 90 - Cessna 188, 208, 308, 406 - Gulfstream 500, 560, 680, 681, 685, 720 - Mitsubishi MU2 - Piaggio 149, 166, 136 - Rockwell Int'l 500, 560, 680, 520 (MLG)	06-01458	---
8.50-10	10	160	Michelin Air	25	Gulfstream 690, 680T - Rockwell Int'l 685, 690, 695, 700, 840 (MLG)	06-01459	---
8.50-6	6	120	Michelin Air	--	High flotation, fixed gear	06-01461	---
6.50	10	160	Michelin Air	14	--	06-03021	---
H22x8.25-10	12	190	Michelin Air	20	Cessna CJ3 (MLG) - Hawker Premier 1 (MLG)	06-01463	---
H22x8.25-10	14	190	Michelin Air	22	Cessna Citation Encore, Encore+, 560 (MLG)	06-01464	---
H27x8.5-14	16	210	Michelin Air	40	Bombardier Challenger 604 (MLG)	06-01465	---

MICHELIN® AIR X® GENERAL AVIATION RADIAL TIRES

Michelin® AIR X® radials typically weigh 20–30% less than comparable bias tires, and they operate at cooler temperatures. Helps provide measurable fuel savings, more landings per tread, longer wear characteristics and a more stable contact patch than bias tires, as well as shorter turnaround times and reduced carcass fatigue. Extra Strong Carcass Michelin's carcass design helps restrict tire growth and the stretching of rubber. Durable cut-resistant tread includes deep skid depth and specially-designed circumferential grooves. Sidewall is optimized for both ozone and ultraviolet light protection which helps reduce ozone cracking in key areas of the tire. The Michelin® AIR X® casing is more flexible than casings used in bias tires.

Size	Ply	Speed (MPH)	Brand	Avg W (lbs)	Applications	Part No.	Price
14.5x5.5R6		225	Michelin Air X	8	"Falcon 20, 50, 200, 2000 (NLG)"	06-01382	---
14.5x5.5R6	10	225	Michelin Air X	8	Falcon 2000EX (NLG)	06-01383	---
16x4.4R8	10	210	Michelin Air X	10	"Cessna Sovereign, Citation X (NLG) - Gulfstream G150 (NLG)"	06-01384	---
16x4.4R8	12	190	Michelin Air X	10	Pilatus PC21 (NLG)	06-01385	---
16x6.0R6	12	225	Michelin Air X	11	Falcon F7X (NLG)	06-01387	---
17.5x5.75R8		225	Michelin Air X	11	Falcon 900 (NLG)	06-01388	---
20x4.4R12	14	190	Michelin Air X	14	Pilatus PC21 (MLG)	06-01390	---
23.5x8.0R12	14	190	Michelin Air X	24	"Cessna Citation Excel, XLS (MLG)"	06-01391	---
26x6.6R14	14	225	Michelin Air X	22	"Falcon 20, 50, 200, 2000, 2000EX, Gulfstream G200 (MLG)"	06-01392	---
26x6.6R14	14	225	Michelin Air X	22	Hawker 4000 (MLG)	06-01394	---
29x7.7R15		225	Michelin Air X	31	Falcon 900 (MLG)	06-01395	---
H32x10.5R16.5	16	225	Michelin Air X	44	Falcon F7X (MLG)	06-02581	---
1400 x 530R23	36	235	Michelin Air X	32	Airbus Industries	06-03036	---
1050 x 395R16	28	225	Michelin Air X	32	Falcon 900 (MLG)	06-03037	---
26X6.6R14	14	225	Michelin Air X	-	Cessna 700 Longitude	06-03496	---
16X4.4R8	10	225	Michelin Air X	-	Cessna 700 Longitude	06-03497	---

MICHELIN REGIONAL RADIAL AIRCRAFT TIRES AIR X

Size	Ply Rating	Speed (MPH)	Avg W (lbs)	Application	Part No.	Price
24X7.7R10	16	225	24	Embraer 190 (NLG)	06-01522	---
32X8.8R16	12	90	41	ATR 42 (MLG)	06-01523	---
H34X10.0R16	14	190	55	ATR 72 (MLG)	06-01524	---
H41X16.0R20	22	225	129	Embraer 190 (MLG)	06-01526	---
16x4.4R8	10	-	-	-	06-02996	---

MICHELIN REGIONAL BIAS AIRCRAFT TIRES

Size	Ply Rating	Speed (MPH)	Special	Avg W (lbs)	Application	Part No.	Price
17.5x6.25-6	8	190	-	11	Saab 340	06-01530	---
18x4.4	12	210	CH	13	Bombardier CRJ100/200	06-01406	---
18x4.4	10	210	CH	13	Fairchild Metro	06-01409	---
18x5.5	10	210	-	14	Embraer EMB120ER	06-01415	---
19.5x6.75-8	10	190	-	15	Fairchild Metro	06-01540	---
20.5x6.75-10	12	225	CH	19	Bombardier CRJ700/900	06-01541	---
24x7.7	14	190	-	25	Saab 340	06-01543	---
32x8.8	14	210	-	46	Saab 2000	06-01549	---
450x190-5	10	190	-	14	ATR 42, 72	06-01550	---
670x210-12	10	160	-	30	Embraer EMB110, 121, Xingu	06-01551	---
H29x9.0-15	16	210	-	45	Bombardier CRJ100/200	06-01552	---
H31x9.75-13	12	190	-	39	Bombardier DHC8 - 100/200	06-01554	---
H36x12.0-18	18	225	0	89	Bombardier CRJ700/900	06-01555	---

AIRCRAFT WHEEL BALANCER

The Aircraft Wheel Balancer uses the same static balancing method that is used to balance helicopter rotors. The patent pending design features a pivot point that is easily adjustable on-the-fly for maximum sensitivity, and includes bushings to accommodate both 1 1/4" and 1 1/2" axle sizes.
You now have an extremely portable wheel balancer that is small enough to fit in a tool box and does not require a bulky stand. The McFarlane design is more precise than other static balancing methods, and allows the wheel to be balanced while the bearings and seals are installed.
It's fast and easy! Due to the horizontal balancing and orientation, test weights can be temporarily set in place and easily adjusted while balancing. This eliminates the need to tape the test weights. The McFarlane wheel balancer is precision machined with a black, hard anodized finish, and comes in an oiled wooden case. This is a lifetime tool that fits almost all light aircraft wheel/tire assemblies.
Features:
• Adjustable pivot point for maximum sensitivity (Patent Pending) • More accurate than "bubble" or "axle and bearing" style balancers • Portable - small enough to fit in your tool box • Does not require removal of bearings or seals • High quality wooden case • Less than half the price of bulky axle and bearing type balancers

Description	Part No.	Price
Wheel Balancer for 1", 1-1/4", and 1-1/2" axles, including Cessna 300 and 400 Series tapered axles with 1-1/2" and 1" bearing bores.	05-12922	---
Tool129 Large Axle Bushing Kit	05-12923	---
Tool108 Large Axle Bushing Kit	05-12924	---
Aircraft Wheel Balancer Tool For 3/4 Axles	05-12921	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MICHELIN® TIRES – RETREAD TIRES

CONDOR AIRCRAFT TIRES

Strong sidewalls for exceptional durability, even after frequent hard landings. Tough treads compounded for high abrasion resistance, low heat generation and extra long life. Smooth liners to help prevent tube chafing. Full FAA qualification based on thorough static and dynamic testing. Each production tire is subject to final inspection and a check for weight and balance. Limited warranty guarantees that each Condor tire is free from any manufacturing defects. Condor tires are available in a variety of sizes for light to medium general aviation aircraft.

Size	Ply	Speed (MPH)	Brand	Avg W (lbs)	Part No.	Price
15x6.0-6	6	120	Condor	7	06-08040	---
29x11.0-10	10	160	Condor	31	06-01379	---
5.00-5	6	120	Condor	6	06-08010	---
5.00-5	4	120	Condor	6	06-08005	---
6.00-6	6	120	Condor	9	06-08020	---
6.00-6	8	120	Condor	9	06-08025	---
6.00-6	4	120	Condor	9	06-08015	---
6.50-10	8	120	Condor	16	06-00197	---
6.50-10	10	120	Condor	16	06-00198	---
6.50-8	8	120	Condor	13	06-00199	---
7.00-6	8	120	Condor	11	06-08035	---
7.00-6	6	120	Condor	11	06-08030	---
8.00-6	8	120	Condor	13	06-08050	---
8.00-6	6	120	Condor	13	06-08045	---
8.50-10	8	120	Condor	24	06-00201	---
8.50-10	10	120	Condor	24	06-01381	---

MICHELIN® PILOT® TIRES

The MICHELIN® PILOT® high performance bias tire is designed to be the best tire money can buy for propeller driven aircraft. Reflecting their proven history of developing ultra high performance tires, the MICHELIN PILOT tire offers the latest state-of-the-art features.

Size	Ply	Speed	Brand	Avg W (lbs)	Part No.	Price
15x6.0-6	6	160	PILOT	8.6	06-03067	---
5.00-5	6	160	PILOT	6.6	06-03068	---
6.50-8	8	160	PILOT	13.9	06-03492	---
8.50-10	10	160	PILOT	12.4	06-03493	---
6.00-6	6	160	PILOT	8.82	06-04296	---
6.00-6	8	160	PILOT	8.82	06-04297	---
18X5.5	8	190	PILOT	12.04	06-04689	---
18X5.5	10	190	PILOT	20.52	06-04688	---

LG

MICHELIN® AIRSTOP® AIRCRAFT INNER TUBES

MICHELIN® AIRSTOP® Aircraft Tubes provide long-lasting, dependable performance you can rely on in just about any operating condition. Because they're made with advanced materials, MICHELIN® AIRSTOP Aircraft Tubes offer extended air retention and can sustain temperatures as low as minus 50°C. So when you fly with MICHELIN® AIRSTOP Aircraft Tubes, you fly with confidence.

Size	Valve Stem	Avg W (lbs)	Part No.	Price
15x6.0-6	TR-20 / Straight	1	06-01373	---
22x8.0-8	TR-15 / Straight	3	06-01374	---
29x11.0-10	---	-	06-03360	---
5.00-5	TR-67A / Bent 90°	1	06-00019	---
6.00-6	TR-20 / Straight	1	06-00021	---
6.50-10	TR-25 / Straight	2	06-00849	---
6.50-8	TR-15 / Straight	2	06-00851	---
7.00-6	TR-20 / Straight	2	06-00848	---
7.00-8	TR-15 / Straight	2	06-00851	---
8.00-6	TR-20 / Straight	2	06-00848	---
8.50-10	TR-25 / Straight	3	06-00850	---
8.90-12.50	TR-15 / Straight	5	06-01378	---
355 x 150-4	Bent 90°	2	06-01487	---
7.00-6	TR-20 / Straight	2.5	06-00848	---
6.50-8	TR-15 / Straight	2.5	06-00851	---

RETREAD TIRES

500-5 10 ply high performance retreaded tires *Subject To Limited Core Availability*
Their premium retreads are produced by: Aero Wheel & Brake Service Corp. Aero WBS holds FAA certification to retread high speed aircraft tires up to 225 MPH.
Their sizes range from small piston engine aircraft through Regional Jet aircraft. 95% of the world's airlines depend on retreads not only for cost control, but for the extended life they provide over most new tires.

Size	Ply	Part No.	Price
600-6 Standard	6	06-01472	---
600-6 - Monster retread. Almost 12/32nds tread Depth	6	06-01473	---
600-6 - Elite Premium 2 Groove Top of the line. 2 Wide Hydro-Grooves	6	06-01474	---
15/600-6 Standard	6	06-01471	---
700-6 Standard	6	06-01475	---

Subject To Limited Core Availability
****Tire cores are of various makes and models****

SMOOTH TUNDRA FAA TSO TIRE

Aero Classic Tundra 22 x 8.50-6 4 Ply "Pillow Soft" 22 x 8.50-6 4 Ply stands 22 inches tall and weighs in "featherlight" at under 10 lbs. Compare that to a standard 850-6 6 Ply which average 15 lbs. each. The load rating is 1,600 lbs. per tire. Tube Type. FAA TSO
Tire .....P/N 06-02501 ..... ---
Tube .....P/N 06-00765 ..... ---

AERO CLASSIC TIRES & TUBES

AERO CLASSIC TIRES

Aero Classic is a proprietary line of over 50 aircraft tires and tubes made to meet or exceed the original specifications.

Size	Ply	Description	Part No.	Price
10/350-4	4	Aero Classic Premium	06-01238	---
10/350-4	6	Aero Classic Premium - HD	06-01239	---
11/400-5	8	Aero Classic Flat Rib Tire	06-01240	---
12.5-4.5	10	Aero Classic Channel	06-01241	---
15/600-6	6	Aero Classic Rib	06-03028	---
200-50	6	Aero Classic Rib	06-01243	---
280/250-4	4	Aero Classic Premium	06-01244	---
280/250-4	6	Aero Classic Premium - HD	06-01245	---
380/150-5	6	Aero Classic Rib	06-01249	---
400-6	6	Aero Classic Rib	06-00944	---
400-4	8	Aero Classic Rib	06-00844	---
420-150	4	Aero Classic Rib	06-01250	---
550-4	8	Twin Contact	06-03199	---
500-5	6	Aero Classic All Weather	06-01252	---
500-5	10	Aero Classic All Weather	06-01253	---
6 x 2		Aero Classic Solid Tailwheel	06-01044	---
600-6	4	Aero Classic All Weather	06-01254	---
600-6	6	Aero Classic All Weather	06-01255	---
700-7.5	6	Aero Classic All Weather	06-01258	---
700-8	6	Aero Classic Diamond Tread	06-01126	---
800x6	4	Aero Classic Tube Type / Tubeless Light Sport Tundra	06-03186	---
8.9 x 12.5	6	Aero Classic Diamond (Stearman)	06-01518	---
27	10	Aero Classic Rib Tread Tire	06-03539	---
30”	8	Aero Classic Rib	06-02984	---
10.00 SC	8	Aero Classic Channel Rib	06-02958	---
15/600-6		Aero Classic Butyl Easy Valve GL-1587	06-03185	---
15/600-6	10	Aero Classic Tubeless (Cirrus)	06-03043	---
1100/12	10	Air Tractor, Twin Beech and Twin Otter	06-03171	---

AERO CLASSIC RIB / SAWTOOTH TIRES

Size	Ply	Description	Part No.	Price
300-4	4	Rib Tire	06-00361	---
800-6	4	Sawtooth Tire	06-00366	---

AERO CLASSIC SMOOTH TUNDRA TIRES

Size	Ply	Description	Part No.	Price
8.50-6	4	22x8-50	06-02501	---
27.5x10-8	4	For 8” Wheels	06-02964	---
31x11-10	4	For 10” Wheels	06-02965	---

LEAKGUARD TUBES

EASY INFLATE Valve Makes Inflation Less Of A Chore. Valve Is Angled Toward You, Easier To Inflate, Easier To Check The Pressure. WILL NOT WORK WITH HUBCAPS “LEAKGUARD®” Inner Tubes Are Blended With A Proprietary Leak Resistant Compound For Less Maintenance.

Size	Valve	Model	Part No.	Price
Tube, Natural	TR-87	Tube, Leakguard Butyl	06-00761	---
1100-12	TR-13	Tube, Low Temp. Natural	06-01218	---
13/500-6	TR-87	Tube, Heavy Duty	06-03559	---
12.5-4.5	TR-67	Tube, Leakguard Butyl	06-00762	---
15/600-6	TR-20	Tube, Leakguard Butyl	06-00770	---
18-5.5	TR-15	Tube, Leakguard Butyl	06-01221	---
19.5/675-8	TR-15	Tube, Leakguard Butyl	06-01222	---
22/800-8	TR-15	Tube, Leakguard Butyl	06-01223	---
280/250-4	TR-87	Tube, Leakguard Butyl	06-00760	---
29/1100-10	TR-150	Tube, Leakguard Butyl	06-01224	---
29/1100-10	TR-25	Tube, Natural	06-03290	---
500-4	TR-67	Tube, Low Temp. Natural	06-01227	---
500-5	TR-67	Tube, Leakguard Butyl	06-00755	---
600-6	TR-20	Tube, Leakguard Butyl	06-00754	---
600-6	TR-15	Tube, Natural	06-03289	---
600-6.5	TR-67A	Tube, Low Temp Natural 90°	06-01229	---
6.50-10	TR-25	Tube, Natural	06-03181	---
6.50-10	TR-25	Tube, Butyl	06-00767	---
650/700-8	TR-15	Tube, Leakguard Butyl	06-00766	---
700/800-6	TR-20	Tube, Leakguard Butyl	06-00764	---
750-10	TR-25	Tube, Leakguard Butyl	06-00768	---
800-4	TR-12	Tube, Low Temp. Natural	06-00821	---
850-10	TR-25	Tube, Leakguard Butyl	06-00769	---
890-12.50	TR-25	Tube, Low Temp. Natural	06-01237	---
600-6	TR-87	Tube, Leakguard Butyl	06-03303	---

AERO CLASSIC TUBES

Aero Classic Tubes Tested to MIL-I-5014F

***Can be used with Tundra Tires.**

Size	Valve	Part No.	Price
11 x 4.00 x 6	TR-87	06-00716	---
10/350-4	TR-87	06-00761	---
400-6	TR-87	06-00945	---
380/150-5	TR-67A	06-02787	---
410/350-5	TR-87	06-00714	---
480/400-8	TR-87	06-00720	---
700/800-6	TR-87	06-00358	---
800-4	TR-12	06-00821	---
*850-6	TR-20	06-00765	---
*850-10	TR-20	06-01236	---
10.00 SC	Straight	06-02959	---
27” SC	Straight	06-02955	---

AZUSA 4 PLY TURF SAVER TIRE 16-650 X 8

Azusa Turf Saver Tire 16-650 x 8.4 ply.
Width: 6.4 in. OD:16.4
Tire 16-650x8..... P/N 06-01579..... ---
Tube #7118 16-650/750x8 .. P/N 06-01593..... ---

LG

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AERO CLASSIC TIRES & TUBES

HOMEBUILT TIRES & TUBES

These industrial tires and tube assemblies are used on a unique variety of homebuilt and ultralight aircraft airplanes. Sold as set of tire and tube only.

Dimensions	Ply	Part No.	Price
4.10 x 3.50 x 4	4 PLY	06-10830	---
3.40 x 3.00 x 5	4 PLY	06-10840	---
13.5 x 6.00 x 6	2 PLY	06-10870	---
4.80 x 4.00 x 8	4 PLY	06-10880	---
400x6 Bent Stem	--	06-00945	---
400X6 Straight Stem	--	06-00945	---
4.10 x 3.50 x 5	--	06-00714	---
11 x 400 x 5	--	06-00716	---
4.80 x 4.00 x 8	--	06-00720	---

***2008 tire superceded by Carlisle.**

11.400 X 5 TIRES & TUBES

This tire fills the size gap between the 5.00-5 aircraft tire and the 3.40-5 industrial tire. Looks like a scaled-down 5.00-5. Fits VariEze, KR's and most experimentals using 5" wheels. These tires require tubes. (tube-type). Formerly known as Lamb tires.

11.400-5 (6 Ply) Tire .....P/N 06-02952 ..... ---
11.400-5 (8 Ply) Tire .....P/N 06-01573 ..... ---
11.400-5 Tube.....P/N 15-04651 ..... ---
11.400-5 (4 Ply) Tire .....P/N 06-00362 ..... ---
11.400-5 (8 Ply) Tire .....P/N 06-01240 ..... ---

CST SLICK NOSE TIRE & TUBE 2.80X4

This tire has a smooth tread design suitable for professional grounds crew / maintenance machines as well as a wide variety of experimental aircraft, including utilization as a nose tire on the Long-EZE.

Specification:
Tire Size: 2.80/2.50-4
Rim Size (inch): 4X2.15
Ply Rating: 4
Overall Diameter (mm/in): 224.0 / 8.8
Overall Width (mm/in): 69 / 2.70
Tire Pressure (kpa/psi): 345 / 50
Max Load (kg/lbs): 134 / 295
Tread Depth (mm/in): 0.00 / 0.00
Slick Nose Tire .....P/N 06-02809 ..... ---
Tube for Slick Nose Tire 2.80 X 4 w/90° Bent Stem
P/N 06-02810 ..... ---

TIRES & TUBES FOR ULTRALIGHTS

TIRES

Part No.	Nom. Size	W	Dia.	Price
06-00361	300 x 4	3.2"	10.0"	---
06-00362	400 x 5	3.9"	10.5"	---
06-00365	15-600 X 6	5.9	14.8	---
06-00366	800 x 6	6.0"	16.3	---

TUBES

Part No.	Size	Angle Degree	Price
06-00761	300x4	90°	---
06-00355	3.50x5	0	---
06-00356	600x6	90°	---
06-00358	800x6	90°	---

RIBBED / FLAT PROFILE TIRES

Ribbed/Flat Profile Tires. Price per tire.
Note: These are not automotive tires, extra inflation precautions are required.

Size / Tire	Ply / Width	OD* / Innertube	Part No.	Price
11-400 X 5 / 7046	4 / 3.9"	10.5" / 7131	06-00362	---
11-400 X 5 / 7046-8	8 / 4"	10.8" / 7131	06-01573	---
13-500 X 6 / 7168	2 / 4.8"	12.6" / 7133	06-01568	---
410/350 x 6	4 / 4.0"	12.5 / 7039	06-00074	---
13-500 X 6 / 7018	4 / 4.8"	12.6" / 7133	06-01572	---
13-650 X 6 / 7031	4 / 6.0"	12.5" / 7141	06-01575	---
15-600 X 6 / 7169	2 / 5.9"	14.8" / 7125	06-01576	---
800 X 6 / 7007	4 / 8.0"	16.0" / 7138	06-00366	---
16-650 x 8 /7024-2	2 / 6.4"	16.4" / 7118	06-01609	---
16-650 X 8 / 7024-2	2 / 6.4"	16.4" / 7118	06-01579	---
18-850 X 8 / 7002	4 / 8.0"	16.5" / 7120	06-01580	---
18-950 X 8 / 7027	4 / 8.0"	17.4" / 7120	06-01581	---
13-500 x 6 / 7018	2 / 4.8"	12.6" / 7133	06-01568	---

TUBES FOR ULTRALIGHTS

Inner Tubes for most Azusa variety tires.

Tubes	Valve Stem	Part No.	Price
Tube #7133 410/350X6	90°	06-00075	---
Tube #7130 410/350 X 4	90°	06-00773	---
Tube #7132 410/350 X 5	90°	06-00775	---
Tube #7131 340/300 X 5	90°	06-00822	---
Tube #7129 280/250 X 4	90°	06-01288	---
Tube #7141 410/350X6	Straight	06-01590	---
Tube #7138 800 X 6	90°	06-01592	---
Tube #7118 16-650/750 X8	Straight	06-01593	---
Tube #7125 15-600 X 6	90°	15-04869	---
Tube #7116 11-600 X 5	90°	15-06300	---
Tube#7120 18-950 X 8	Straight	15-04731	---
Tube #7121 480/400 X 8	Straight	7121	---
Aero Classic Tube 400 X 6	90°	06-00945	---
Azusa Inner Tube 13-500 X 6	90°	06-01988	---

SAWTOOTH TREAD TIRES AND TUBES

Description	Ply / Width	OD	Part No.	Price
Tire 4.10/350 X 4	4 / 3.5"	10.5"	06-00772	---
Tire 4.10/350 X 5	4 / 3.5"	11.5"	06-00774	---
Tire 280/250 X 4	4 / 2.8"	8.8"	06-01287	---
Tire #7038 3.40 X 3.00 X 5	4 / 3.5"	10.5"	06-01655	---
Tire #7039 410/350X6	4 / 4"	12.5"	06-00074	---
Azusa Sawtooth 480/800 X 8	4 / 4.6"	16"	06-01948	---
4.10 x 3.50 x 5 Tire and Tube Kit	4 / 3.5"	---	06-01659	---
Tube #7130 410/350 X 4	4 / 3.5"	10.5"	06-00773	---
Tube #7132 410/350 X 5	4 / 3.5"	11.5"	06-00775	---
Tube #7129 280/250 X 4	4 / 2.8"	8.8"	06-01288	---
Tube #7131 340/300 X 5	4 / 3.5"	10.5"	06-00822	---
Tube #7133 410/350 X 6	4 / 4"	12.5"	06-00075	---
Tube #7121 480/400 X 8	4 / 4.6"	16.0"	7121	---

LG

MASTER BRAKE CYLINDERS

BERINGER REPAIR/OH KIT

Repair kits are available for the following BERINGER® parts: Hand master cylinder, Rudder pedal master cylinder, 2 and 3 piston brake caliper.
Includes all wear parts: pistons, seals, screws, grease, repair procedure.
Mineral Oil.....P/N 06-03550 ..... ---
DOT4 .....P/N 06-03551 ..... ---

CLEVELAND MASTER BRAKE CYLINDERS

MODEL 10-35

his model has a built-in reservoir and is used in production aircraft. Cast aluminum construction. 5/8" bore, 1.2" stroke, 0.36 cu. in. displacement. Outlet 1/8" NPT. Pin center length 8". Designed to mount on rudder pedal. Formerly Gerdes Model A-049.....P/N 10-35 ..... ---
Model 10-35 O-Ring Kit.....P/N 199-513 ..... ---

MODEL 10-20

Spring-loaded piston type assembly without reservoir. Simple design assures long troublefree service. Pin center length 7-1/2". Bore 9/16". Stroke 1.25". Weight: 10 oz. Used on Pitts Special, Acro-Sport and other homebuilts.
Model 10-20 & 10-19 O-ring kit.....P/N 06-10600 ..... ---

MODEL 10-19

Used on Pitts and other homebuilts. Similar to Model 10-20 except with ports aligned differently.
Model 10-20 & 10-19 O-ring kit.....P/N 06-10600 ..... ---

MODEL 10-5B

This Cleveland master brake cylinder has the same type construction as Model 10-20. Model 10-5B does not have a parking brake feature. 1/8" NPT ports, on opposite sides of cylinder, have AN823-4D fittings for use with 1/4" brake line. Pin center length 8". Wt. 9.5 oz. Bore 0.562". Stroke 1.25". Used on Piper PA25 and homebuilts. O-Ring kit is Cleveland part No. 199-502. Stroke 1.25". Used on Piper PA25 and homebuilts. O-Ring kit is Cleveland part No. 199-502.
Model 10-5B O-Ring kit (199-503) .....P/N 06-00708 ..... ---
Model 10-5 O-Ring kit (199-502).....P/N 06-10700 ..... ---
Model 10-22 .....P/N 05-13316 ..... ---
Model 10-30 .....P/N 05-13319 ..... ---
Model SSFA232-5 .....P/N 05-13328 ..... ---

MODEL 10-54

Spring-loaded piston type assembly without reservoir. Simple design assures long troublefree service. Pin center length 7.88". Bore 5/8". Stroke 1.62". Wt. .45 oz. Ports in-line, no fittings.
P/N 06-01214 ..... ---

CLEVELAND 199-512 MASTER CYLINDER REPAIR KIT

Elastomeric cure date required per ESP3620. This Service Kit will overhaul one 10-30, 10-30A, 10-30C, or 10-300 Master Cylinder Assembly. CM10-30 Overhaul Instructions for 10-30, 10-30A, 10-30C, & 10-300 ..... P/N 06-01130 ..... ---

VISIT OUR WEBSITE FOR MASTER CYLINDER SEAL KITS

MATCO MASTER CYLINDERS

MC-4 EXTERNAL RESERVOIR

MATCO MC-4 MASTER CYLINDER

MATCO mfg's MCMC-4 master cylinder uses a REMOTE reservoir. The MCMC-4 can be used in individual or dual brake applications. Buna-n o-rings are used in this assembly. Mil-H-5606 aircraft hydraulic fluid or compatible fluids are reccommended. DOT5 may be used but not DOT5.1 which contains glycol. DOT3 and DOT4 may not be used and will cause immediate damage to the seals. The MCMC-4 master cylinder measures 8.05 +-0.25 inches from end to end and 7.5 +-0.25 inches from mounting hole to mounting hole. A 0.625 inch diameter piston is used. Available stroke is approximately 1.388 inches and displacement is 0.43 cubic inches. The ports on all MATCO mfg master cylinders are 1/8 inch NPT (except the MC-4E). Has an adjustable clevis.

UNIVERSAL - Vertical or horizontal mounting with exterior reservoir.
MC-4.....P/N 06-11150 ..... ---
MC-4A (0.50" shorter than the MC-4) .....P/N 06-11100 ..... ---

MC-5 VERTICAL

MATCO MC-5 MASTER CYLINDER

MATCO mfg's MCMC-5 master cylinder uses an INTERNAL reservoir. The MCMC-5 can be used in individual or dual brake applications. Buna-n o-rings are used in this assembly. Mil-H-5606 aircraft hydraulic fluid or compatible fluids are reccommended. DOT5 may be used but not DOT5.1 which contains glycol. DOT3 and DOT4 may not be used and will cause immediate damage to the seals. The MCMC-5 master cylinder measures 8.25 inches from end to end and 7.7 inches from mounting hole to mounting hole. A 0.625 inch diameter piston is used. Available stroke is approximately 1.388 inches and displacement is 0.43 cubic inches. The ports on all MATCO mfg master cylinders are 1/8 inch NPT (except the MC-4E). The MC-5 has an adjustable clevis. The MC-5 can not be used in series with a second MC-5 or MC-5A

VERTICAL STYLE - Cylinder for vertical mounting, with steel housing and reservoir. MC-5.....P/N 06-11000 ..... ---
MC-5A (0.50" shorter than the MC-5) .....P/N 06-00375 ..... ---

MC-7 MASTER CYLINDER

The black anodized MC-6 is designed to attach to a 1" diameter control stick and function similar to a motorcycle brake. Designed for ultralight aircraft, it is completely self-adjustable as the lining wears and draws additional fluid from the cylinder. The 6:1 mechanical leverage allows the average pilot to generate 1,500 PSI in the system.
P/N 06-00014 ..... ---

MATCO MASTER CYLINDER REBUILD KITS

Buna-n orings are used in the original assembly, these rebuild kits are of same quality.

Description	Part Number	Price
MC-4 Rebuild Kit	06-02998	---
MC-4A Rebuild Kit	06-03003	---
MC-5 Rebuild Kit	06-02999	---
MC-5A Rebuild Kit	06-03002	---
MCMC-7/MCMC-7s Universal Rebuild Kit	06-03001	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MASTER BRAKE CYLINDERS

HEGAR MASTER CYLINDERS

5” SINGLE LEVER MASTER CYLINDER

5” single lever, foot operated. Designed for single braking.
1/2” Bore.....P/N 06-01277 ..... ---
5/8” Bore.....P/N 06-01671 ..... ---

5” DUAL LEVER MASTER CYLINDER

5" dual lever, foot operated. Designed for differential braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes.
1/2” Bore.....P/N 06-01278 ..... ---
5/8” Bore.....P/N 06-01611 ..... ---

7” SINGLE LEVER MASTER CYLINDER

7" single lever, hand operated. Designed for single braking. Comes in your choice of 1/2", and 5/8" bore sizes .....P/N 06-01279 ..... ---

7” DUAL LEVER MASTER CYLINDER

7" dual lever, hand operated. Designed for differential braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes .P/N 06-01280 ..... ---

STANDARD MASTER CYLINDER WITH 2 INCH ROUND PEDAL

16982 STANDARD master cylinder with 2” round pedal cylinder. STANDARD master cylinder with 2” round pedal. Can be used for hand or foot operation. Comes with mounting bracket as shown.
P/N 06-00328 ..... ---

MASTER CYLINDER PLUG

Master cylinder plug 1/8” NPT for Black Max.
P/N 06-01028 ..... ---

O-RING KIT FOR HEGAR BRAKES

Replacement o-ring for 6.375” or 6” brake caliper. Simply remove the piston, clean, lube and install the new o-ring for a perfect seal. Kit comes with two o-rings for one set of calipers (one aircraft).
P/N 15-05062 ..... ---

MASTER CYLINDER O-RING KIT

O-Ring Kit is for use with 5/8” bore cylinders in the 670, 671, 672, 673, and 674 Series. For use with MIL-H-5606 fluid only. O-Ring kit contains 1 ea of the following O-Rings: • Spruce P/N: AN6227B-3 (MS28775-008) • Spruce P/N: AN6227B-7 (MS28775-012). Spruce P/N: AN6227B-9 (MS28775-111) • Spruce P/N: AN6227B-10(MS28775-112)
P/N 06-00805 ..... ---

BONANZA & BARON BRAKE MASTER CYLINDER UPGRADE / REPAIR KIT

The Marsh Brothers Aviation Bonanza brake master cylinder upgrade kit contains all of the hardware to repair/upgrade your Baron brake master cylinder. Additionally, the kit also includes tooling to aid in the re-assembly. The piston rod seal (Thorseal®) provided is a Marsh Brothers Aviation proprietary lip seal design and is manufactured from a proprietary elastomeric polymer. The Marsh Brothers Aviation Thorseal® replaces both the OEM O-ring and rod wiper. The kit also includes installation instructions, instructions for continuing airworthiness and an authorized release certificate.
P/N 05-26909 ..... ---

PIPER PA32 / PA44 SERIES BRAKE MASTER CYLINDER SERVICE KIT

TCBM-PA32 brake master cylinder kit for the Piper PA28 and PA32 series with the Cleveland 10-30 / 455-968 master cylinder.
P/N 04-04069 ..... ---

BRAKE MASTER CYLINDER KIT FOR CESSNA 150 / 172 / 175 / 337

For Cessna 150 / 172 / 175 / 337 with 0541138 brakes PPBMC45 .....P/N 05-27526 ..... ---

BEECH BRAKE MASTER CYLINDER UPGRADE/ REPAIR KIT FOR KING AIR / 1900 / MODEL 99

Marsh Brothers’ Brake Master Cylinder upgrade & repair kit is a proactive solution that will eliminate the risk of failure due to leaks at the piston rod seal. By eliminating typical O-ring failure modes, this upgrade kit will increase mean time between unscheduled maintenance events keeping your aircraft in the air longer, while reducing maintenance costs associated with your brake master cylinder.
Installation of the Marsh Brothers brake master piston rod seal offers the opportunity to practice preventative maintenance, by eliminating the risks associated with the typical failure modes of traditional O-rings used in dynamic seal applications.
Kit contains all of the hardware to repair/upgrade your King Air brake master cylinder. Additionally, the kit also includes tooling to aid in the re-assembly. The piston rod seal (AeroLas™-Flex) provided is a Marsh Brothers Aviation proprietary lip seal design and is manufactured from a proprietary elastomeric polymer. Thorseal® replaces both the OEM O-ring and rod wiper. The kit also includes installation instructions, instructions for continuing airworthiness and an authorized release certificate.
Note: The Piston is not included in this kit.
Caution: Thorseal® is made from AeroLas™-Flex. AeroLas™-Flex is not compatible with phosphate ester hydraulic fluid, commercially known as Skydrol. Exposure to phosphate ester hydraulic fluid contamination will damage the seals.
Features: • Applicable to OEM P/N 90-380001-23, 90-380001-29, 90-380001-33 series brake master cylinders. • Piston Rod Lip Seal eliminates risk of typical failure modes associated with traditional O-rings used in dynamic applications. • The proprietary elastomeric polymer offers improved lower pressure sealing performance and overall cold weather performance. • Installation Tooling included - Seal compression ring, thread sleeve, and push tube. • Delivery documentation includes copies of all STC certificates and a Transport Canada Form One (authorized release certificate) to keep your logbook up-to-date.
P/N 05-26910 ..... ---

CIRRUS PIPER / MOONEY CLEVELAND BRAKE MASTER CYLINDER UPGRADE /REPAIR KIT

Note: The Piston is not included in this kit.
The Marsh Brothers Aviation Cirrus (Aerostar / Mooney) Cleveland Brake Master Cylinder upgrade kit contains all of the hardware to repair/upgrade your Mooney Cleveland Brake Master Cylinder. Additionally, the kit also includes tooling to aid in the re-assembly. The piston rod seal (AeroLas™-Flex) provided is a Marsh Brothers Aviation proprietary lip seal design and is manufactured from a proprietary elastomeric polymer. AeroLas™-Flex replaces both the OEM O-ring and rod wiper. The kit also includes installation instructions, instructions for continuing airworthiness and an authorized release certificate.
Caution:
Piston Rod Lip seal is made from Marsh Brothers proprietary material known as AeroLas™-Flex. AeroLas™-Flex is not compatible with phosphate ester hydraulic fluid, commercially known as Skydrol. Exposure to phosphate ester hydraulic fluid contamination will damage the seals.....P/N 05-27283 ..... ---

PIPER PA28 / PA32 SERIES HAND BRAKE MASTER CYLINDER KIT

TCBM-PA28 brake master cylinder kit for the Piper PA28 and PA32 series with the Cleveland 10-22 / 455-938 master cylinder.
P/N 04-04043 ..... ---

PIPER PA28 / PA32 / PA44-180 SERIES GAR-KENYON BRAKE MASTER CYLINDER KIT

Gar Kenyon 17000 TCBM-17000 brake master cylinder kit for the Piper PA28 and other models with the 17000 / 455-944 master cylinder.
P/N 04-04044 ..... ---

LG

CLEVELAND BRAKE LINE BLEEDER 87-5

A unique tool which simplifies the brake bleeding job. This brake line bleeder can be used to service all brake assemblies utilizing the bleeder screw assembly pictured above.....P/N 06-01202 ..... ---

ACS BRAKE BLEEDER ASSEMBLY

Universal brake bleeder fitting. Fits all standard brake systems. 1/8" male NPT Seat is brass. Bleeder screw is stainless steel.
P/N 11225 ..... --- Ea.

HOMEBUILDERS BRAKE BLEEDER

Quickly and easily bleed and flush your brakes without the aid of another person. By using a reverse flow system, combined with slow fluid flow, one person can fill an empty brake system in less than 15 minutes without having air in the brakes. This is a gravity fed brake bleeder and does not require compressed air. This system is so easy that once you start the process you can walk away; come back in 15 minutes later and the job is done. Commonly used for Cleveland & Matco brakes. Not FAA approved.....P/N 06-00120 ..... ---

BRAKE BLEED VALVES FOR CLEVELAND & MCCAULEY WHEELS

The bleeder valves consist of a bleeder needle, bleeder seat, needle cap, and in some cases an O-ring. Bleeder seats are precision manufactured from stainless steel for corrosion resistance, and cadmium plated to prevent galvanic corrosion with the magnesium housing. The bleeder needle is made from strong, heat treated 17-4 stainless steel. Two kits are required per aircraft. FAA Approved.

Model	Part No.	Price
MCBB-KT-1: (1) Bleeder Seat 081-00100, (1) Bleeder Needle 079-00300, (1) Needle Cap 183-00100	05-06974	---
MCBB-KT-2: (1) Bleeder Seat 081-00200, (1) Bleeder Needle 079-00300, (1) Needle Cap 183-00100, (1) O-Ring MS28775-012	05-06975	---
MCBB-KT-3: (1) Bleeder Seat 081-00500, (1) Bleeder Needle 079-00300, (1) Needle Cap 183-00100, (1) O-Ring MS28775-011	05-06976	---
MCBB-KT-4: (1) Bleeder Seat 081-00600, (1) Bleeder Needle 079-00300, (1) Needle Cap 183-00100, (1) O-Ring NAS1612-4A	05-06977	---
MCBB-KT-5: (1) Bleeder Seat 081-30169, (1) Bleeder Needle 079-00300, (1) Needle Cap 183-00100, (1) O-Ring MS28775-011	05-06978	---

AN4 / 10-32 BRAKE BLEEDER FITTING

Screw into brake assemblies with a typical 10-32 bleeder port and adapt to AN4 for use with a clear or braided hose (hose not included.) Hex is 7/16". .....P/N 06-04706 ..... ---

BLEEDER SCREW PLUG

Steel set screw with nylon flat point 1/4-28x3/8" Bleeder screw plug. .....P/N 06-01674 ..... ---

90 DEG COMPRESSION FITTING

90° Compression fitting 1/8" NPT x 1/8" Tube.
P/N 06-01673 ..... ---

ACS MODEL A-315 RESERVOIR

Machined from 6061-T6 billet and anodized for improved corrosion resistance. Available with choice of filler port location for firewall or floor mounting. Capacity 5 oz. Size: 2-1/4" dia. x 2-1/2" long. Wt: 7oz. Specify style.
Firewall Mounting.....P/N A-315..... ---
Floor Mounting.....P/N A-315-1..... ---

ACS MODEL A-600 RESERVOIR

Machined from 6061T6 billet. Cap is threaded into body and sealed with a Viton o-ring for easy filling and cleaning. Cap and body have 1/8" female threads. 1-3/8" dia. x 2-3/8" high. Capacity 1.8 oz. Can be threaded directly into master cylinder port. Two units required on most installations (one per master cylinder). Supplied with vented plug in cap and 1/8" NPT male fitting in body....P/N 06-00391 ..... --- ea.

ACS MODEL A-650 RESERVOIR

Machined from 6061T6 billet and anodized for improved corrosion resistance. Attaching bracket is included for firewall or other installation. Extra capacity of 70 ml. Supplied with vented plug in cap and outlet has a female 1/8 NPT thread."
P/N 06-01480 ..... ---

PETRO BRAKE BLEEDER

Clean and test carburetors and more. Bleed power steering systems. Bleed aircraft brakes. Pressure test fuel systems to 100 psi. Reverse, pressure, and vacuum bleed. Test automatic transmissions. Test pressure and vacuum sensors. Patented. Use for all petroleum fluids. **NOT for automotive brake fluid!** .....P/N 12-03214 ..... ---

MATCO BRAKE BLEEDER VALVE ASSEMBLY

Matco brake bleeder valve assembly MSCBBS(S)S. Latest generation bleeder assembly provides a seal and wrenching feature for either US or metric sizes.....P/N 06-02801 ..... ---

MATCO BRAKE FLUID RESERVOIR

This brake fluid reservoir from Matco features a clear plastic bowl for easy inspection of reservoir fluid. Furnished with pre-drilled aluminum flange for easy mounting.Small and compact, this reservoir mounts almost anywhere. Temperature limit is 250°F
Reservoir only .....P/N 06-11225 ..... ---
Reservoir Kit (includes reservoir, tubing, & fittings for installation)
P/N 06-11230 ..... ---

MATCO MCR-100A AEROBATIC REMOTE RESEVOIR

This Remote Reservoir is designed for both aerobatic or nonaerobatic flight and includes mount bracket, cap,check valve, and bowl. Reservoir has approximately 2 oz. volume and has valve incorporated for checked flow to the vent when inverted or negative g's. Reservoir includes 1/8 NPT adapter fitting and seal for connection to poly bowl and easy open top.....P/N 06-01662 ..... ---

GROVE BRAKE FLUID RESERVOIRS

067-050 - Grove remote reservoirs are quality machined from 6061 billet. Top is held in place with a snap ring with O-ring seal. Supplied with vented 1/8" NPT cap plug. Anodized for corrosion resistance. Normal installation requires two (one for each master cylinder). Supplied with 1/8" NPT Fitting. Attaches directly to the master cylinder. Holds 1.10 fluid ounces. 1.98" High. 1.38" Dia. 1.5 oz
P/N 06-00818 ..... ---

067-067 - Grove remote reservoirs are quality machined from 6061 billet. Top is held in place with a snap ring with O-ring seal. Supplied with vented 1/8" NPT cap plug. Anodized for corrosion resistance. Attaches to firewall or other remote location with integral 10-32 tapped holes. 1/8" Female NPT thread at side of reservoir and hold 3.25 fluid ounces. 2.63" High. 2.00" Dia. 3.3 oz .....P/N 06-01744 ..... ---

067-054 - Grove remote reservoirs are quality machined from 6061 billet. Top is held in place with a snap ring with O-ring seal. Supplied with vented 1/8" NPT cap plug. Anodized for corrosion resistance. Attaches to firewall or other remote location. Adequate capacity to serve both master cylinders. 1/8" Female NPT thread at bottom of reservoir and hold 3.6 fluid ounces. 2.75" High. 1.75" Dia. 3.6 oz
P/N 06-00819 ..... ---

067-065 - Grove remote reservoirs are quality machined from 6061 billet. Top is held in place with a snap ring with O-ring seal. Supplied with vented 1/8" NPT cap plug. Anodized for corrosion resistance. Attaches to firewall or other remote location with integral 10-32 tapped holes. 1/8" Female NPT thread at bottom of reservoir and hold 3.38 fluid ounces. 2.75" High. 2.00" Dia. 3.3 oz.
P/N 06-01743 ..... ---

AIRCRAFT BRAKE BLEEDER AC250

This brake bleeder is designed for general aviation aircraft. It has a pressure gauge and brake caliper connection with shutoff valve. Designed to bleed Goodrich and Cleveland brake systems. For use with Mil-5606 hydraulic fluid.....P/N 06-04772 ..... ---

BRAKE BLEEDER AC100 TYPE II

The AC100 type II is constructed from a stainless-steel tank and larger fluid capacity than the AC250 model. It has been designed to effectively bleed the brakes and remove any air bubbles that may be present in the system. It is compatible with a wide range of aircraft models and makes and is sure to provide you with years of reliable service. For use with Mil-5606/ Royco 756 hydraulic fluid. Kit comes with instruction manual and spare seals.....P/N 06-04773 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AEROSHELL 41 MIL-PRF-5606H HYDRAULIC FLUID

Mineral oil based "super clean" hydraulic fluid for use with brake and hydraulic systems with synthetic rubber seals. Meets specifications MIL-PRF-5606H. Colored red. Note: Containers are cans and are non-resealable.

Quart ..... P/N 09-27000-QT ..... ---
Case of 24 Quarts. ..... P/N 09-27000-1 ..... ---
Gallon ..... P/N 09-27100 ..... ---
Case of 6 Gallons ..... P/N 09-27100-2 ..... ---
55 Gallon ..... P/N 09-27100-55 ..... ---

AEROSHELL 41 HYDRAULIC FLUID MIL-H-5606A

MIL-H-5606A Mineral oil based hydraulic fluid for use with brake and hydraulic systems with synthetic rubber seals. Colored red.

Pint with screw cap ..... P/N 09-27110 ..... ---
Quart with screw cap ..... P/N 09-27000 ..... ---

AEROSHELL 31 MIL-PRF-83282D HYDRAULIC FLUID

A synthetic hydrocarbon hydraulic fluid with greatly improved fire resistance characteristics when compared with conventional petroleum products. Specially developed base stock that provides a relatively high flash point, excellent low temperature properties, and good oxidation and thermal stability. In addition, additives are incorporated to further enhance stability and lubricity.

Gallon ..... P/N 08-14635-1 ..... ---
Case of 6 Gallons..... P/N 08-14635..... ---

PHILLIPS 66 X/C MIL-PRF-5606H HYDRAULIC FLUID

A mineral-based hydraulic oil with low temperature characteristics capable of operating over a wide range of temperatures. Can be used in both aviation and non-aviation systems with synthetic rubber components, but should not be used in systems that incorporate natural rubber.

Quart ..... P/N 09-00774 ..... ---
Case of 24 Quarts ..... P/N 09-00773 ..... ---
Gallon ..... P/N 08-13851-1 ..... ---
Case of 6 Gallons ..... P/N 08-13851 ..... ---
55 Gallon Drum ..... P/N 08-13852 ..... ---

ANDEROL ROYCO 756 HYDRAULIC FLUID

MIL-PRF-5606H - ROYCO 756 is a red-dyed, mineral oil based hydraulic fluid developed for the severe duty demands of aerospace and industrial service. USES: ROYCO 756 is designed for use in aircraft, missiles, auto pilots, shock absorbers, cherry pickers, boom trucks, robotics, and auto wreckers requiring all - weather performance. ROYCO 756 can be used in unpressurized systems operating at temperature ranges from -54 to 90°CC (-65 to 195°CF) and in pressurized systems from -54 to 135°CC (-65 to 275°CF) at pressures up to 3000 p.s.i.

Size	Part No.	Price	Size	Part No.	Price
Quart	08-12080-1	---	Case of Quarts	08-12080	---
Gallon	08-12119-1	---	Case of Gallons	08-12119	---
5 Gallon	08-12121	---	55 Gallons	08-15970	---

DOT4 BRAKE FLUID

The racing grade has a minimum boiling point of 600°F which assures fade-free operation under the most severe use • Exceeds current SAE J1703, J1S K2233 and U.S. and FMVSS116 DOT 3 & 4 specifications • Recommended for all U.S., U.K., Japanese and European motor cycles • Anti-vapor lock formula • Mixes with other DOT 3 and DOT 4 brake fluids ..... P/N 06-01497 ..... ---

SKYDROL LOW DENSITY HYDRAULIC FLUID LD-4

Skydrol LD-4 features low density, excellent thermal stability, valve erosion prevention, and deposit control.

Quart ..... P/N 08-12239 ..... ---
Gallon ..... P/N 08-12241 ..... ---
5 Gallon ..... P/N 08-12240 ..... ---

SKYDROL FIRE RESISTANT HYDRAULIC FLUID

500B-4 is the most worker friendly of the aviation phosphate esters; it is least irritating to skin and less prone to form mists. Quart ..... P/N 08-12463 ..... ---

SKYDROL TYPE V HYDRAULIC FLUID

Skydrol 5 offers higher temperature capability than Type IV fluids, the lowest density, and better paint compatibility.

Quart ..... P/N 08-12242 ..... ---

BERINGER PARKING BRAKE VALVE

Features: • Lightweight parking brake valve, Aluminum anodized • Available for mineral-based fluid like MIL-5606 or synthetic DOT4 fluid • Machined from billet on CNC • Max. input pressure: 1450 PSI

Description	Part No.	Price
Beringer parking brake valve for DOT4 brake fluid, dash-3 fittings (3/8X24), red anodizing color.	06-01107	---
Beringer parking brake valve for mineral-based fluid MIL-H-5606, dash-4 fittings (7/16x20), blue anodizing color.	06-01108	---

SKYDROL HYDRAULIC ANALYSIS KIT

Skydrol Hydraulic Test Kit. Testing includes chlorine content, elemental contamination, Karl Fisher water, specific gravity, total acid number, viscosity, particle count, and wear metals....P/N 08-13479 ..... ---

MATCO PARKING BRAKE VALVE

Ideal for installation in a wide variety of homebuilt aircraft applications. The arm actuates the valve in approximately a 45 degree arc allowing for ease of installation. In-line installation can be used in conjunction with either a single or dual parking brake system setup. Body is made from 6061 anodized aluminum for lasting durability.....P/N 06-17200 ..... ---

MATCO PARKING BRAKE VALVE REBUILD KIT

Universal seal rebuild kit for the PVPV-1, PVPV-D and PVPV-S park brake valves. Kit includes seals and poppets with O-ring already installed. Kit is for one PVPV-1 or PVPV-D or two PVPV-S.

P/N 06-04702 ..... ---

MATCO SINGLE SIDED PARKING BRAKE VALVE

Light weight, and easy in-line installation The overall dimensions of this product are a slim 2.3" X 0.75" X 0.75".

P/N 06-01267 ..... ---

SCOTT TYPE PARKING 4500-A1 BRAKE VALVES

A fine quality valve for applications in parking brake systems, helicopter rotor braking systems, pneumatic pressure controls and other hydraulic uses. Molded rubber valve seat designed for use with MIL-H-5606BB petroleum base hydraulic fluid. Maximum working pressure. Mounting holes extend through entire body. 1/8" NPT ports. Valve assembly for Piper and Stinson. Visit our website for a complete application guide.

Model No.	Port A / Port B	Part No.	Price
4500-A1	1/8 ANPT	06-00393	---
4500S-A1	7/16-20 NF	06-00949	---

MANUAL PARKING BRAKE VALVE

Miniature inline hydraulic manually operated ball valve. Fits in the bottom of the Master cylinder. Just pull the brake handle and hold the pressure and turn the lever on the ball valve. Let go of the handle and the ball valve holds the pressure until you release the lever back. 1/8"NPT Female x 1/8"NPT Male Chrome Plated Brass Valve 1.7" overall length. P/N 06-00971 ..... ---

CLEVELAND PARKING BRAKE VALVE

Aluminum valve as used in production aircraft with Model A-110 master cylinders for dual brake installations. Complete w/AN flare fittings. P/N 60-5 ..... ---

GROVE INLINE PARKING BRAKE VALVE

Innovative design allows control lever to be attached in any of four positions as well as on either side of valve body. Internal poppet valves insure easy, secure operation. Body is drilled for mounting with two 3/16" bolts. Valve body dimensions: 1.5"x2.0"x0.75". Control arm has 45° of travel. Max operating pressure: 1,200 psi. For use with MIL-H-5606 Hydraulic Fluid. Weight: 0.32 lbs. Side or top inlet ports: 1/8"NPT * Outlet ports: 1/8" Female NPT or -4 Flare.

Part No.	Inlet	Outlet	Price
06-01260	Top	1/8" NPT	---
06-01261	Side	1/8" NPT	---
06-01262	Top	-4 Flare	---
06-01263	Side	-4 Flare	---

BRAKE BLEEDER COUPLER

This adapter will couple firmly to the 079-00300 (FC-6446) type bleeder screw used in Cleveland and Matco brake systems so that you can properly bleed and charge the aircraft's brake lines and cylinder. The other end connects to any hose having a 1/4 NPT male thread. It will work with all bleeder tanks (such as our model 225 Economy Bleeder Tank) or other pressurized fluid systems. It locks firmly in place around the nipple and forms a high pressure seal, so there is absolutely no chance of leaking fluid. P/N 12-05623 ..... ---

LG

SHOCK CORDS - SHOCK RINGS

MIL FRESH SHOCK RINGS

An endless elastic ring composed of multiple strands of natural rubber, wound into a circular skein. Braided cover is high grade yarn. Manufactured to meet specification MIL-C-5651B, Type II. Shock cord is used in landing gear to reduce shock transmitted to fuselage while landing and taxiing and on other shock mounting applications. Color coded to insure fresh stock.

Ring No.	Ring Size* (In.)	Test (Lb.)	Aircraft	# Req.	Part No.	Price Ea.
9044	9/16x4-1/2	400	Hatz Bi-Plane	4	9044	---
9090	9/16x9	425	Taylorcraft B	4	9090	---
9010HD	9/16x10	475	Taylorcraft BC	4	06-00829	---
9010HDX	9/16x10		Taylorcraft F-19/ F-21	4	06-01132	---
1080	5/8x8	750	Stolp Starduster, Rans S4/5	4	1080	---
1080HD	5/8x8	900	PA-16, PA-18	4	06-00823	---
			PA-20, PA-22, PA-25	4		
1174	11/16x7-1/2	730	Piper J-2, Early J-3, J-5	4	06-00756	---
1192	11/16x9-1/4	750	Taylorcraft D	4	1192	---
11104	11/16x10-1/2	750	Taylorcraft L-2	4	11104	---
1280	3/4x8	750	Stolp Starduster Too	4	1280	---
1280-HD	3/4x8	950	Piper J-3 (S/N8277 up),	4	06-00826	---
			PA-11, PA-12, PA-14	4		
			PA-18 (thru S/N18-3013) Rans	4		
			S10 Acrosport, Pitts S-2			
8097	1/2x9-7/8	400	PA-24, PA-30	2	8097	---
1286	3/4x8-3/4	750	Aeronca (S/N330 up)	4	1286	---
1286HD	3/4x8-3/4	950	Skybolt	6	06-00827	---
1380	13/16x8	1160	PA-20 (before 1952) Pitts (S-1, S-1C, S-1S) Husky, Acrosport 2, Rans S9	2 4	1380	---
1380HD	13/16 x 8	1460	Rans 57	1	06-00828	---

SEE OUR WEBSITE FOR MORE APPLICATIONS INFORMATION.

***1st dimension is cross section; 2nd dimension is inside dia. of ring. HD - Heavy Duty, higher test rings. ***6 Rings for J-5. HDX - Extra Heavy Duty.**

CW (Cold Weather) shock rings available on Special Order basis. Prices are approx. twice that of standard shock rings. Add "-CW" to standard part number when ordering.

SHOCK CORD FASTENERS

These cone spring hooks and locking rings are used as terminal fasteners. Insert cord through small end of cone. Apply and crimp locking ring about 1/2" from end of cord, pull cord back until locking ring contacts inside of fastener. Cut ends of cord may be sealed by dipping in rubber cement. Set includes cord and locking ring.

Shock Cord Size	Fastener P/N	Price/Set
3/8"	06-12900	---
1/2"	06-13000	---

SHOCK ABSORBER COIL RINGS

High pressure springs fabricated from alloy steel for top performance and long spring life. The Claude Gray shock absorber design has been service-proven on the EAA Biplane, Miniplane, Pitts and others. Over 1,000 pair in use. Length 6", 2" O.D., 1" I.D.. Wt. 4-1/2 lbs. per pair. Spring deflection 0.7" per 1,000 lb. force.

Single spring .....P/N 06-01367 ..... ---

BOGERT AVIATION PA-24/30 BUNGEE TOOL

• Lower damage risk with the right tool • Complete control of bungee shock cords coming off • Complete control of bungee shock cords going on • E-Z instructions with detailed drawings • Safe landings depend on new cords every few years. Comanche Owners: 30 minutes to change bungees.....P/N 06-00419 ..... ---

BOGERT AVIATION COMANCHE GEAR RETRACTION TOOLS

Retract landing gear using only retraction tool & torque wrench.

Straight - Fits: PA-24, SN 24-1 through 24-4782 & 24-4784 through 24-4803 .....P/N 12-02095 ..... ---

Angled - Fits: All PA-30's, PA24, Serial number 24-4783, 24-4804 & up P/N 12-02094 ..... ---

SHOCK CORD

MIL-C-5651D TYPE I SHOCK CORD: This cord has a double cover of glazed cotton over natural cotton. It has 3 markers: 2 for the year and 1 for the quarter.

The certifiable cord sizes of Type I are: 1/4", 3/8", 1/2", 5/8"

TYPE 1

Dia. (In.)	Part No.	Price/Ft. Less Than 100 Ft.	100 Ft.
1/8	06-12100	---	---
1/4	06-12200	---	---
5/16	06-12300	---	---
3/8	06-12400	---	---
1/2	06-12500	---	---
5/8	06-12600	---	---

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

STRUT SEAL KITS

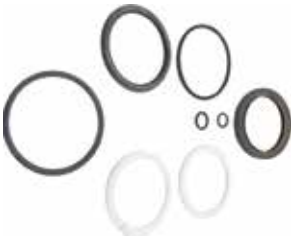
TRIMCRAFT STRUT SEAL KITS FOR CESSNA

Cessna Nose Strut Seal Kit Fits: 150, 152, 172, 172RG, 175, 182, R182, 205, 206, 210, P210, T210, 310 - 3500 thru 310Q thru 1160, 320, 336, and 337.....P/N 04-03468 ..... ---

TRIMCRAFT STRUT SEAL KITS FOR PIPER

Kits contain Mil-Spec & Industry Standard Seals and Components required for various Piper Strut application. Seal kit for nose or main strut for Piper Apache/Aztec.....P/N 06-00126 ..... ---
Strut seal kit for Piper PA-24 main gear .....P/N 06-00127 ..... ---
Strut seal kit for Piper PA24 nose gear.....P/N 06-00128 ..... ---
Strut seal kit for Piper PA30 main gear.....P/N 06-00129 ..... ---
Strut seal kit for Piper PA30 nose gear.....P/N 06-00130 ..... ---
Main Strut seal kit for Piper PA28 140, 150, 151, 160, 161, 180, 181, 235, & PA32-260, 300.....P/N 06-03975 ..... ---
Nose strut seal kit for PA28-140, 150, 151, 160, 161,180, 181, 235, & PA32-260, 300 .....P/N 06-03965 ..... ---
Main strut seal kit for PA28R & PA32R-300, 301, 301T, & PA32RT-300, 300T .....P/N 06-03980 ..... ---
Nose strut seal kit for PA28R & PA32R-300, 301, 301T, & PA32RT-300.....P/N 06-03970 ..... ---
Nose strut seal kit for PA PA22 Series .....P/N 06-01370 ..... ---
Piper PA34 Strut Seal Kit for main or nose for Seneca I, Seneca II & Seminole 180/180T .....P/N 05-03603 ..... ---

TRIMCRAFT STRUT SEAL KITS FOR BEECHCRAFT



Main strut seal kit for Beechcraft, fits B-33, F-33, V-35B, & 36, A36, G-36, A36TC, B36TC (s/n A0001 thru A9999 & E0001 thru E9999)
P/N 06-02802 ..... ---
Nose Strut Seal Kit for Beechcraft.....P/N 06-02803 ..... ---
Note: These kits may fit other models. It DOES NOT fit earlier model Bonanza & Debonair.
Main Strut Seal Kit. Kit contains Mil-Spec & Industry Standard Seals and Components required for Beech 55 Strut application.
P/N 05-12280 ..... ---

CESSNA 310 NOSE STRUT SERVICE KIT

Trimcraft Nose Strut Kit. Contains all the O-rings, scraper, valve core and cap to repack the struts on the 310R retract model.
Aircraft Eligibility: Cessna 310R all S/N.....P/N 04-04255 ..... ---

J & M CESSNA NOSE STRUTS

For Cessna models 150, 152, 172, 175, 182, R182, 205, 206, 210, T210, P210, 310-310Q, 320, 336, & 337.
Includes: 5 O-Rings, 2 Back-Up Rings, Scraper Ring .....P/N 06-03960 ..... ---

J&M PIPER STRUT SEAL KITS FOR PIPER

Kits contain Mil-Spec & Industry Standard Seals and Components required for various Piper Strut application.

Description	Part No.	Price
PA23 Nose or Main Strut Seal Kit for Apache or Aztec Kit includes seals for one strut	05-22254	---
PA24 Main Strut Seal Kit for 180 & 250 Commanche	05-22255	---
PA24 Nose Strut Seal Kit for 180 & 250 Commanche	05-22256	---
PA30 & PA39 Main Strut Seal Kit for Twin Commanche	05-22257	---
PA30 & PA39 Nose Strut Seal Kit for Twin Commanche	05-22258	---
PA28 & PA32 Main Strut Seal Kit for 140, 150, 151, 160, 161, 180, 181, 235 & PA32-260, 300	05-22259	---
PA28 & PA32 Nose Strut Seal Kit for 140, 150, 151, 160, 161, 180, 181, 235 & PA32-260, 300	05-22260	---
Main Strut Seal Kit for PA28R & PA32R-300, 301, 301T & PA32RT-300, 300T	05-22261	---
Nose Strut Seal Kit for PA28R & PA32R-300, 301, 301T & PA32RT-300, 300T	05-22262	---
PA22 Nose Strut Seal Kit for Colt & Tri-Pacer SN: 22-1 thru 22-7642 & 22-8000 thru 22-9000	05-22263	---
PA34 Strut Seal Kit for main or nose for Seneca I, Seneca II & Seminole 180/180T	05-22264	---

J&M STRUT SEAL KITS FOR BEECHCRAFT

Description	Part No.	Price
Main strut seal kit, fits B-33, F-33, V-35B, & 36, A36, G-36, A36TC, B36TC (s/n A0001 thru A9999 & E0001 thru E9999)	05-22266	---
Nose Strut Seal Kit for Beechcraft	05-22267	---

MCFARLANE CESSNA NOSE STRUT SEAL KIT

Australian Nose Strut Seal Kit Solves the Problem! FAA-PMA. Features a doublee edge ("X" style) seal that will not twist and leak. It solves the continuous leak and re-service problems with the Cessna nose strut, allowing you to go years without servicing.
• FAA-PMA direct replacement for Cessna P/N SK172-1F • Also includes AN901-5A gasket • Improved lock rings are made of 304 stainless steel for better corrosion resistance.....P/N 05-03602 ..... ---
Quad Ring 1100 .....P/N 05-22285 ..... ---

GRANVILLE'S STRUT SEAL

Landing gear strut packing seals shrink due to fluctuating weather conditions and age. This specially engineered hydraulic chemical additive leaves a protective coating on the strut shaft and allows the seal to expand to its normal size. It will stop strut leaks and is an excellent lubricant and corrosion preventative. Application is fast and easy - any owner or pilot can do the job in minutes. FAA approved.
Single-Strut Kit .....P/N 06-13300 ..... ---
3-Strut Kit (Single Engine).....P/N 06-13400 ..... ---
3-Strut Kit (Medium Twins).....P/N 06-13500 ..... ---
Large Twin kit (16 oz0.....P/N 06-00110 ..... ---
Granville Strut Additive (Pt.).....P/N 06-00111 ..... ---
Granville Strut Additive (Quart) .....P/N 06-03048 ..... ---
Granville Strut Additive (1/2 Gallon) .....P/N 06-03049 ..... ---
Granville Strut Additive (Gallon) .....P/N 06-03050 ..... ---

LG

HOMEBUILDERS MAIN GEAR AXLES
ACS AXLES - BOLT-ON TYPE

500X5 AXLE - Machined from 2024T3 aluminum. Gold anodized per specification MIL-A-8625C, Type II for improved corrosion resistance. Length 5-3/4". Mounting bolt pattern is four equally spaced 1/4" dia. holes on 1-15/16" dia. bolt circle. Thread size: 1-1/4 x 16.
P/N 11701 .....--- **Ea.**

500X5 AXLE - For 199-152 heavy duty discs (as used in Cozy). Same as #11701 axles above except 6" long and without undercut between bearings.....P/N 11701-2 ..... ---

SPACERS FOR 500 X 5 AXLE - 2 required per axle when used with Cleveland wheels. Not required on 600x6 size.
P/N 11716 .....--- **Ea.**

EXTRA WIDE SPACER FOR 500X5 AXLE - 7/16" wide as used on 199-152 heavy duty discs. 1 required per axle with P/N 11716 (Use Axle # 11701-2).....P/N 11716-2 .....--- **Ea.**

ACS AXLES - WELD-ON TYPE

500 X 5 AXLE - For use on welded type gear. Fabricated from 1-1/4" O.D. x .120 wall 4130N steel tubing. Precision ground for proper bearing fit. One end threaded 1-1/4 x 12 for round axle nut. 12" long.
P/N 11703-1 .....--- **Ea.**

600 X 6 AXLE - For use on welded type gear. Fabricated from 1-1/2" O.D. x .120 wall 4130N steel tubing. Precision ground for proper bearing fit. One end threaded 1-1/2 x 16 for round axle nut. 12" long.
P/N 11704-1 .....--- **Ea.**

06-11800
06-11900

AXLE NUTS

Castle type nuts manufactured to MIL Specification MS21025 using 4140 steel. Mild steel nuts are not acceptable for use on certificated aircraft. 1-1/4" dia. nuts for 500 x 5 axles, 1-1/2" dia. nuts for 600 x 6 axles.

Nut Type		Thread	Axle Type	Part No.	Price
Matco	Castle	5/8-18	Matco	06-11815	---
---	Castle	1-1/4-16	Cessna	06-11800	---
---	Castle	1-1/2-16	Cessna	06-11900	---
ACS	Round	1-1/4-12	Piper	11725	---
ACS	Round	1-1/2-16	Piper	11726	---
Grove	Round	1-1/4-12	Piper	06-00937	---

TAPER SHIMS

For wheel alignment. Ideal setting is zero toe-in and zero camber at normal operating weight. Shims may be rotated to any one of four positions to obtain desired result.

0441157-1

Axle Size	Shim Part No.	Approx. correction value Camber	Toe-In	Price Each
500x5	0441157-1	1/2°	0.06"	---
	0441157-3	1°	0.12"	---
	0441157-2	2°	0.006"	---
600x6	0441139-5	1/2°	0.12"	---
	0441139-6	1°	0.20-0.25"	---
	0541111-2	2-1/2°	0.10-0.25"	---

AXLE WITH WOODRUFF KEY

Axle 5/8" x 8" with Woodruff Key (Cotter Pin hole) .....P/N 06-01004 ..... ---

GROVE AXLES

For 500X5 Wheels with Wheel Pant Stub • Diameter: 1.25" • Material: Solid 2024-T3 aluminum w/anodized finish • Hole Pattern: 1-15/16" bolt circle; 1/4"dia. holes. Requires (2) P/N5710 spacers per axle.
P/N 06-00601 ..... ---

For 600X6 Wheels with Wheel Pant Stub • Diameter: 1.5" • Material: Solid 2024-T3 aluminum w/anodized finish • Hole Pattern: 2.25" bolt circle; (2) 2-15/16" dia. bolt holes & (2) 2-3/8" dia. bolt holes.
P/N 06-00602..... ---

GROVE AXLE SPACER 5712

I.D.: 1.25", O.D.: 1.438", Thickness: 0.360", Used with 5015 axle, 1 (one) required per axle.
P/N 06-01504 ..... ---

GROVE AXLE SPACER 5710

I.D: 1-1/4" • O.D. 1-3/4", Thickness: 1/4", Used with 500x5 axle, 2 required per axle.....P/N 06-00852 ..... ---

GROVE ALUMINUM WHEEL PANT AXLE NUTS

Model	Axle	Thread	Part No.	Price
5512	500x5	1-1/4x16	06-01677	---
5513	600x6	1-1/2x16	06-01678	---
--	400x4	3/4x16	06-01742	---

CESSNA MAIN GEAR AXLE

For use on flat spring landing gear, Cessna models 180, 182, 185 and 206. It is highly recommended to replace aluminum axles with these much stronger steel axles when operating on rough conditions, with larger wheels or on skis.
FAA-PMA approved.
Steel .....P/N 05-00481 ..... ---
Titanium.....P/N 05-12478 ..... ---

TLGW TITANIUM MAIN LANDING GEAR

Landing Gear Works has refined and perfected the titanium main spring landing gear for Skywagon 180 and 185 aircraft. Titanium main landing gear does not fatigue or lose its spring like standard steel main landing gear! Heavy Duty: P/N XP0741001K (weight: 23lbs per leg) Light Duty: P/N XP0741001KLD (weight: 21lbs per leg) Includes STC Paperwork!

Description	Part No.	Price
The Landing Gear Works Main Landing Gear Set Titanium XP0741001K	05-32376	---
The Landing Gear Works Main Landing Gear Set Ld Titanium XP0741001Kld	05-32377	---

SEE OUR WEBSITE FOR APPLICABLE AIRCRAFT LIST
SEE OUR WEBSITE FOR COMPLETE TLGW PRODUCT LIST

GROVE HOMEBUILT AIRCRAFT LANDING GEAR

These custom landing gear are fabricated from aircraft grade 2024T3 aluminum. After cutting and milling, they are annealed to "O" condition for bending, and then heat-treated to "T6" condition for exceptional strength and durability. Top quality landing gear at exceptional pricing.

Aircraft Type	Part No.	Price
KITFOX - Mod 3&4 TD	06-04025	---
PITTS - S1	06-03915	---
S1-11B SuperStinker	06-04035	---
Baby Lakes	06-04070	---
VP1 - 1100B Free Standing No Cables	06-04040	---
Zenair CH701	06-00058	---

NOTE: Request landing gear layout sheet when placing order or quotation Request for custom landing gear to verify correct gear for application.

NOTE: ALL GROVE AIRCRAFT LANDING GEAR IS NON-CANCELLABLE / NON-RETURNABLE.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RUDDER PEDALS

ACS RUDDER PEDALS

Professionally made black powder coated aluminum pedals as used in production aircraft. Approved by Rutan Aircraft Factory for use on the Defiant. 5"W x 6"L. Wt. 3/4 lb. ea.
P/N 06-00392 ..... **--- Pr.**

ACS RUDDER PEDAL/ TOE BRAKE ASSEMBLY

For use with any standard master brake cylinders. 2-piece design. Completely finished, assembled, ready for installation. Wt. 2 lbs. each.
Set of 2 .....P/N 11350 ..... **---**

AZUSA STEEL PEDAL SET

This rugged pedal set (left & right) features built-in stops, (4) 1/4" pre-drilled holes to allow adjustable rod connections and a 5/16"-18 x 1-3/4" long mounting bolt. W t 7oz. ea. length 6.5'.....P/N 06-00107 .....**--- /set**

RUDDER PEDAL RETURN SPRINGS

4-1/2" Long .....P/N 01-27300 ..... **--- ea.**

DELUXE HOMEBUILDERS / RUDDER PEDAL KITS

Designed for single or two place tandem seating experimental aircraft. The pedals are aluminum castings and the hinge bracket and pedal pivot pin are constructed from 4130 steel tubing. The pedals have an attachment point (1/4" hole) at the top to link the toe brake from the rear cockpit to the front cockpit only 2 master cylinders required). To mount the pedals the builder will need 2 steel bushings 3/4" long to weld through the fuselage and a tube to put through the bushings and the bottom tube of the hinge bracket. Will work well in almost any homebuilt aircraft.
Single Place Kit .....P/N 06-17015 ..... ---
Two Place Tandem Kit .....P/N 06-17025 ..... ---

VANS RV RUDDER PEDAL EXTENSIONS

These very high-quality parts add considerable structure, feel and comfort to the Vans Rudder pedals. Pedals are cut from very strong and tough, type 6061 T-6 high tensile aircraft grade aluminum extrusion, with a very durable clear anodized finish. Pedals measure 4.5" X 1.5" X .75", are very light, 5 oz. each, feature simple and easy installation with only one bolt, and are very inexpensive as well.

Model	Part Number	Price
RV6	05-21798	---
RV7	05-21799	---
RV8	05-21801	---

Model	Part Number	Price
RV9	05-21802	---
RV10	05-21803	---
RV14	05-21804	---

PIPER AEROSTAR LANDING GEAR CONTACTING BUMPERS

These are the contacting bumpers for the landing gear upstops and downstops on the Piper Aerostar. It's not unusual for them to be in pretty bad shape. When they're worn out, there is risk of damage as the landing gear extends and retracts beyond its normal limits, imposing concentrated loads on the airframe which are normally cushioned and distributed by the bumpers. Our bumpers are made from a tough, high-tech polymer that should last as long as the airframe. They will never crack or bulge. And they're easy to install! Package of 2.
Upper Blue Bumper M1018 .....P/N 05-14952 ..... ---
Lower Red Bumpers M1019 .....P/N 05-14953 ..... ---

RUDDER ARMS

SCOTT TYPE

Scott Type Rudder Arm. Cast aluminum brackets with reinforced chain mounting holes. 3/4" diameter post between mounting holes. FAA/PMA'd
P/N 1140 ..... ---

HOMEBUILDERS MODEL

ame style as Scott model. 3/4" dia. post and 3/4" arm (width)
FAA/PMA'd.....P/N 06-15900 ..... ---

RUDDER ARM 1" SHANK

Originally designed for J-3 through PA-18 series, but adapts nicely to most homebuilts.
Code 1.....P/N 06-01045 ..... ---

SCOTT TYPE TAILWHEEL ARM ASSEMBLY

FAA/PMA approved; for the Scott 3250 8-inch tailwheel assembly.
P/N 3214T ..... ---

HOMEBUILDERS TAIL SKID

The skid is 1" wide and 6" long. It is made out of 3/16" thick 347 Stainless Steel. It will accept up to a 1-3/4" O.D. 3/8" thread tie down ring. This skid will eliminate bending of the tie down ring and damage to the tail. This a must have for training aircraft. The skid is currently mounted on several experimental and certified aircraft .....P/N 05-04383 ..... ---

CESSNA 120 / 140-140A TAILWHEEL BRACKET

FAA/PMA Approved for Cessna 120, 140, & 140A. Cessna ID 0412139-1.
P/N 05-06994 ..... ---

SCOTT TYPE BRAKE BRACKET - RH

These economical brake brackets fit the popular Scott brake master cylinders and are cast from 356-6 aluminum. These brackets are not PMA'd and are recommended for experimental aircraft only. Scott Type 1220 Brake Bracket RH
P/N 1220 ..... ---

TLGW 10 INCH TAILWHEEL

Landing Gear Works 10" tailwheel assembly that tracks better and has less chance for a blowout! Maintain 65-70 PSI and it will serve you well for years! This tailwheel rides better over the gaps in the tarmac and is the preferred choice for landings on rough fields as well as standard airport runways.

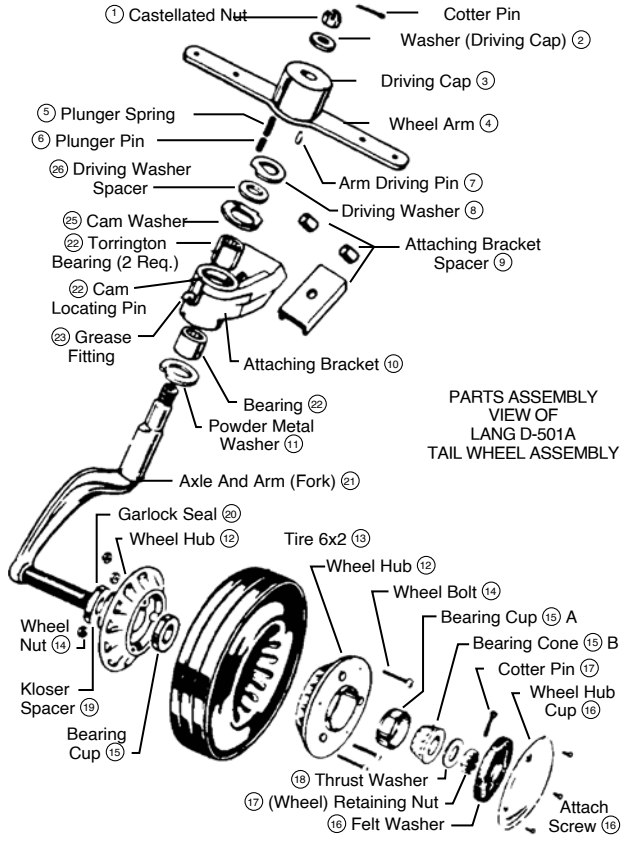
Tailwheel forks and hubs are made from new aluminum alloys that meet FAA current production requirements and makes for extended service life. Some of the internal parts are also manufactured by LGW, and most are interchangeable with the original Scott Aviation parts. This makes replacement and repairs simple and quick.

Description		Part No.	Price
10" Tailwheel Assembly XPM1-6	Cessna 180/185	05-32400	---
10" Tailwheel Assembly XPM1-7	Cessna 180/185	05-32401	---
10" Tailwheel Assembly XPM1-8	Cessna 180/185	05-32402	---
10" Tailwheel Assembly XPM1-5-1	Cessna 188	05-32397	---
10" Tailwheel Assembly XPM1-5-2	Cessna 188	05-32398	---
10" Tailwheel Assembly XPM1-5-5	Cessna 188	05-32399	---

SEE OUR WEBSITE FOR CESSNA 180/185 ELIGIBILITY CHART

LG

LANG TAILWHEEL PARTS



Ref #	Lang No.	Qty	Part No.	Price
1&2	A-501,A521	1	06-13601	---
3,5,6,7	06-13637, 06-13656, A-513	1	06-01570	---
4	A-504	1	06-13604	---
8	A-509	1	06-13608	---
9	A-512, A560-1, A560-2	1	06-13609	---
11	A-516	1	06-13611	---
12	A-544, A545	2	06-13800	---
13	A-590	1	06-15800	---
14	A-548, A549	3	06-13614	---
15A	A-518	2	13287	---
15B	A-519	2	13286	---
16	A-522, A-523 & A-524	1	06-13600	---
17	A-521	1	06-13617	---
18	A-531	1	06-13618	---
19	A-546	1	06-13619	---
20	A-547	1	06-13620	---
21	C-503	1	06-13621	---
22	A-554	2	06-13622	---
23	A-525	1	06-13623	---
25	A-511	1	06-13625	---
26	A-510	1	06-13626	---
--	(1) C501, (1) A508, (1) A525, (2) A554	1	06-03155	---

Hub Assembly (2 #12 Hub Halves, 3 #14 bolts & Nuts)
P/N 06-13800 ..... ---
Hub Assembly with Bearing Cups.....P/N 06-13900 ..... ---
Wheel Assembly (Hub Assembly & 2 Bearing Cups & Cones)
P/N 06-14000 ..... ---
Wheel & Tire Ass'y (Wheel Ass'y & 6 x 2 Tire)
P/N 06-14100 ..... ---

TAILWHEEL SPRING NON-PMA PART

ABI-3239-1 Scott 3200 tailwheel spring.
Non-PMA part .....P/N 05-27212 ..... ---

THE LANG TAILWHEELASSEMBLY

THE ONLY TAILWHEEL TO MEET THE EXACTING REQUIREMENTS OF THE CHRISTEN EAGLES - The Lang Model D-501-A Tailwheel is full swivel, fully automatic and steerable. It is impossible to throw the Lang tailwheel into full swivel unintentionally regardless of rough field conditions or cross winds. This tailwheel will not lock in any position except steerable, but releases easily when plane is pushed sideways or backwards by hand or when maneuvering plane on ground using brakes. The Lang tailwheel fits both 1-1/4" and 1-1/2" leaf springs. Drop forged, heat-treated 4130 chromoly steel fork of single arm type. The cast aluminum wheel is grease packed for 100 hours service. The 6 x 2.00 solid rubber tire has interior wire reinforcement for added strength. Manufactured by ACS Products Co. under FAA-PMA. The Lang tailwheel is FAA-approved for installation on many light aircraft including Aeronca 7AC, Piper J-3 and PA-12, Cessna 140, Luscombe and Taylorcraft. Comparable to Scott Model 2000. Wt. 6 Lbs. .....P/N 06-00398 ..... ---

SHIMMY DAMPENER 3400 STRAIGHT ASSEMBLY

Compact and lightweight assembly that hydraulically dampens oscillations in the tailwheel to eliminate tailwheel shimmy and stabilize your tailwheel. **Features**: • Smoother landings • Reduced aircraft wear and tear • No headache installation & maintenance • Includes STC • Not compatible with the T3 Tailwheel Suspension • A long pawl tailwheel assembly
ABI Straight .....P/N 05-27237 ..... ---
ABI Bent .....P/N 05-27235 ..... ---
Scott Straight.....P/N 05-27238 ..... ---
Scott Bent.....P/N 05-27236 ..... ---

SHIMMY DAMPENER 3450-23 STRAIGHT ASSEMBLY

Compact and lightweight assembly that hydraulically dampens oscillations in the tailwheel to eliminate tailwheel shimmy and stabilize your tailwheel. **Features**: • Smoother landings • Reduced aircraft wear and tear • No headache installation & maintenance • Includes STC • Not compatible with the T3 Tailwheel Suspension • A long pawl tailwheel assembly.....P/N 05-27239 ..... ---

REPLACEMENT WHEELS FOR HOMEBUILDER'S SPECIAL TAILWHEELS

Replacement wheels with tires & bearings for the Homebuilder's tailwheels shown above.
4x1.5x5/8 BB Natural .. P/N 06-03500..... ---
4x1.5x3/8 BB Natural .. P/N 06-00067..... ---
6x2.125x5/8 Balloon* .. P/N 06-03600..... ---
*This is a solid Tire

LONGLIFE SEALED BALL BEARINGS

These high quality bearings are superior to standard bearings furnished with homebuilder tailwheels ..... P/N 06-00060 ..---
***Can only be used on single arm 4" and 6" tailwheels.**

RE-BUILD KIT FOR 3400 SERIES TAILWHEEL

Re-Build Kit for 3400 Series Tailwheel
P/N 05-27228 ..... ---

TAILWHEEL BOLT FOR ABI 3200 / 3224A / 3200B SERIES

Bracket assembly is compatible with: 3200, 3224A, and 3200B series .....P/N 05-27215 ..... ---

SPACER PLATE FOR ABI 3400B FORK

Spacer Plate; Compatible only on a ABI F2 3400B fork. 3 screws that hold this in place are MS24693S272.
P/N 05-27216 ..... ---

AIRFRAME ALASKA LONG PAWL

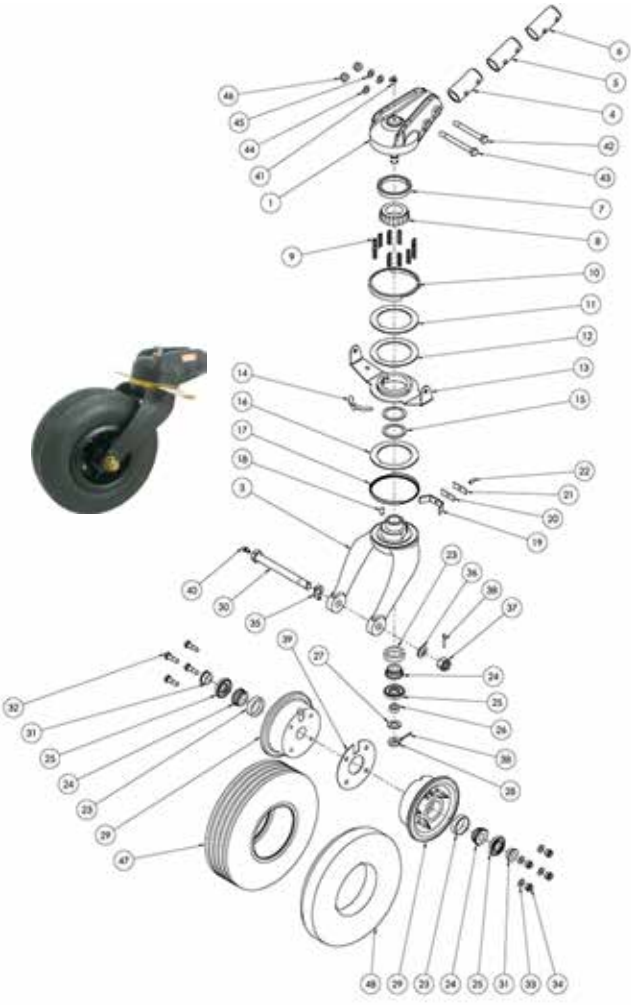
Compatible with 3200, 3224A, 3200-3, 3200B, 3200-3B, 3400, 3425-5, 3425-13, 3450(T), 3450-3, 3450-17, 3450-23, and 3400B series.
ABI-3200 AND ABI-3224A tailwheel assemblies and parts are direct replacements for the Scott 3200/3200A. Our assemblies and parts are FAA-PMA'd products and have STC's for well over 35 makes of Aircraft available .....P/N 05-27213 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ALASKAN BUSHWHEEL INC. 3200/3400 TAILWHEEL ASSEMBLY

The Alaskan Bushwheel Tailwheel Assembly is an FAA-PMA (PMA # PQ1557NM, Supplement 9) replacement part for the Scott 3200 assembly and parts contained therein, includes Heavy Duty Steering Arm. One Year Warranty.

ABI-3200 Standard Tailwheel Assembly(3214 Standard Arm) ..... P/N 06-00836 .....---
ABI-3200-3 direct replacement for the Scott 3200-3..... P/N 06-01313 .....---
ABI-3224A Standard Tailwheel Assembly(3214T Heavy Duty Arm) ..... P/N 06-00722 .....---
ABI-3200B Tailwheel Tundra Assembly..... P/N 06-00723 .....---
ABI-3400 8" Bent Steering Arm Tailwheel ..... P/N 06-02914 .....---
ABI-350 10" Bent Steering Arm Tailwheel ..... P/N 06-02915 .....---
1154.R Baby Bushwheel..... P/N 05-15215 .....---
ABI-2600A 4" wheel halves with 2.80x2:50x4 tire & tube mounted and ready to go. ..... P/N 06-01190 .....---



*** Parts not included in ABI-3200/ABI-3224A Assembly**
**** Parts not included in ABI-3200B Assembly**
****** Parts not included in assemblies.**
Parts in red are not sold individually.

#	ABI P/N	Description	Part No.	Price
-----	ABI-3400-00	8" Tailwheel Assembly	06-01147	---
-----	ABI-3450-00	10" Tailwheel Assembly	06-01148	---
-----	ABI-3450-23 (S)	2-Bolt, 10" Tailwheel Assembly Staight Arm	06-01149	---
-----	ABI-3450-23 (T)	2-Bolt, 10" Tailwheel Assembly Bent Arm	06-01741	---
-----	ABI-3400B	Bushwheel Tailwheel Assembly	06-01150	---
1	ABI-3412MK	Tailwheel Head	06-01151	---
1A	ABI-3450-23-M	2-Bolt Tailwheel Head	06-01152	---
2	ABI-3423-01**	10" Fork	06-01153	---
2A	ABI-3413-01**	8" Fork	06-01154	---
2B	ABI-F2******	Wide Fork	06-01155	---
4	ABI-3412-S.875***	7/8" Head Spacer	06-01156	---
5	ABI-3412-S.937***	15/16" Head Spacer	06-01157	---
6	ABI-3412-S1.00***	1" Head Spacer	06-01158	---
7	8231	Bearing Race	06-01162	--
8	8118	Bearing	06-01163	---
9	ABI-3233-00	Compression Spring	06-00728	---
10	ABI-3411-02	Dust Cap, Upper	06-01166	---
10A	ABI-3411-07*	Dust Cap, Upper (For Locking Tailwheels)	06-01167	---
11	ABI-3408-00	Thrust Washer	06-01168	---
12	ABI-3408-01	.036 Fiber Thrust Washer	06-01170	---
12A	ABI-3479-01*	Fiber Thrust Washer	06-01169	---
13	ABI-3410-03	Steering Arm Bent (Bent)****	06-01171	---
13A	ABI-3410-05	Straight Steering Arm	06-01172	---
14	ABI-3219-00	Short Pawl	06-00732	---
15	ABI-3407-00	Spacer	06-01164	---
16	ABI-3408-02	.065 Fiber Thrust Washer	06-01173	---
17	ABI-3411-02	Dust Cap, Lower	06-01174	---
17A	ABI-3411-05*	Dust Cap, Lower (For Locking Tailwheels)	06-01175	---
18	ABI-232-046	Pin	06-00749	---
19	ABI-3432-00	Compression Spring	05-15222	---
20	ABI-3258-01	Spacer	06-00739	---
21	ABI-3258-00	Spacer	06-00738	---
22	ABI-3257-00	Pin	06-00740	---
23	A4138	Bearing Race	06-01183	---
24	A4050	Bearing	05-15223	---
25	ABI-1863	Grease Retainer	06-00746	---
26	ABI-2504-01	Spacer	06-01178	---
27	AN960-816	Washer (Axle)	05-15224	---
28	AN320-8	Nut	05-15225	---
29	ABI-3244-00	Wheel Half	06-00745	---
29A	ABI-S2	Wide Spacer (ABI-3400-B Tailwheels)	06-00744	---
30	ABI-3236-C2**	10" Axle Bolt	06-01186	---
30A	ABI-872	Wide Fork Axle Bolt (ABI-3400-B Tailwheels)	06-00741	---
31	ABI-3227-00	Spacer	06-00743	---
32	AN4-7A	Wheel Bolt	05-15226	---
32A	AN4-34A	Wide Wheel Bolt (ABI-3400-B Tailwheels)	05-15227	---
33	AN960-416	Washer (Wheel)	05-15228	---
35	ABI-3225-00	Tab Lock Washer	06-00742	---
36	AN960-816L	Washer (Axle)	05-15232	---
37	AN310-8	Nut	05-15233	---
38	MS246655-283	Cotter Pin	05-15234	---
39	ABI-2602	Gasket	06-00750	---
40	T7201	Zerk Fitting	06-00753	---
41	T7208	Zerk Fitting	06-01184	---
44	AN960-516	Washer (Wheel)	05-15236	---
45	AN960-516L	Washer	05-15237	---
46	MS21044-N5	Locknut	05-15238	---
47	280X2.50X6	8" Tire (Scott/ABI-3400 Tailwheels)	05-15239	---
47A	10X3.50-4	10" Tire (Scott/ABI-3425 and 3450 Tailwheels)	05-15240	---
47B	1154.R	Baby Bushwheel (ABI-3400-B Tailwheels)	05-15241	---
48A	280X2.50X4TUBE	8" Tube	05-15242	---
-	3400MBK-01	Miscellaneous Mounting Bolt Kit	05-15243	---

ALASKAN BUSHWHEEL 3400 TAILWHEEL

Item	ABI Part No.	Description	Part No.	Price
-----	ABI-3400-00	8" Tailwheel Assembly	06-01147	---
-----	ABI-3450-00	10" Tailwheel Assembly	06-01148	---
-----	ABI-3450-23 (S)	2-Bolt, 10" Tailwheel Assy Straight Arm	06-01149	---
-----	ABI-3450-23 (T)	2-Bolt, 10" Tailwheel Assy Bent Arm	06-01741	---
-----	ABI-3400B	Bushwheel Tailwheel Assembly	06-01150	---
1	ABI-3412M	Tailwheel Head	06-01151	---
1A	ABI-3450-23-M	2-Bolt Tailwheel Head	06-01152	---
2	ABI-3423-01**	10" Fork	06-01153	---
2A	ABI-3413-01**	8" Fork	06-01154	---
2B	ABI-F2******	Wide Fork	06-01155	---
3	ABI-3412-S.875***	7/8" Head Spacer	06-01156	---
4	ABI-3412-S.937***	15/16" Head Spacer	06-01157	---
5	ABI-3412-S1.00***	1" Head Spacer	06-01158	---

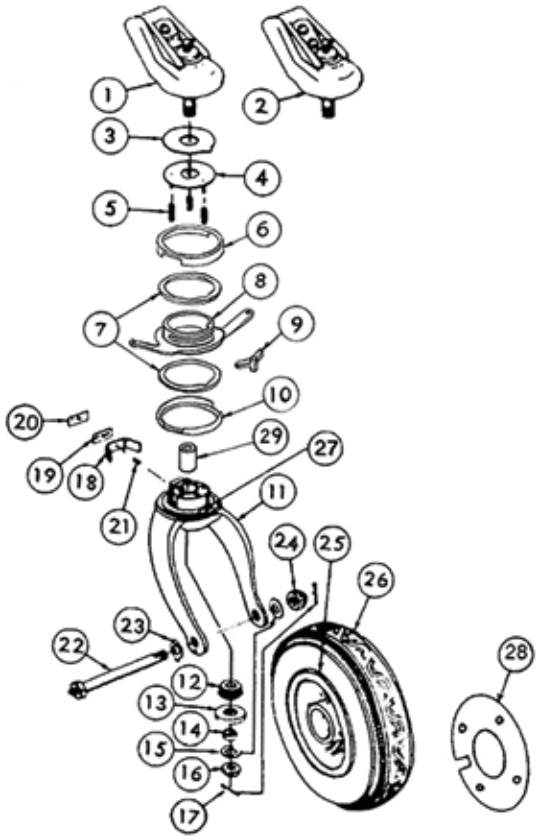
Item	ABI Part No.	Description	Part No.	Price
6	ABI-3412-02	Head Bolt	06-01159	---
6A	ABI-3412-05	Head Bolt	06-01160	---
8	8231	Bearing Race	06-01162	---
9	8118	Bearing	06-01163	---
10	ABI-3407-00	Spacer	06-01164	---
11	ABI-3219-00	PAW	06-00732	---
12	ABI-3411-02	Dust Cap, Upper	06-01166	---
12A	ABI-3411-07*	Dust Cap, Upper	06-01167	---
13	ABI-3408-00	Thrust Washer	06-01168	---
13A	ABI-3479-01*	Fiber Thrust Washer	06-01169	---
14	ABI-3408-01	.036 Fiber Thrust Washer	06-01170	---
15	ABI-3410-03	Steering Arm Bent (Bent)****	06-01171	---

SEE WWW.AIRCRAFTSPRUCE.COM FOR DIAGRAM AND ITEM #.

3200/3400 SERIES TAILWHEEL FORK CONVERSION KITS

Use this kit to modify an existing Scott or Alaskan Bushwheel Series Tailwheel for use with an Alaskan Baby Bushwheel. This is a less expensive option than purchasing a whole new tailwheel.

3400 Kit with Tire.....P/N 05-22009 ..... ---
3400 Kit without Tire.....P/N 05-15210 ..... ---
3200 Kit with Tire.....P/N 06-03531 ..... ---
3200 Kit without Tire.....P/N 06-03144 ..... ---



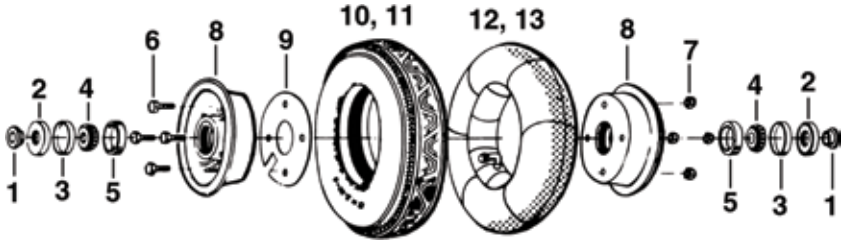
REPLACEMENT PARTS FOR SCOTT 3200 TAILWHEEL

The Scott Model 3200 tailwheel, with 8" pneumatic tire, is designed to give years of trouble-free service. The swivel mechanism is sealed to keep out water, sand and mud. Grease fittings are provided for lubrication. Bracket fits 1-3/4" wide tailwheel leaf spring. Wt. 7-1/2 lbs. Attaching hardware not furnished.

Item No.	Description	No Req'd	Part No.	Price
2	Bracket Assembly ABI-800613	1	06-01291	---
3	Washer, Thrust	1	3207	---
4	Thrust Plate Assembly	1	3234	---
5	Spring, Compression	5	3233	---
6	Dust Cap	1	3235-2	---
7	Washer, Thrust	2	3206	---
8	Arm Assembly	1	3214	---
9	Pawl	1	3219	---
10	Dust Cap	1	3235-1	---
11	Fork Assembly, ABI-3244K	1	06-00736	---
12	Cone Bearing	1	13286	---
13	Retainer, Grease	1	1863	---
14	Spacer	1	2504-1	---
15	Washer, AN960-816	2	AN960-816	---
16	Nut, Shear AN320-8	1	AN320-8	---
17	Pin, Cotter	2	18482	---
18	Spring	1	3222	---
19	Spacer	1	3258	---
20	Spacer	1	3258-1	---
21	Pin	1	3257	---
22	Axle Ass'y	1	3236	---
23	Washer, Lock	1	3225	---
24	Nut, Castle, AN310-8	1	AN310-8	---
25	Wheel Assembly, ABI-3244-00		06-00745	---
27	Pin, 3226	1	3226	---
28	Gasket	1	2602	---
29	Bushing	1	3205	---

SCOTT MODEL 2600 8-INCH PNEUMATIC TIRE

The Model 2600 8" pneumatic tire and wheel assembly is used on the 3200, 3250, 3400 and 3425 Series tailwheel assemblies. The Model 3245-1 10" pneumatic tire and wheel assembly is used on the 3425 & 3450 Series tailwheel assemblies. Total Wt. 3 lbs. 13 oz.



Item No.	Part No.	Description	8" Assembly P/N 2600	10" Assembly P/N 3245-1	Price Each
1	3227	Spacer	2	2	---
2	1863	Retainer, Grease	2	2	---
3	1862	Spacer	2	2	---
4	13286	Bearing Cone (A-4050)	2	2	---
5	13287	Bearing Cup (A-4138)	2	2	---
6	18438	Bolt	4	4	---
7	33478-202	Nut, Self Locking	4	4	---
9	2602	Gasket	1	1	---
10	3228	8" Tire	1		---
11	06-08100	10" Tire		1	---
12	3223	8" Tube	1		---
13	3247	10" Tube		1	---

SCOTT LEAF SPRING SPACERS AND SPRING KITS

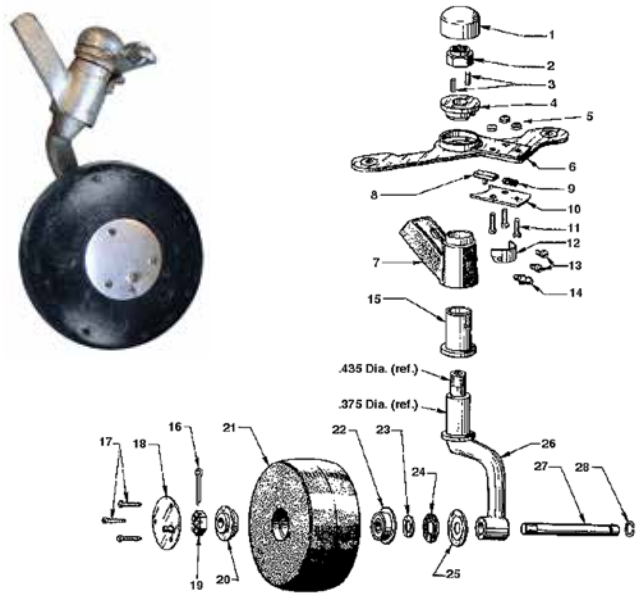
3241-3S - Spacer Only..... P/N 06-00406 .....---
3243-2 - Spacer Only..... P/N 06-00407 .....---
3241-1S - Adapter Kit - Converts 1-3/4" 3216 (1 3/4") bracket to 1-1/2" width. ..... P/N 06-00408 .....---
3239 - Heavy Duty Tension Spring Kit..... P/N 06-00008 .....---
3243-01 - Converts 1-3/4" Bracket to 1-1/4" Bracket. Used on 3200 Tailwheel..... P/N 06-00421 .....---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MAULE MODEL SFSA SOLID TAILWHEELS

The SFSA tailwheel assembly is of the same type construction as the SFS-P8A unit except for the tire, which is a 6.50 x 2.50 soft rubber solid tire. Spring connector kit not furnished with this model. FAA-approved. Wt. 6 lbs.

SFSA-1-4, for 1-1/4" Spring ..... P/N 06-16710 ..... ---
SFSA-1-2, for 1-1/2" Spring ..... P/N 06-16720 ..... ---
Replacement Tire & Bearings ..... P/N TW-23A ..... ---

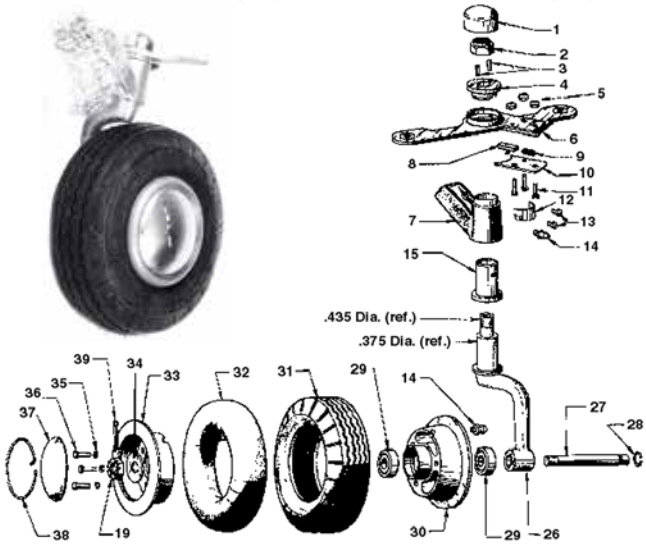


MAULE MODEL SFS-P8A PNEUMATIC TAILWHEELS

An inexpensive 8" pneumatic tailwheel assembly which is steerable and full swiveling, with new improved single arm shimmy-free fork. All working parts heat treated. FAA approved. Wt. 7 lbs.

Maule Tailwheel #SFS-P8A-1-4* ..... P/N 06-16730 ..... ---
Maule Tailwheel #SFS-P8A-1-2** ..... P/N 06-16740 ..... ---
Specialty Tire 2.80/2.50-4 4 Ply ..... P/N 06-08000 ..... ---
Specialty Tube 280 X 250 X 4 ..... P/N 06-08101 ..... ---

* - For 1-1/4" Leafspring ** - For 1-1/2" Leafspring



MAULE P8B TUNDRA TAILWHEEL

A new tailwheel with 8" pneumatic tire designed and engineered to meet the toughest conditions on all types of airports and landing fields.

SFS-P8B-1-4 ..... For 1-1/4" Leaf Spring Width ..... P/N 06-16750 ..... ---
SFS-P8B-1-2 ..... For 1-1/2" Leaf Spring Width ..... P/N 06-16760 ..... ---
SFS-P8B-3-4 ..... For 1-3/4" Leaf Spring Width ..... P/N 06-16770 ..... ---

MAULE TAILWHEEL PARTS LIST

Old Style (Pre 1976) has 3/4" Fork Shaft & New Style (Post 1976) has 7/8" Fork Shaft		Old Style SFS-P8 Pneumatic or SFS Solid Rubber	New Style SFS-P8A Pneumatic and SFSA Solid Rubber	Qty. Req.	Price Each
#	Description	Part Number	Part Number		
1	Cover Cap	TW-18 (1-1/4")	TW-63A (1-3/8")	1	---
2	Nut	AN364-720A or	AN364-720A or	1	---
		AN365-720	AN365-720		
3	Lock Ring Pin	TW-17	TW-60AB	1/2	---
4	Lock Ring	TW-16	TW-57	1	---
5	Nut	AN364-440A	AN364-440A	3	---
6	Steering Arm Assembly*	TW-15 (TW-13 & TW-16 are included in this Assembly)	TW-15A	1	---
7	Bracket Assembly, 1-1/4"	06-16101	06-16201	1	---
7	Bracket Assembly, 1-1/2"	06-16102	06-16202	1	---
8	Lock Pin	TW-13	TW-13	1	---
9	Steering Arm Spring	TW-14	TW-14	1	---
10	Lock Cover Plate	TW-12	TW-12	1	---
11	Screw	MS35206-217	MS35206-217	3	---
12	Cam	TW-10	TW-10	1	---
13	Screw	AN501-A10-4	AN501-A10-4	2	---
	AN520-10-4	AN520-10-4			
14	Zerk Fitting	TW-7-A14	TW-7-A14	1	-------
15	Oilite Bearing	TW-7 (3/4" I.D.)	TW-59A (7/8" I.D.)	1	---
Items 16 through 25 are for the solid rubber tire assembly only.					
16	Cotter Pin	AN380-3-3	AN380-3-3	1	---
17	Screw	TW-A18	TW-A18	3	---
18	Hub Cap	TW-27	TW-27	1	---
19	Axle Nut	AN320-8	AN320-8	1	---
20	Bearing	TW-3	TW-3/A15	1	---
21	Tire–solid, no bearings	TW-23	TW-23	1	---
21	Tire–solid, with bearings	TW-23A	TW-23A	1	---

Old Style (Pre 1976) has 3/4" Fork Shaft & New Style (Post 1976) has 7/8" Fork Shaft		Old Style SFS-P8 Pneumatic or SFS Solid Rubber	New Style SFS-P8A Pneumatic and SFSA Solid Rubber	Qty. Req.	Price Each
#	Description	Part Number	Part Number		
22	Bearing (with washer)	TW-A15	TW-A15	1	---
23	Washer	TW-28	TW-28	1	---
24	Felt Seal	TW-26	TW-26	1	---
25	Retainer Washer Fork (with axle)	TW-64	TW-64	1	---
27	Axle	TW-5	TW-5	1	---
28	Axle Sirclip Ring	TW-6	TW-6	1	---
29	Bearing	TW-A7	TW-A7	2	---
30	Inboard Wheelhalf, with bearings	TW-30	TW-30	1	---
31	Tire, 8-inch			1	-------
32	Tube			1	-------
33	Outboard Wheelhalf	TW-31	TW-31	1	---
34	Washer	TW-A6	TW-A6	1	---
35	Lock Washer	AN935-516	AN935-516	3	---
36	Bolt	TW-A12	TW-A12	3	-------
37	Hub Cap	TW-32	TW-32	1	---
38	Hub Cap Sirclip Ring	TW-33	TW-33	1	---
39	Cotter Pin	AN380-3-3	AN380-3-3	1	---
Items 40 through 44 are used on the "Old" style & pneumatic tailwheel that have a shimmy dampener.					
40	Adjusting Screw	TW-40		1	-------
41	Dampener Spring	TW-41		1	-------
42	Friction Block	TW-42		1	-------
43	Hex Housing	TW-43		1	-------
44	Bracket Assembly, 1-1/4 inch drilled	TW-44-1-4		1	-------
	Bracket Assembly, 1-1/2 inch drilled	TW-44-1-21	-------		-------

MAULE ARM ASSEMBLIES

Fig. No.	Description	Style	Qty Req.	Part No.	Price
26	Arm Assembly .375 Dia. (Pneumatic)	Old	1	TW-58A	---
26	Arm Assembly without Axle .435 Dia. (Solid Rubber)	New	1	TW-61A	---
26	Arm Assembly with Axle .435 Dia. (Solid Rubber)	New	1	TW-61A	---
26	Arm Assembly .375 Dia. (Pneumatic)	New	1	TW-58A-1	---
26	Arm Assembly .375 Dia. (Solid Rubber)	Old	1	TW-21-1	---

MATCO SINGLE ARM TAILWHEELS

P/N 06-01615

P/N 06-01620

P/N 06-00831

Matco tailwheels use a fiberglass reinforced nylon wheel with an operating load of 450 lbs. It takes over 5000 lbs to fail the wheel and it will hold up in the most rigorous conditions. Can be used with 1-1/4" or 1-1/2" leaf spring. These tailwheels are steerable, and are available with a 6 inch hard rubber solid tire or with 8" Shin pneumatic tire and tube for heavier aircraft. Tailwheel construction is anodized aluminum. Weight: 5 lbs.

Item	Part No.	Price
Matco solid rubber tire Tailwheel Assembly	06-01615	---
Replacement Tire (solid rubber) for T-6	06-00004	---
Matco 6" Pneumatic the Tailwheel Assembly	06-00831	---
Replacement 6" Pneumatic Tire* Tube	06-00832	---
Matco 8" pneumatic wide Tailwheel Assembly Overall length of 11.20". Max fully splayed arms is 9.29" and overall height is 11.7". weight 7 lbs.	06-01620	---
Matco 8" pneumatic wide Tailwheel Assembly Overall length of 12.51". Max fully splayed arms is 9.29" and overall height is 15.7". Weight 8lbs.	06-01361	---
Specialty Replacement 8" Tire 2.80/2.50-4 4PLY	06-08000	---
Specialty Replacement Tube 8" 280 X 250 X 4	06-08101	---

MATCO DUAL ARM TAILWHEELS

DUAL ARM TAIL WHEEL ASSEMBL 8 INCH PNEUMATIC TIRE

The T-8LD tail wheel utilizes a dual fork configuration and incorporates a geometric release mechanism that allows the wheel to caster after reaching a steered angle of 40 degrees. The WHLTW37 wheel used on the WHLT-8LD has a .625 precision sealed ball bearing which is rigorously tested and designed to resist bearing fatigue providing a long bearing life. The arms and wings of the tail wheel fork assembly are composed of 4130 which is heat treated to a Rockwell 38-43 to ensure strength and are irridited to prevent corrosion. The tail wheel base and forks are cast and then black anodized to prevent corrosion as well. The wheel halves are die cast aluminum for light weight and superior strength. The T-8LD features split rims for ease of mounting and dismounting its 200x50 (8"x2") tire and tube assembly.
Specifications: • 8 inch pneumatic tire • Overall length of 10.8 inches • Maximum width of this tail wheel with fully splayed arms: 7 inches • Overall height: 10.8 inches • This cast aluminum tail wheel weighs 5.4 pounds .....P/N 06-01528 ..... ---

LIGHTWEIGHT DUAL ARM TAIL WHEEL ASSEMBLY 8.5 INCH PNEUMATIC TIRE

The T-8D tail wheel utilizes a dual fork configuration and incorporates a geometric release mechanism that allows the wheel to caster after reaching a steered angle of 40 degrees. The WHLTW40EE wheel used on the WHLT-8D has a .625 precision sealed ball bearing which is rigorously tested and designed to resist bearing fatigue providing a long bearing life. The arms and wings of the tail wheel fork assembly are composed of 4130 which is heat treated to a Rockwell 38-43 to ensure strength and are irridited to prevent corrosion. The tail wheel base and forks are cast and then black anodized to prevent corrosion as well. The wheel halves are die cast aluminum for light weight and superior strength. The T-8D features split rims for ease of mounting and dismounting its 2.80/2.50-4 tire and tube assembly. **Specifications**: 8.5 inch pneumatic tire, Overall length of 11.6 inches, Maximum width of this tail wheel with fully splayed arms: 7 inches, Overall height is 11.8 inches, This cast aluminum tail wheel weighs 6.7 pounds.
P/N 06-01529 ..... ---

MATCO DUAL ARM TAILWHEELS

DUAL ARM TAIL WHEEL ASSEMBLY 8.5 INCH PNEUMATIC TIRE

The T-8WD tail wheel utilizes a dual fork configuration and incorporates a geometric release mechanism that allows the wheel to caster after reaching a steered angle of 40 degrees. The WHLNW40EE wheel used on the WHLT-8WD has a .625 precision sealed ball bearing which is rigorously tested and designed to resist bearing fatigue providing a long bearing life. The arms and wings of the tail wheel fork assembly are composed of 4130 which is heat treated to a Rockwell 38-43 to ensure strength and are irridited to prevent corrosion. The tail wheel base and forks are cast and then black anodized to prevent corrosion as well. The wheel halves are die cast aluminum for light weight and superior strength. The T-8WD features split rims for ease of mounting and dismounting its 9x3.50-4 tire and tube assembly. **Specifications**: 8.5 inch pneumatic tire, Overall length of 11.7 inches, Maximum width of this tail wheel with fully splayed arms: 7 inches, Overall height is 11.9 inches, This cast aluminum tail wheel weighs 8.3 pounds.
P/N 06-01531 ..... ---

DUAL ARM TAIL WHEEL ASSEMBLY 10 INCH PNEUMATIC TAIL WHEEL

This wheel features split rims for ease of mounting and dismounting its 10 x 3.50-4 tire and tube assembly. The tail wheel assembly is both steerable and full swiveling and provides easy installation with variant spring tension. This wheel has been designed to release with light spring tension and fits a 1.75 wide spring. Adapter plates can accommodate either a 1.25 or 1.50 inch wide spring. The base unit that mounts to the spring is also machined from extrusion. It is available with a two hole mounting option. The assembly should be mounted on the flat spring so that the pivoting axle is as close to vertical as possible when the plane is loaded. All assembly bushings are made of oil impregnated brass so no lubrication is needed during the life of the tail wheel. In addition, the shaft has been redesigned to .625 for added strength and durability.
Specifications: • Tail wheel has a 10 inch pneumatic tire, overall length of 11.4 inches• Max width of tail wheel with fully splayed arms is 7 inches, overall height of 13.1 inches• Weight: 8.5 pounds.
P/N 06-01781 ..... ---

DUAL ARM TAIL WHEEL ASSEMBLY 11 INCH PNEUMATIC TIRE

The T-11D tail wheel utilizes a dual fork configuration and incorporates a geometric release mechanism that allows the wheel to caster after reaching a steered angle of 40 degrees. The MH5N-S wheel used on the WHLT-11D has a .625 precision sealed ball bearing which is rigorously tested and designed to resist bearing fatigue providing a long bearing life. The arms and wings of the tail wheel fork assembly are composed of 4130 which is heat treated to a Rockwell 38-43 to ensure strength and are irridited to prevent corrosion. The tail wheel base and forks are cast and then black anodized to prevent corrosion as well. The wheel halves are die cast aluminum for light weight and superior strength. The T-11D features split rims for ease of mounting and dismounting its 11x6-5 tubeless tire assembly. **Specifications**: 11 inch pneumatic tire, Overall length of 13.5 inches, Maximum width of this tail wheel with fully splayed arms: 7 inches Overall height: 14 inches, This cast aluminum tail wheel weighs 9.6 pounds.....P/N 06-01537 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

STEEL TAILWHEEL LEAF SPRINGS

Set No.	Spring Width	Hole Dia. Fuselage End	Hole Dia. Tailwheel End	Distance Between Bolt Centers	Original Application	Wt. Lbs.	No. of Springs	Part No.	Price
1	1-1/4"	7/16"	3/8"	12-1/2"	Piper J-3 (serial numbers 10339 and up), L-4, PA-11, PA-12, PA-14 (up to serial number 204)	3-1/8	3	06-14200	---
2	1-1/2"	3/8"	3/8"	11-1/4"	T-Craft BC-12D	2-3/4	3	06-14300	---
3	1-1/2"	3/8"	7/16"	14-1/4"	Aeronca 7AC, 11AC	3-1/2	3	06-14400	---
4	1-1/2"	3/8"	3/8"	14-7/8"	Homebuilts	1-3/4	1	06-14500	---
5	1-1/4"	5/16"	3/8"	11-3/4"	Luscombe	3-1/2	4	06-14600	---
6	1-1/4"		Main Leaf Only	11-3/4"	Luscombe	1-1/2	1	06-14700	---
7*	1-1/2"	5/8"	7/16"	13-1/2"	Cessna 120-140	4	4	06-14800*	---
8	1-1/2"		Main Leaf Only	13-1/2"	Cessna 120-140	1-1/2	1	06-14900	---
9	1-1/2"	5/8"	7/16"	13-1/2"	Cessna 170	5	5	06-15000	---
10	1-1/2"		Main Leaf Only	13-1/2"	Cessna 170	1-3/4	1	06-15100	---

DISCOUNTS LESS 10% ON 6, 15% ON 10 (ASSORTED) ***P/N 06-14800 has two bends**

MAULE ANTI-SHIMMY CONNECTOR SPRING KITS

A high and low frequency spring is used to upset the natural frequency of the tailwheel. The lighter spring is used on the left side .....P/N 06-15150 ..... ---

TENSION TYPE CONNECTOR SPRING KITS

Kit consists of two tension type springs, two chains and two connector links.

Lightweight Spring Kit Scott ..... P/N 2151 ..... ---
Connector Links ..... P/N 06-15400 ..... ---
Chain (per foot) ..... P/N 06-15500 ..... ---

COMPRESSION TYPE CONNECTOR SPRING KIT

Replace conventional springs with new compression type. Original tension type springs keep rudder post under continuous tension which wears the hinges. Compression type springs keep rudder neutral - no tension on post. Assures more effective steering action.

Set of 2 stainless steel springs, (2) 1' chains, 4 connector clips:
P/N 06-15600 ..... ---
Connector Clips ..... P/N 06-15400 ..... ---
Chain (per foot) ..... P/N 06-15500 ..... ---

CESSNA TAILWHEEL SPRING CONNECTOR KIT

Univair U3239A-103 tailwheel spring connector assemblies may be used to replace the existing tailwheel spring connector assemblies on tailwheel equipped Cessna Aircraft. Features: • Applicability: Cessna 120/140 Series, 170 Series • For use with Scott 3200 pneumatic tailwheel • FAA-PMA approved

Supercedes part number 3239 ..... P/N 05-27337 ..... ---

REPLACEMENT TAILWHEEL FOR VAN'S TAILWHEEL ASSEMBLY

This is a replacement tail wheel for the Van's tail wheel assembly. The hub is made from 6061-t6 aircraft aluminum with a tire molded from 65 durometer SBR rubber. The design includes precision sealed bearings.5-1/2" Diameter X 1-1/2" tire x 2" hub thickness. ..... P/N 06-01284 ..... ---

SONEX TAILWHEEL

This sand-cast aluminum cores combine weight, economy and long life with maximum strength. The single-wall construction offers a light yet durable wheel with the ability to absorb impact. Engineered to transmit loads directly to the bearing surface for smoother action. **Specifications**: • Diameter & Width: 4" x 1-1/2" • Bearing ID or Axle Size: 3/8 or 3/4 • Hub Length std. 1-1/2" • Aprox Wt. 1lb • Load Rating: 225 • Less Bearing 1-3/8

3/8 Axle ..... P/N 06-01665 ..... ---
3/4 Axle ..... P/N 06-03558 ..... ---

PIPER TAILWHEEL SPRINGS

Description	Part No.	Price
PA-15/17 Tailwheel Spring Assembly PA17TWS	05-21946	---
PA-16 Tailwheel Spring Assembly SN 1 TO 272 PA16TWS4L	05-21947	---
PA-16 Tailwheel Spring Assembly SN 273 AND UP PA18TWS4L	05-21948	---

TAILWHEEL TIRES

6X2 AERO CLASSIC SOLID TIRE - Used on Scott 2000. Replaces Goodyear 6x2 tire.
P/N 06-01044 ..... ---

6X2 GENERAL SOLID TIRE - A flexible rubber tire with four knobs on center hole. This is Scott P/N 1879 used on Scott Model 2000 tailwheels and some Scott 3-24B tailwheels. Replaces Goodyear 6x2 (11 knobs) solid tailwheel tire ..... P/N 06-15800 ..... ---

6.50 X 2.50 SOLID TIRE - Maule P/N 23 for Model SFSA tailwheels.
Tire Only ..... P/N 06-00409 ..... ---
Tire w/ Bearings ..... P/N 06-00410 ..... ---

2.80/2.50 X4 SPECIALTY PNEUMATIC TIRE - Used on Scott Model 2600 8" wheel assembly.
Tire ..... P/N 06-08000 ..... ---
Tube ..... P/N 06-08101 ..... ---

2.80/2.50 X4 AZUSA TIRE
Tire ..... P/N 06-01287 ..... ---
Tube ..... P/N 06-01288 ..... ---

10 X 3.50 X 4 SPECIALTY PNEUMATIC TIRE - Used on Scott Model 3450 tailwheel and Scott Model 3245-1 10" wheel assembly.
Tire ..... P/N 06-08100 ..... ---
Tube ..... P/N 06-08102 ..... ---

400 X 4 AERO CLASSIC - used on Grove Model 49-1A; Tire: 11.5" Dia. Looks like scaled down 500x5 tire.
Tire ..... P/N 06-00844 ..... ---
Tube ..... P/N 06-08102 ..... ---

400X6 AERO CLASSIC - The New Light Sport Tire, 400-6 6 Ply with a Deep Aircraft Type Tread.
Tire ..... P/N 06-00944 ..... ---
Tube ..... P/N 06-00945 ..... ---

LG

GOOSENECK HOSE COUPLING

Used on high pressure strut pump hose. High pressure connection with a swivel nut and female 1/8" NPT port on other end.

P/N 06-11700 ..... ---

Replacement Seal .....P/N SK2043-5 ..... ---

STRUT VALVE

AN6287-1 strut valve for operating pressures up to 3000 PSI. Consists of a 3-piece stainless steel body, high-pressure valve core and MS20813-1B cap. .....P/N 06-00395 ..... ---

HIGH PRESSURE VALVE CORES

#9914B (Short Type, Length 7/8") Same operating range as #2300HV, but doesn't conform to AN809-1.

P/N 06-00396 ..... ---

AIRCRAFT TIRE VALVE CORES

Valve Core to replace the existing valve core in tires.

Opening Pressure PSIG	Max Working Pressure PSIG	Temp. Range (°F)	Cup Seal Material	Part No.	Price
60	300	-40 - 225	Nitrile	05-11589	---
80	225	-65 - 250	Silicone	6035	---

2525 VALVE CAP (MS20813-1B)

A heat-resisting cap designed to withstand high pressure conditions. Has special rubber sealing washer.

P/N 2525 .....--- **Ea.**

TIRE VALVE EXTENSION

This tire valve extension allows you to fill your tire with air without removing your wheel pants. Simply screw in to your existing valve, and fill your tire. The valve extension attaches securely and won't leak air.

P/N 06-03064 ..... ---

CESSNA WHEEL SPEED COVER KIT

U.S. Patented wheel covers enjoying performance improvements you only dreamed about, even better. Kits are available for all serial numbers for Cessna 402C, 414A, 421C Note: You must measure both the right and left side wheel nuts prior to order. Complete kit will install in 2-3 hours! P/N 06-01779 ..... ---

TIMKEN TAIL WHEEL FORK BEARING CUPS AND CONES

Wheel Bearing Cups and Cones. FAA-PMA approved Timken wheel bearings for Goodyear, Cleveland, and McCauley wheels. Class 2 aviation grade FAA-PMA bearings (Timken designates these with a -20629 suffix) Tighter tolerance and higher quality control than Class 4 automotive bearings.

Bearing Cone .....P/N 05-15148 ..... ---

TIMKEN NOSE GEAR SHOCK STRUT CUPS AND CONES FOR CARAVAN

Nose Gear Shock Strut Cups and Cones for Caravan. FAA-PMA approved Timken wheel bearings for Goodyear, Cleveland, and McCauley wheels. Class 2 aviation grade FAA-PMA bearings (Timken designates these with a -20629 suffix). Tighter tolerance and higher quality control than Class 4 automotive bearings.

Bearing Cup.....P/N 05-15145 ..... ---

Bearing Cone.....P/N 05-15146 ..... ---

MALIBU MIRAGE NOSE GEAR SPRING COMPRESSOR

Aerotar NLG Spring Compressor And Nose Gear Spring Removal Install Tool. For PA-46-350 Malibu Mirage

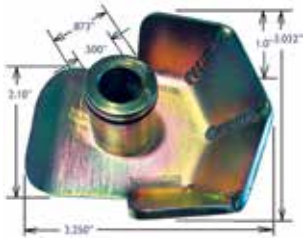
P/N 08-15782 ..... ---

NOSE GEAR SPRING FORK NEEDLE BEARING

Nose Gear Spring Fork Needle Bearing. Fits all Cessna 208 models. Two required per aircraft. Save 30%.....P/N 05-15144 ..... ---

BEECH NOSE GEAR DOOR HINGE UPGRADE KIT

This kit covers the nose gear door hinge bushings for the Beech Bonanza and Baron. Baron .....P/N 05-15104 ..... ---



THE LIP SKID

Prevents nose gear from digging into turf on dirt and grass runways. This device was created to help prevent flip-overs of the Vans RV-A Models on irregular surfaces. It installs in the bottom of the nose gear, providing surface area to keep the gear leg from digging in on contact.

P/N 05-12365 ..... ---

THE NOSE JOB 2 FOR RV NOSE GEAR

This product allows the Van's nose gear leg to function as designed without interfering with its dynamics or operation in any way. The product only comes into play when the forces on the gear leg, if allowed to increase further, would become greater than the gear leg was designed to see or handle without permanent damage to itself or the aircraft. When operating your aircraft from an unimproved surface i.e. grass, dirt, poor runway surface or in an emergency off field landing this device could help prevent a costly repair, a propeller strike, engine disassembly for inspection or other damage may be avoided not to mention a dreaded possible flip over we have seen so many times.

P/N 05-12364 ..... ---

RV-10 I RV-14 NOSE WHEEL SPACER

This spacer is a part specified by Vans in the RV-10 and RV-14 instruction manual. We CNC machine this part to the specifications set by Vans to give you a perfectly dimensionally accurate part to hold on your nosegear wheel pants. You are probably getting toward the end of your project if you are looking at this part. Go ahead and spend a few hours finishing up some other items on your aircraft and this part can be made for you. After we CNC machine this part, we also deburr all edges so it is ready to bolt right onto your aircraft.....P/N 05-12907 ..... ---

NITROGEN TIRE INFLATION SYSTEM 20CU, 40CU NITROGEN ACCESSORY KIT

NOT FOR STRUT USE

GENTEC® Nitrogen aircraft tire inflation systems allow for easy, cost effective filling of General Aviation aircraft tires with pure Nitrogen. The **GKNAT20-TC** is a 20 cubic foot high pressure nitrogen tank (empty) with stand, ten foot hose; pressure reducing single stage regulator and tire inflator with resettable dial pressure gauge. The **GKNAT40-TC** is a 40 cubic foot high pressure nitrogen tank (empty) with stand, ten foot hose; pressure reducing single stage regulator and tire inflator with resettable dial pressure gauge. **Visit our website to locate a filling station near you.**

Nitrogen Tire Inflation System 20CU.....P/N 12-01586 ..... ---

Nitrogen Tire Inflation System CU40.....P/N 12-01587 ..... ---

Nitrogen Accessory Kit- (This kit is for someone who may already have a nitrogen cylinder and only needs the accessories)

P/N 12-01588 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CARBURETORS

Customer will need to provide core for overhaul in the event that our supplier does not have cores available to overhaul

REPLACEMENT CARBURETORS FROM MARVEL-SCHEBLER

Carburetor exchange program covers all popular Marvel Schebler/Facet general aviation carburetors. The carburetors are overhauled to the strictest industry standards and carry a full 6 month warranty (from date of installation). Most carburetors are available from stock or within a week and are furnished complete with gaskets.

Due to the various configurations of carburetor installations, we suggest you retain your carburetor core until receiving the exchange unit. This will enable you to transfer all external fittings and installation hardware to the new exchange unit. All cores being returned for credit shall be, as removed from the engine, complete and not disassembled. A reduction in core credit is charged for missing or damaged parts.

- Precision Carburetors
- TCM Fuel Systems
- Flow Dividers
- Fast Turn Time on Overhauls
- Unmatched Quality
- 100% calibration of fuel pumps and servos.
- Precision Fuel Servos
- Romec Fuel Pumps
- FAA/PMA Approved Replacement Parts
- Carburetor Overhaul Quick Kits
- Highly skilled/trained technicians

LYCOMING CARBURETORS

Carb. Model	Lycoming P/N	Vendor P/N	Our P/N	Price
MA-3A	61547	10-3103-1	10-03103-1	---
MA-4SPA	69250	10-3678-12	08-06325	---
MA-4SPA	72394	10-3678-32	08-06326	---
MA-4-5	71098	10-3878	08-06372	---
MA-4-5	71710	10-4164-1	08-06373	---
MA-4-5	66458	10-2827	07-01405	---
MA-4-5	66869	10-3323	07-01411	---
MA-3SPA	62830	10-3565-1	07-01413	---
MA-4-5	69540	10-3634	07-01415	---
MA-4-5	71546	10-3856-1	07-01417	---
MA-4-5	71685	10-3856-12	07-01418	---
MA-4-5AA	71684	10-4025-12	07-01421	---
MA-6AA	72407	10-4218-1	07-01424	---
MA-4-5	72386	10-4329	07-01426	---
MA-4-5	74121	10-4404-1	08-06376	---
MA-6AA	73899	10-4438-1	07-01428	---
MA-4-5AA	73257	10-4495	07-01429	---
MA-5	20671	10-4865	07-01430	---
HA-6	LW-15957	10-5219	08-06394	---
MA-3PA	LW-16073	10-5220	08-06395	---
MA-3PA	---	10-5220-E	07-01464	---
HA-6	LW-16066	10-5221	07-01465	---
HA-6	LW-15958	10-5224	08-06396	---
MA-4SPA	77279	10-4910	08-06381	---

Carb. Model	Lycoming P/N	Vendor P/N	Our P/N	Price
MA-4SPA	LW-16559	10-4910-1	08-06382	---
MA-3A	77585	10-4953	08-06383	---
MA-6AA	77888	10-4975	07-01434	---
MA-3PA	77939	10-4978-1	07-01435	---
MA-4-5	LW-10064	10-5034	08-06385	---
MA-4-5	LW-10196	10-5042	07-01438	---
MA-3PA	LW-10619	10-5050	08-06386	---
MA-4-5	LW-10540	10-5054	08-06387	---
MA-3PA	LW-13133	10-5126	08-06388	---
HA-6	LW-13757	10-5189	07-01447	---
MA-4-5	LW-15380	10-5193	08-06390	---
HA-6	LW-15504	10-5200	07-01450	---
HA-6	LW-15626	10-5206	07-01453	---
HA-6	LW-15674	10-5211	07-01460	---
HA-6	LW-15985	10-5211-1	07-01461	---
MA-4-5	72740	10-4404	08-06375	---
MA-4SPA	78728	10-5009	08-06384	---
MA-4SPA	13659	10-5135	08-13873	---
MA-3A	15496	10-5199	08-06391	---
MA-4SPA	15986	10-5217	08-06392	---
MA-3SAP	0-290-D	10-3346-1	07-00870	---
$600.00	LW-16206	10-5227	07-01467	---
$699.00	LW-15959	10-5230	08-06397	---
HA-6	LW-15960	10-5235	08-06398	---

NOTE

Customer will need to provide core for overhaul in the event our supplier does not have cores available to overhaul.
If you do not see your model # here please contact Aircraft Spruce Sales Department for pricing and availability .
***All prices shown are with factory acceptable exchange carburetor.**
Send exchange carburetor core to Aircraft Spruce. Upon factory approval of core, you will be refunded the core charge.
BE CERTAIN ALL FUEL IS REMOVED FROM THE CORE.
If Carburetor is not in stock we can have yours overhauled in 5-7 working days. Please call or email for more information.

CONTINENTAL CARBURETORS

Part No.	Carb. Model	O.E.M. P/N	Our Part No.	Our Price
10-3168	MA-4-5	520120	07-01369	---
4895-T	MA-3SPA	530490	08-06380	---
10-3859-1	MA-4-5	538872	08-06371	---
10-3965-12	MA-4-5	539883	10-03965-12	---
10-4171	MA-4-5	626789	07-01351	---
10-4191	MA-4-5	626859	07-01375	---
10-4233	MA-3SPA	627365	08-06374	---
10-4240	MA-3SPA	627637	07-01377	---
10-4457	MA-3SPA	629175	07-01378	---
10-4893-1	MA-4-5	641139	08-06378	---
10-4894	MA-3SPA	633028	08-06379	---
10-5067	MA-3SPA	-	07-01381	---
10-5082	MA-3SPA	637035	07-01382	---
10-5128	MA-3SPA	640416	07-01385	---
10-5192	MA-3SPA	641860	07-01386	---
10-5284	MA-4-5	646232	08-06404	---

*All prices shown are with factory acceptable exchange carburetor. Add core charge on all models to each price shown. Send exchange carburetor core to Aircraft Spruce. Upon factory approval of core, you will be refunded the core charge.
BE CERTAIN ALL FUEL IS REMOVED FROM THE CORE.
FRANKLIN ENGINE CARBURETORS ALSO AVAILABLE. ADVISE EXACT ENGINE AND CARBURETORS ALSO AVAILABLE. ADVISE ENGINE AND CARBURETOR MODEL NUMBERS AND REQUEST QUOTATION

MARVEL-SCHEBLER CARBURETORS

MARVEL-SCHEBLER NEW CARBURETORS

Note: Customer will need to provide core for overhaul in the event our supplier does not have cores available to overhaul.

Note: All Rebuilt & Overhauled Carb Purchases will be Charged an Additional Fee for Core.

PLEASE CHECK WITH AIRCRAFT SPRUCE ON AVAILABILITY OF CORES AT MARVEL-SCHEBLER.

Carb. Model No.	OEM Part No.	Our Part No.	Our Price	Tempest Carb. Model No.	OEM Part No.	Our Part No.	Our Price
MA-4SPA™	10-3678-12--F	08-06304	---	MA-4SPA™	10-3678-32--F	08-06305	---
MA-4-5™	10-3859-1--F	08-06327	---	MA-4-5™	10-3878--F	08-06306	---
MA-4-5™	10-4164-1--F	08-06307	---	MA-3PA™	10-4233--F	08-06328	---
MA-3SPA™	10-4240-1--F	08-06329	---	MA-4-5™	10-4404-1--F	08-06308	---
MA-4-5™	10-4893-1--F	08-06309	---	MA-3SPA™	10-4894-1--F	08-06311	---
MA-3SPA™	10-4895-1--F	08-06312	---	MA-4SPA™	10-4910-1--F	08-06332	---
MA-4SPA™	10-5009--F	08-06315	---	MA-4-5™	10-5034--F	08-06335	---
MA-4SPA™	10-6110-F	07-26829	---				
MA-3PA™	10-5050--F	08-06336	---	MA-4-5™	10-5054--F	08-06337	---
MA-3SPA™	10-5082--F	08-06338	---	MA-3PA™	10-5126--F	08-06339	---
MA-3PA™	10-5142--F	08-06340	---	MA-4-5™	10-5193--F	08-06341	---
MA-3A™	10-5199--F	08-06316	---	MA-4SPA™	10-5217--F	08-06317	---
HA-6™	10-5219--F	08-06342	---	MA-3PA™	10-5220--F	08-06343	---
HA-6™	10-5224--F	08-06344	---	HA-6™	10-5230--F	08-06345	---
HA-6™	10-5235--F	08-06346	---	HA-6™	10-5253--F	08-06347	---
HA-6™	10-5255--F	08-06348	---	MA-3PA™	10-5257--F	08-06349	---
MA-3PA™	10-5267--F	08-06353	---	HA-6™	10-5283--F	08-06354	---
MA-4-5™	10-5284--F	08-06356	---	MA-4-5™	10-5288--F	08-06357	---
HA-6™	10-6001--F	08-06358	---	HA-6™	10-6019--F	08-06359	---
MA-4-5	10-6035-11-F	07-26832	---				
MA-4-5™	10-6045--F	08-06366	---	MA-4-5™	10-6050--F	08-06368	---
MA-4-5™	10-6054--F	08-06369	---	MA-4-5™	10-6102--F	08-06370	---

EP

MARVEL-SCHEBLER REBUILT & OVERHAULED CARBURETORS

Model Number	OEM Part No.	Rebuilt Part No.	Rebuilt Price	Overhaul Part No.	Overhaul Price
MA-4SPA™	10-3678-12	08-06325-1	---	08-06325	---
MA-4SPA™	10-3678-32	08-06326-1	---	08-06326	---
MA-4-5™	10-3859-1	08-06371-1	---	08-06371	---
MA-4-5™	10-3878	08-06372-1	---	08-06372	---
MA-4-5™	10-4164-1	08-06373-1	---	08-06373	---
MA-3PA™	10-4233	08-06374-1	---	08-06374	---
MA-4-5™	10-4404-1	08-06376-1	---	08-06376	---
MA-4-5™	10-4404	08-06375-1	---	08-06375	---
MA-4-5™	10-4893-1	08-06378-1	---	08-06378	---
MA-3SPA™	10-4894-1	08-06379-1	---	08-06379	---
MA-3SPA™	10-4895-1	08-06380-1	---	08-06380	---
MA-4SPA™	10-4910-1	08-06382-1	---	08-06382	---
MA-4SPA™	10-4910	08-06381-1	---	08-06381	---
MA-4SPA™	10-6110	07-26830	---	07-26831	---
MA-3A™	10-4953	08-06383-1	---	08-06383	---
MA-4SPA™	10-5009	08-06384-1	---	08-06384	---
MA-4-5™	10-5034	08-06385-1	---	08-06385	---
MA-3PA™	10-5050	08-06386-1	---	08-06386	---
MA-4-5™	10-5054	08-06387-1	---	08-06387	---
MA-3PA™	10-5126	08-06388-1	---	08-06388	---
MA-4-5™	10-5193	08-06390-1	---	08-06390	---
MA-3A™	10-5199	08-06391-1	---	08-06391	---
MA-4SPA™	10-5217	08-06392-1	---	08-06392	---
HA-6™	10-5219	08-06394-1	---	08-06394	---
MA-3PA™	10-5220	08-06395-1	---	08-06395	---
HA-6™	10-5224	08-06396-1	---	08-06396	---
HA-6™	10-5230	08-06397-1	---	08-06397	---
HA-6™	10-5235	08-06398-1	---	08-06398	---
HA-6™	10-5253	08-06399-1	---	08-06399	---
HA-6™	10-5255	08-06400-1	---	08-06400	---
MA-3PA™	10-5257	08-06401-1	---	08-06401	---
MA-3PA™	10-5267	08-06402-1	---	08-06402	---
HA-6™	10-5283	08-06403-1	---	08-06403	---
MA-4-5™	10-5284	08-06404-1	---	08-06404	---
MA-4-5™	10-5288	08-06405-1	---	08-06405	---
HA-6™	10-6001	08-06406-1	---	08-06406	---
HA-6™	10-6019	08-06407-1	---	08-06407	---
HA-6™	10-6030-1	08-06408-1	---	08-06408	---
MA-4-5™	10-6035-11	08-06409-1	---	08-06409	---
MA-4-5™	10-6054	08-06410-1	---	08-06410	---

MARVEL-SCHEBLER FLOAT KIT

A new float has been developed for the small MA series carburetors. The new floats are a solid blue epoxy material with a smooth skin.

Small.....P/N 08-06508 ..... ---
Large.....P/N 08-06510 ..... ---

THROTTLE SHAFT MINOR REPAIR KIT 778-1007-F

Tempest MSA throttle minor repair kit (778-1007--F). All parts contained in this kit are covered under FAA/PMA PQ0111NM and/or PQ1296CE.

P/N 08-06539 ..... ---

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CARBURETOR PARTS

REPLACEMENT PARTS FOR MARVEL-SCHEBLER CARBURETORS

Mfg. Ref.	Description	Part No.	Price
16-A39	Gasket	08-06627	---
16-A42		08-06628	---
16-A48		08-06629	---
16-A56		08-06630	---
16-B44		08-06635	---
16-B45		08-06636	---
16-B85		08-06641	---
17-372	Rod	08-06649	---
17-383		08-06650	---
194-580	Pump Plunger	08-06938	---
194-591		08-06939	---
194-593		08-06940	---
194-605		08-06941	---
233-614	Valve & Seat	08-06971	---
233-615	Float Valve	08-06972	---
24-262	Spring	08-06651	---
24-A10		08-06655	---
24-A115		08-06656	---
24-A30		08-06659	---
24-A33		08-06660	---
29-182	Clip	08-06669	---
32-32	Shaft	08-06675	---
32-35		08-06676	---
34-72	Valve	08-06679	---
34-91		08-06680	---
44-220	Packing O-Ring	08-06696	---
44-223		08-06699	---
44-224		08-06701	---
44-49		08-06695	---

Mfg. Ref.	Description	Part No.	Price
60-260	Bushing	08-06821	---
60-A160		08-06824	---
778-1003	Throttle	08-06535	---
778-1004		08-06536	---
15-483	Screw	08-06590	---
15-58		08-06585	---
15-A23		08-06598	---
15-B108		08-06609	---
15-B109		08-06610	---
15-B98		08-06607	---
16-222	Gasket	08-06617	---
16-224		08-06619	---
16-625		08-06413	---
16-646		08-06415	---
16-653		08-06416	---
16-676		08-06417	---
16-696		08-06419	---
16-713		08-06422	---
16-735		08-06425	---
16-A107		08-06631	---
16-A108		08-06632	---
16-A16		08-06621	---
16-A28		08-06622	---
16-A30		08-06623	---
16-A31		08-06624	---
16-A32		08-06625	---
16-A36		08-06626	---
82-1	Cotter Pin	08-06878	---
82-11		08-06880	---

Mfg. Ref.	Description	Part No.	Price
82-14	Cotter Pin	08-06881	---
99-44	Plug	08-06896	---
47-852	Nozzle	08-06771	---
778-1005	Throttle Shaft	08-06537	---
778-1006		08-06538	---
778-1007		08-06539	---
778-1008		08-06540	---
78-121	Washer	08-06842	---
78-388		08-06847	---
78-A109		08-06853	---
78-A110		08-06854	---
78-A111		08-06855	---
78-A40		08-06851	---
78-A97		08-06852	---
81-311	Nut	08-06877	---
13-1519	Throttle Shaft	08-06568	---
13-1520		08-06569	---
13-1521		08-06570	---
13-1522		08-06571	---
13-1523		08-06572	---
13-1531		08-06575	---
13-1533		08-06576	---
155-226	Lever	08-06912	---
155-307		08-06914	---
15-126	Screw	08-06587	---
43-648	Needle	08-06691	---
43-564		08-06690	---

SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE PARTS LIST.

REPLACEMENT CARBURETOR VENTURI'S (ONE PIECE)

These one piece Venturis replace old type primary and main Venturis in Marvel-Schebler carburetors. Order by new Venturi part number.

Old Main Venturi	New 1-Piece Venturi	Our Price
46-462	46-F7	---
46-A2	46-F10	---
46-A70	46-F12	---

FLOAT NEEDLE SEAT DRIVER

This Float Needle Seat Driver is applicable to Marvel-Schebler MA3 and MA4 carburetors and is quality made of alloy steel. It facilitates the easy removal of needle valve seats, prevents damage to the main casting and the new seat during installation, and insures proper torque application. Features 7/16" hex drive fitting.....P/N 12-30190 .....

BENDIX/PRECISION RSA FUEL SERVOS & FLOW DIVIDERS

• (RSA-5, RSA-7da1, RSA-10 Overhaul/Exchange) • (Flow Dividers Overhaul / Exchange • TMC Complete Fuel Injection Systems (IO-360, IO-550, L/TSIO-360,TSIO-520, GTSIO-520, TSI Overhaul Exchange) • TCM Individual Fuel Injection Components Throttle Assemblies, Control Assemblies (without throttle Pumps, Manifold Valves, Pressure Regulators, No Assemblies (cleaning, rejetting, calibrating) • FAA/PMA Replacement Parts.

Call or visit our website at: www.aircraftspruce.com for more info.

REPLACEMENT CARBURETORS PARTS BY MARVEL-SCHEBLER

Needle and Seats.
MA3-4 #233-615.....P/N 08-06972 ..... ---
MA4-5 #233-614.....P/N 08-06717 ..... ---

REPAIR KITS & PARTS FOR COMMON MARVEL-SCHEBLER CARBURETORS

NOTE: Many Marvel-Schebler replacement parts are no longer available from Facet. These are manufactured by Powerup.

Lycoming No.	Marvel-Schebler		Major Repair Kit Price
	Kit Part No.	Carb Part No.	
62830	286-1630	10-3565-1	---
LW-11222	286-1622	10-5062	---
LA-16907	286-1783	10-5267	---
71098	666-660	10-3878	---
LW-15380	286-1719	08-06466	---

MARVEL-SCHEBLER MS80-430 FLOAT KIT FOR BING CARBURETOR

Rotax® Engine Bing Carburetor Upgraded Replacement Float Set of Two - MS80-430. These solid, one-piece blue epoxy floats will not leak, absorb fuel or break apart like the micro-bubble foam float competitors. These floats can withstand extreme temperature changes and are truly unsinkable when exposed to the elements! The Marvel Schebler MS80-430 blue floats are direct replacements for the existing Bing floats.
P/N 861-184 .....P/N 07-25509 ..... ---

CARBURETOR HEAT BOX PARTS

Unique Elastomer Bearing Replaces Needle Bearing - McFarlane's elastomer bearing is assembled with tension between the mating surfaces. This tension prevents micro-movement and its related metal erosion. The bearing contact area that transfers vibration motion from the heat box to the butterfly shaft is hundreds of times greater than that of the original needle bearing. This large surface effectively prevents localized metal erosion. • Absorbs shaft and butterfly vibration • Eliminates needle bearing failures • Increases service life of all components • Direct replacement for original parts. **Proven Design:** • Tested to over 700,000 cycles while exposed to avgas, heat and vibration without any change in performance • Extremely rugged and wear resistant in high temperature and fuel environments. **Convenient:** • Discontinued part numbers through the factory are now manufactured by McFarlane • Also available in kits containing the shaft, arm, bearing housings, monel rivets, and roll pin. **Shafts and bearings sold separately.**

CESSNA SHAFT		
Description	Part No.	Price
Cessna Shaft MC0450068-2 Model: FA152 Serial No: FA1520337 thru FA1520425	05-04430	---
Cessna Shaft MC0550180-16 Model: 172B,C Serial No: 17247747 thru 17249544	05-04431	---
Cessna Shaft MC0550180-28 Model: F172D,E,F, G Serial No: F172-0001 thru F172-0319	05-04432	---
Cessna Shaft MC0509068-6 Model: 172Q Serial No: 17275869 thru 17276516	05-04433	---
Cessna Shaft MC1752078-4 Model: 177A,B Serial No: 17701165 thru 17702752	05-04434	---
Cessna Shaft MC0750112 Model: 180* Serial No: 30000 thru 32150	05-04435	---
Cessna Shaft MC0750126-19 Model: 180*, 180A,B Serial No: 32151 thru 50661	05-04436	---
Cessna Shaft MC0750133-8 Model: 175, 175A Serial No: 55001 thru 56777	05-04437	---
Cessna Shaft MC0750173-3 Model: 185, 185A,B, C,D,E/A185E* Serial No: 185-0001 thru 185-1300	05-04438	---
Cessna Shaft MC0750173-4 Model: A185E* Serial No: 185-1301 thru 18501832	05-04439	---

***Partial model eligibility.**

CESSNA ARM		
Description	Part No.	Price
Cessna Arm MCS2280-8-00 Model: 152, A152, F152, FA152 Serial No: 15279406 thru 15286033 A152 A1520735 thru A1521049 F152 F15201429 thru F1520198 FA152 FA1520337 thru FA1520425	05-04440	---
Cessna Arm MC0750111-19	05-04441	---
Cessna Arm MCS2280-3-157	05-04442	---

CESSNA BEARING		
Description	Part No.	Price
Cessna Bearing HSG MC0750113-1 Model: 152 Serial No: MC0750113-1	05-04443	---
Cessna Bearing HSG MC0750113-3 Model: 172Q Serial No:MC0750113-3	05-04444	---

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CARBURETORS

This image is for reference only: Kit contents may differ per kit

CARBURETOR OVERHAUL QUICK KITS

Marvel-Schebler "Quick Kits" are easy to use, and are designed to save you time and money. Quick Kits include not only the recommended replacement parts used in every overhaul, but the additional parts used by all fuel professionals to insure the job is done right.

Kits include (where applicable): Throttle shaft lever, throttle shaft, throttle adjusting screw, throttle valve screws, inlet strainer screws, throttle body screws, mixture control lever screw, gasket kit, pump connection rod, throttle adjustment spring, throttle opening spring, idle adjustment spring, float lever shaft, pump stem, throttle shaft bushings, inlet strainer washer, pump stem retainer washer, mixture control lever washer, throttle body washers, throttle lever lock nut, float shaft cotter pin, throttle nut cotter pin, pump lever, pump plunger assembly and float valve seat assembly.

Kit Part Number	Price
286-00	---
286-01	---
286-02	---
286-03	---

Kit Part Number	Price
286-04	---
286-05	---
286-06	---

Kit Part Number	Price
286-07	---
286-08	---
286-09	---

Kit Part Number	Price
286-10	---
286-11	---
286-12	---

SEE WHICH PART NO. IS FOR YOUR APPLICATION BELOW.

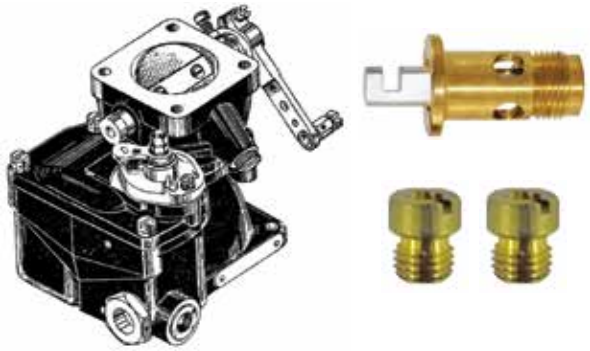
Franklin Carburetors	
Part No.	**"Quick Kit" P/N**
10-2971-P	286-02
10-3007	286-06
10-3063-2	286-06
10-3148-1	286-06
10-3479	286-06
10-5069	286-02
10-5093	286-00
Continental Carburetors	
Part No.	**"Quick Kit" P/N**
10-2848	286-02
10-2948	286-02
10-3168	286-05
10-3237	286-03
10-3649-1	286-05
10-3759	286-05
10-3859	286-05
10-3859-1	286-05
10-3965	286-05
10-3965-1	286-05
10-4171	286-05
10-4191	286-05
10-4233	286-02
10-4240	286-02
10-4240-1	286-02
10-4252	286-02
10-4439	286-03

Continental Carburetors	
Part No.	**"Quick Kit" P/N**
10-4457	286-02
10-4893	286-05
10-4893-1	286-05
10-4894	286-02
10-4894-1	286-02
10-4895	286-03
10-4895-1	286-03
10-5067	286-02
10-5082	286-02
10-5128	286-02
10-5192	286-05
10-5284	286-05
Lycoming Carburetors	
Part No.	**"Quick Kit" P/N**
10-2827	286-07
10-2983	286-00
10-3103-1	286-00
10-3323	286-07
10-3346-1	286-02
10-3391-1	286-06
10-3565-1	286-02
10-3634	286-06
10-3678-12	286-04
10-3678-32	286-04
10-3729	286-02
10-3856	286-06

Lycoming Carburetors	
Part No.	**"Quick Kit" P/N**
10-3856-1	286-06
10-3856-11	286-06
10-3856-12	286-06
10-3878	286-08
10-4057	286-09
10-4057-1	286-09
10-4164	286-08
10-4164-1	286-07
10-4404	286-09
10-4404-1	286-09
10-4910	286-04
10-4910-1	286-04
10-4953	286-00
10-4978-1	286-01
10-5009	286-04
10-5009N	286-04
10-5034	286-07
10-5042	286-00
10-5045	286-10
10-5045-1	286-10
10-5050	286-01
10-5054	286-09
10-5062	286-04
10-5092	286-10
10-5126	286-01
10-5135	286-04

Lycoming Carburetors	
Part No.	**"Quick Kit" P/N**
10-5142	286-01
10-5180	286-10
10-5189	286-10
10-5193	286-08
10-5199	286-00
10-5206	286-10
10-5206-1	286-10
10-5206-11	286-10
10-5210	286-10
10-5217	286-04
10-5219	286-11
10-5220-E	286-01
10-5220	286-01
10-5221	286-12
10-5224	286-11
10-5227	286-12
10-5230	286-11
10-5235	286-11
10-5253	286-11
10-5255	286-11
10-5257	286-01
10-5267	286-01
10-5282	286-11
10-5283	286-11
10-5288	286-08
10-6014	286-11

BENDIX STROMBERG NA-S3A1 CARBURETOR OVERHAUL PARTS FOR NA-S3A1 CARBURETOR



The NA-S3A1 carburetor is no longer in production. Only the parts listed are carried in stock. Others may be special ordered. Originally used on Cont. A-65, A-75, A-80, C-75, C-85 and C-90 engines.

Gasket & Ring Set
(Incl. gaskets for under seat).....P/N 07-02200 ..... ---
Metering Jet (C-85) .....P/N 07-00684 ..... ---
Metering Jet (A-65).....P/N 07-00685 ..... ---

Throttle Shaft (Ref. #34 in Manual) not available.

MARVEL-SCHEBLER CARB GASKETS

MC16-A36 GASKET FUEL INLET FAA-PMA

Marvel-Schebler Fuel Inlet Screen Gaskets for many Carbureted Aircraft The copper gaskets should be changed when finger screens are inspected at each annual inspection.
P/N 07-01387 ..... ---

Marvel-Schebler / Facet Carburetor Models Eligible for Installation	Eligible Engine Model Series	
	Continental Model Series	Lycoming Model Series
MA-3, MA-3PA, MA-3A, MA-3SPA, MA-4SPA	A-65, A-75, C-85, C-90, O-200, C-125, C-145, O-300	O-235, O-290, O-320

MC16-A108 GASKET FUEL INLET FAA-PMA

Marvel-Schebler Fuel Inlet Screen Gaskets for many Carbureted Aircraft The copper gaskets should be changed when finger screens are inspected at each annual inspection.
P/N 07-01389 ..... ---

Marvel-Schebler / Facet Carburetor Models Eligible for Installation	Eligible Engine Model Series	
	Continental Model Series	Lycoming Model Series
MA-4-5, MA-4-5AA, MA-5, MA-6AA, HA-6	GO-300, O-470	O-340, O-360, O-435, O-540

MC16-A48 GASKET FUEL INLET FAA-PMA

Marvel-Schebler Fuel Inlet Screen Gaskets for many Carbureted Aircraft The copper gaskets should be changed when finger screens are inspected at each annual inspection.
Sold as a 5 pack.....P/N 07-01388-5 ..... ---

Marvel-Schebler / Facet Carburetor Models Eligible for Installation	Eligible Engine Model Series	
	Continental Model Series	Lycoming Model Series
MA-4-5, MA-5AA, MA-4-5AA, MA-5, MA-6, MA-6AA, HA-6	GO-300, O-470	O-340, O-360, O-435, O-540

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AVSTAR CARBURETORS

AvStar Overhaul Exchange for Fuel Servo.

AvStar is a proud supplier to Lycoming Engines for both their NEW, REMANUFACTURED & OVERHAULED Factory Engines. The engines are built to the latest Lycoming flow curves. AvStar's expertise of 50 years experience in fuel control technology.The best quality and price in the industry.

Avstar Part Number	Our Part Number	Description	Price
2576630-4 RSA-10AD1	07-20717	Avstar Avstar O/H Exchange Fuel Servo	---
2576536-2 RSA-5AD1	07-21053	Avstar O/H Exchange Fuel Servo	---
10-6035-11 MA-4-5	10-06698	Avstar O/H Exchange Carburetor	---
10-6019 HA-6	07-21036	Avstar O/H Exchange Carburetor	---
10-5235 HA-6	10-06691	Avstar O/H Exchange Carburetor	---
10-6102 MA-4-5	07-21038	Avstar O/H Exchange Carburetor	---
10-6054 MA-4-5	07-21037	Avstar O/H Exchange Carburetor	---
10-4404 MA-4-5	10-06676	Avstar O/H Exchange Carburetor	---
10-4164-1 MA-4-5	10-06673	Avstar O/H Exchange Carburetor	---
10-3878 MA-4-5	10-06672	Avstar O/H Exchange Carburetor	---
10-5193 MA-4-5	10-06685	Avstar O/H Exchange Carburetor	---
10-5217 MA-4SPA	10-06688	Avstar O/H Exchange Carburetor	---
10-4894-1MA-3SPA	07-21012	Avstar O/H Exchange Carburetor	---
10-5054 MA-4-5	10-06683	Avstar O/H Exchange Carburetor	---
10-3678-32 MA-4SPA	10-06671	Avstar O/H Exchange Carburetor	---
10-5267 MA-3PA	10-06695	Avstar O/H Exchange Carburetor	---
10-5009MA-4SPA	10-06680	Avstar O/H Exchange Carburetor	---
10-3678-12 MA-4SPA	10-06670	Avstar O/H Exchange Carburetor	---
10-5199 MA-3A	10-06686	Avstar O/H Exchange Carburetor	---
2576526-1	07-21068	Avstar O/H Exchange Flow Divider	---
AV666-915	07-21486	Avstar Float Kit For Carburetor MA3 & MA4	---
AV2522004	07-21284	Avstar Lever-Mixture	---
AV30-764	07-20776	Avstar Float-Assembly	---
AV194-605	07-20773	Avstar Accelerator Pump	---
AV194-800	07-21135	Avstar Accelerator Pump	---
AV2521196	07-21274	Avstar Lever-Throttle	---
AV2526388	07-21323	Avstar Diaphragm	---
AV2524864-2	07-21003	Avstar Nozzle Assembly New Outright	---
AV12-B57	07-21078	Avstar Lever-Throttle, Carburetor	---
AV367547	07-21424	Avstar Screw-Assembly	---
AV132906	07-21259	Avstar Plug-Threaded	---
AV951437	07-20782	Avstar Packing	---
AV951790	07-20783	Avstar Packing	---
AV16-B75	07-20771	Avstar Gasket	---
AV16-A36	07-17832	Avstar Gasket	---
AV951787	07-21459	Avstar Packing	---
AV78-A122	07-20780	Avstar Locktab	---
AV16-A48	07-20770	Avstar Gasket	---
AV16-A108	07-21117	Avstar Gasket-Fitting, Fuel Inlet	---
AV951789	07-21460	Avstar Packing	---
AV951391	07-21454	Avstar Packing-Preformed	---
AV82-11	07-20781	Avstar Pin, Cotter	---
AV953541-10	07-21462	Avstar Packing	---
AV901200	07-21448	Avstar Pin	---

NOTE: CORE CHARGES APPLY TO ALL EXCHANGE UNITS.
SEE OUR WEBSITE FOR COMPLETE LIST OF AVSTAR PRODUCTS!

BING CARBURETORS

COMPLETE CARBURETORS – TYPE 54

To Order, Specify:
1. Model indicated by engine number 277, 377, 447, 503, or 532.
2. With intake silencer or Without intake silencer.
3. Single Carb or Dual Carb.
4. Hand Choke or Remote Choke.

Model # 54/36/2040
P/N 07-00303 ..... ---

TYPE 54 REBUILD KIT

• #7 Air Screw O Ring • #10 Sieve Sleeve (Screen) • #17 Top O Ring • #21 Cable Grommet • #25 Hinge Pin • #26 Float Needle • #29 Bowl Gasket • #56 Jet Needle Ring
P/N 07-00304 ..... ---

TYPE 54 FIX-IT KIT

• #11 Clip • #12 New Spring Cup • #56 Jet Needle O Ring
P/N 07-00305 ..... ---

COMPLETE CARBURETORS – TYPE 84

To Order, Specify:
1. Model indicated by engine number 277, 377, 447, 503, or 532.
2. With intake silencer or Without intake silencer.
3. Single Carb or Dual Carb.
4. Hand Choke or Remote Choke.

Model # 84/32/3437 P/N 07-00306..... ---

TYPE 84 REBUILD KIT

• #7 Air Screw O Ring • #10 Sieve Sleeve (Screen) • #17 Top O Ring • #21 Cable Grommet • #25 Hinge Pin • #26 Float Needle • #29 Bowl Gasket..... P/N 07-00307 ..... ---

ROTAX FLOAT CHAMBER 261-010

This Float Chamber replaces a single float bowl. For dual carb applications, order two.
P/N 261-010 ..... ---

BING CARBURETOR ACCESSORIES

Remote Choke Kit (w/8' cable)..... P/N 07-00308..... ---
Remote Choke Kit (w/o cable) ..... P/N 07-00309..... ---
Aircraft Parts manual..... P/N 07-00310..... ---

BING JUNCTION BLOCKS

Bing junction block for dual Carb linkage on any Rotax engine. Three gang outlet can be used dual Carbs or with three way oil injection and dual Carbs. Converts a single throttle line into as many as three lines.
3" Junction Block..... P/N 15-05033 ..... ---

CARBURETOR SYNCHRONIZATION

CARBMATE - Quick & easy synchronizing by direct comparison of a set of carbs / Fuel Injector throttle bodies. Range adjustable from 2 to 0,05cmHg per LED. Hook up 2 or 5 cylinder with the optional adapter kit.
CarbMate..... P/N 07-19346 ..... ---
With Rotax 912/914 Accessory Kit.
P/N 07-01891 ..... ---

4-CHANNEL ADAPTER KIT

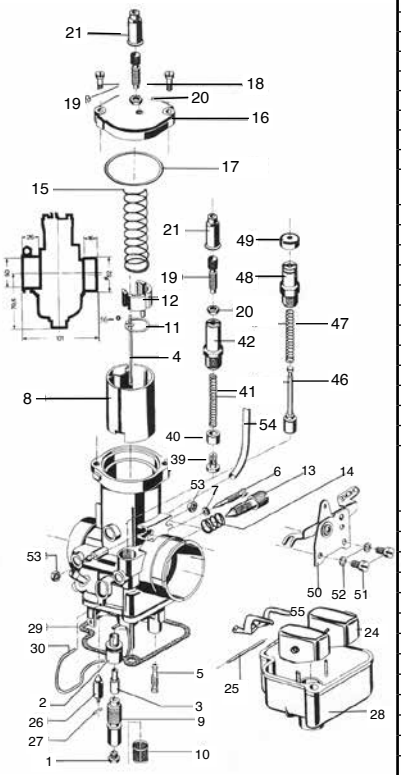
Converts the SynchroMate or CarbMate into a 4 carb/throttle valve synchronizer. This easy-to-mount & easy-to-use kit allows connection of SynchroMate's or CarbMate 2 channels (tubes) to 4 carbs / throttle valves at once.
P/N 07-01267 ..... ---

Accessories	Part No.	Price
4-channel adapter kit TS-220	07-01267	---
Rotax adapter w/ 2X6 ft hose TS-400	07-01889	---
Rotax accessory kit TS-400 KIT	07-01890	---
Rotax black nylon storage case TS-222	07-01893	---
Rota rubber black holster TS-223	07-01894	---
Rotax replacement 6 ft rubber hose	07-01895	---

ROTAX THROTTLE SPRING

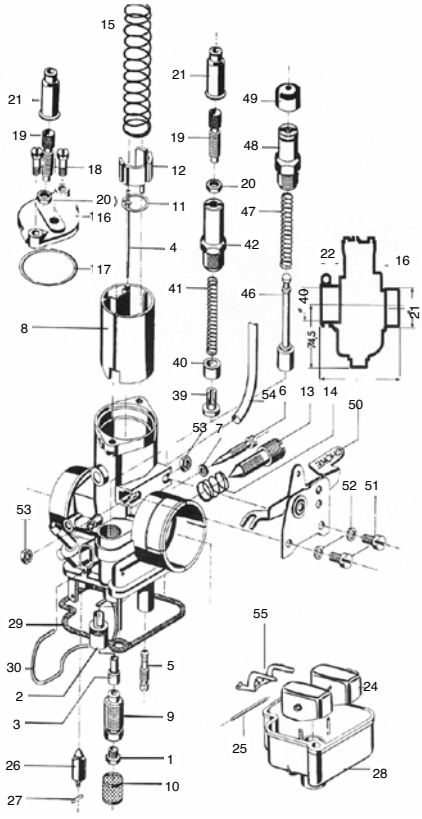
Alternate throttle return spring for Rotax 912/914 series engines ... P/N 08-06858 ..... ---

REPLACEMENT PARTS – TYPE 54



No.	Part No.	Description	Price
1	268-978-998	Main Jet	---
2	251-554	Atomizer	---
3	963-691-699	Needle Jet	---
4	963-711-719	Jet Needle	---
5	963-140-147	Idler Jet	---
6	963-155	Air Screw	---
7	831-710	O Ring	---
8	963-679	Piston	--
9	963-700	Mixing Tube	---
10	261-625	Sieve Sleeve	---
11	963-500	Clip	---
12	827-347	New Style Spring Cup	---
13	963-160	Mix Screw	--
14	938-640	Spring	---
15	938-655	Slide Spring	---
16	963-720	Cover Plate	---
17	831-450	O Ring	--
18	241-430	Screw	---
19	241-440	Adjuster	---
20	942-541	Nut	--
21	260-370	Grommet	---
24	861-181	Indep. Float	--
26	261-705	Float Needle	---
27	261-710	Clip	--
28	261-010	Bowl Kit (bowl, 24-27, 55) *Float Needle Valve not incl.	---
29	830-720	Gasket	--
30	963-180	Bowl Clip	---
39	963-740	Piston	---
40	268-850	Sleeve	---
41	661-050	Spring	---
42	963-750	Housing	---
46	268-847	Piston	---
47	239-730	Spring	--
48	261-770	Housing	---
49	260-490	Rubber Cap	--
50	261-755	Choke Lever	---
51	240-791	Screw (51) & Washer (52)	--
52	945-750		
53	261-200	Nut	---
54	256-035	Vent Tube	---
55	861-190	Float Arm	--
56	831-715	Jet Needle O Ring	---

REPLACEMENT PARTS – TYPE 84



No.	Part No.	Description	Price
1	268-980	Main Jet 135	---
2	261-692	Atomizer	---
3	261-606	Needle Jet 262	---
4	261-643	Jet Needle 8H1	---
5	963-140	Idler Jet 50	---
6	963-155	Air Screw	---
7	831-710	O Ring	---
8	261-635	Piston	---
9	963-130	Jet Stock	---
10	261-625	Screen	---
11	261-650	Holding Plate	---
12	227-635	Spring Cup	--
13	963-160	Mix Screw	---
14	938-640	Spring	---
15	239-700	Slide Spring	--
16	261-660	Cover	---
17	261-670	O Ring	---
18	241-430	Screw	---
19	241-440	Adjust. Screw	---
20	942-541	Nut	--
21	260-370	Grommet	---
26	261-705	Float Needle	---
27	261-710	Clip	--
28	963-170	Bowl	---
29	830-720	Gasket	--
30	963-180	Bowl Clip	---
39	963-740	Piston	---
40	268-850	Sleeve	---
41	661-050	Spring	---
42	963-750	Housing	---
46	268-847	Piston	---
47	239-730	Spring	--
48	261-770	Housing	---
49	260-490	Rubber Cap	--
50	261-750	Lever	---
51	240-791	Screw (51) & Washer (52)	--
52	945-750		
53	261-200	Nut	---
54	256-033	Vent Tube	---

EP

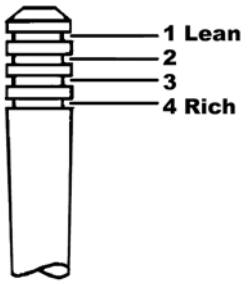
WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CARBURETOR JETTING CHART FOR ROTAX® UL ENGINES

Use this chart to identify part number you need, then use bottom chart to select correct part number to order.

ROTAX® ENGINE	--- MAIN JET	--- IDLER JET	--- NEEDLE JET	--- JET NEEDLE	CLIP POSITION	AIR SCREW
2771	148	45	2.72	8L2	2	1
2772	140	45	2.72	8L2	2	1
3771	165	45	2.70	8O2	2	.5
3772	155	45	2.70	8O2	2	.5
4471	165	45	2.70	15K2	2	.5
4472	155	45	2.70	15K2	2	.5
447DC1	135	50	2.70	6G1	3	1
447DC3	128	50	2.68	15K2	2	1
503SC1 Up to #3785371	180	45	2.74	8G2	3	.5
503SC2 Up to #3785371	158	45	2.74	6H2	3	.5
503SC1 From #3785372 Up	185	45	2.72	15K2	3	.5
503SC2 From #3785372 Up	165	45	2.70	15K2	3	.5
503DC1	158	45	2.74	8L2	1	.5
503DC3	148	45	2.68	11K2	2	1
532SC1	195	55	2.74	15K2	3	1
532SC3	170	55	2.74	15K2	3	1
532DC1	165	55	2.72	11G2	3	1
532DC3	145	55	2.68	15K2	3	1
5821	165	55	2.72	11G2	3	1
5823	145	55	2.68	15K2	3	1



1 = Without Rotax® intake silencer kit, with K&N RC1200 air filter, with or without Rotax® after muffler kit.

2 = With Rotax® intake silencer kit, with K&N CM0300 air filter, with or without Rotax® after muffler kit.

3 = With Rotax® dual intake silencer kit, with K&N RC1200 air filters, with or without Rotax® after muffler kit.

MAIN JET

125 = Part No. R268-978
128 = Part No. R261-085
130 = Part No. R268-979
135 = Part No. R268-980
138 = Part No. R268-998
140 = Part No. R268-981
145 = Part No. R268-982
148 = Part No. R268-995
150 = Part No. R268-983
155 = Part No. R268-984
158 = Part No. R268-996
160 = Part No. R268-985
162 = Part No. R268-990
165 = Part No. R268-986
170 = Part No. R268-987
175 = Part No. R268-988
180 = Part No. R268-989
185 = Part No. R261-080
190 = Part No. R261-084
195 = Part No. R268-992
200 = Part No. R261-082
205 = Part No. R261-087
220 = Part No. R261-081

IDLER JET

30 = Part No. R963-141
35 = Part No. R963-143
40 = Part No. R963-142
45 = Part No. R963-144
50 = Part No. R963-140
55 = Part No. R963-147
60 = Part No. R963-145
65 = Part No. R963-146

NEEDLE JET

2.62 = Part No. R261-606
2.68 = Part No. R963-691
2.70 = Part No. R963-698
2.72 = Part No. R963-697
2.74 = Part No. R963-699
2.76 = Part No. R963-693
2.78 = Part No. R963-696
2.80 = Part No. R963-695
2.82 = Part No. R963-694
2.94 = Part No. R961-022

JET NEEDLE

2H2 = Part No. R963-717
4E2 = Part No. R963-716
6G1 = Part No. R261-642
6H2 = Part No. R963-719
6P2 = Part No. 15-05029
8G2 = Part No. R963-712
8H1 = Part No. R261-643
8L2 = Part No. R963-714
8O2 = Part No. R963-711
1O = Part No. R961-045
11G2 = Part No. R961-043
11K2 = Part No. R961-044
15K2 = Part No. R963-718

NEEDLE CLIP

P/N 07-00693 ..... ---

Lower numbers indicate smaller jet size or opening.
Low numbers = lean.
High numbers = rich.
First needle number denotes mixture above half-throttle.
Needle letter denotes mixture below half-throttle.

ROTAX THROTTLE SPRINGS 6822

A common complaint about the Rotax 912/914 engines is that the throttle return springs are too strong. McFarlane stocks a variety of springs so you can choose the one that best fits your application. All McFarlane throttle controls for Rotax engines include P/N 6822 spring. Less than half the strength of the original stock Rotax springs. Prevents throttle "creep" due to excessive return spring force. Requires 1 per carburetor (2 per engine) **Note:** Installer is responsible for determining whether this spring is an appropriate substitution for their application. For use on non-certified aircraft.

P/N 05-12477 ..... **--- ea.**

BING DUAL CARB GASKET KIT ROTAX

Quantity: 2 Carbs. "O" Rings: Biggest - Jet Stock, Next Down - Throttle Shaft, Green - Choke Disk, 4 small - Idle Jet & Idle Air Screw, and Smallest - Jet Needle.
For 912.....P/N 15-09421 ..... ---
For 914.....P/N 15-09422 ..... ---

KWIK TUNE FOR ROTAX ENGINES

The handy Kwik Tune, a timesaving tool launched at Sun 'n Fun. Kwik Tune helps remove and reinstall the aircraft throttle cable, cover, spring, and slide in a Bing carburetor.
P/N 08-05206 ..... ---

CARB CLEANING BRUSH

3/16" Tube, .005 Nylon, 2" BP, 6" OAL Can be used in the cleaning of internal bores and cylindrical cavities. Good for light duty jobs applying either wet or dry ingredients or cleansers. Sturdy twisted wire handles feature loop for easy grip.....P/N 15-08286 ..... ---

Fuel Pump

MIKUNI FUEL PUMP

Genuine Mikuni fuel pumps. Replace original parts on Rotax®, Hirth, & many other engines.
Single Pump.....P/N 07-00777 ..... ---
Dual Pump.....P/N 07-00778 ..... ---

Rebuild Kits

MIKUNI REBUILT KIT FOR SINGLE/DUAL FUEL PUMPS

Single Pump .....P/N 07-01011 ..... ---
Dual Pump .....P/N 07-01010 ..... ---

MIKUNI FLOAT CHAMBER PLUG

Mikuni Float Chamber Plug.
P/N 15-05548 ..... ---

NYLON STARTER ROPE

The perfect replacement rope for worn-out manual starters ..... P/N 13-03922 ..... **--- per ft.**

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FUEL INJECTION SERVOS – FLOW DIVIDERS

PRECISION AIRMOTIVE

Precision Airmotive now feature's competitively priced OEM factory overhauled RSA Fuel Injection Servo's & Flow Dividers. As the OEM manufacturer, they ensure 'out of the box' performance of these overhaul units by completing both full flow dynamic and static analysis, verifying fuel delivery performance from idle to full throttle. Since 1988, Precision Airmotive has set the industry standard for fuel injection systems by supporting the general aviation industry with time tested quality products that meet the highest standards.
Note: Aircraft Spruce carries Precision Airmotive replacement parts and accessories, contact us for pricing and availability.

FUEL INJECTION SERVOS

Model No.	Part No.	Engine	Airframe	New Exchange		Rebuilt Exchange		Overhaul Exchange	
RSA-5AD1	2576536-2	IO-360-L2A	Cessna 172	07-02770	---	07-02772	---	07-02773	---
	2524054-11	IO-360/540 & various	Mooney 201& others	07-02775	---	07-02776	---	07-02777	---
	2576544-3	IO-540-AB1A5	Cessna 182	07-02778	---	07-02779	---	07-02780	---
	2524450-9	IO-360-AB1/C1C/C1C6	Piper, Arrow, Cherokee, Lake Buccaneer	07-02781	---	07-02782	---	07-02783	---
RSA-10ED1	2524500-9	LTIO-540-F2BD/J2B/J2BD TIO-540-F2BD/J2B/J2BD	Piper Navajo PA-31-325 Chieftain PA-31-350	07-02784	---	07-02785	---	07-02786	---
	2524273-12	IO-540-K1A5/K1A5D/K1G5	Piper Saratoga/Lance	07-02787	---	07-02788	---	07-02789	---
	2576562-4	TIO-540-AJ1A	Cessna T206	07-02791	---	07-02792	---	07-02793	---
	2576630-4	IO-540-AE1A5	Robinson R44	07-02794	---	07-02795	---	07-02796	---

FLOW DIVIDERS

Precision Airmotive stands proudly as a world leader in the manufacturing of fuel controls for general aviation. By providing fuel injection systems for certified aircraft and electronic engine management systems for experimental aircraft, Precision Airmotive is leading the way in general aviation.

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Part No.	Engine	Configuration	New Exchange		Rebuilt Exchange		Overhaul Exchange	
2524232-2	IO-320, IO-360, IO-540	2 PSI spring, no vent tube	07-02799	---	07-02801	---	07-02983	---
2576526-1	IO-540	4 PSI spring, no vent tube	07-02802	---	07-02981	---	07-02803	---
2576564-1-F	IO-320, IO-360, IO-540		07-02797	---	07-02798	---	07-24458	---

FOR TURBO APPLICATIONS, UNLISTED SERVOS, & FLOW DIVIDERS CALL OR EMAIL AIRCRAFT SPRUCE FOR PRICING.

PRECISION CF631282 PLUNGER

The Precision CF631282 Plunger is for Continental Motor's Fuel Manifold. .....P/N 07-21651 ..... ---

PRECISION AIRMOTIVE SEALS

Precision Airmotive Seal CFLR47101 .....P/N 07-27022 ..... ---
Precision Airmotive Seal CFLR47108 .....P/N 07-27023 ..... ---

PRECISION AIRMOTIVE BUSHING, THROTTLE BODY

Bushing, Throttle Body CF630455 .....P/N 07-27010 ..... ---
Bushing, Throttle Body CF630455-2 .....P/N 07-27011 ..... ---
Bushing, Throttle Body CF630455-3 .....P/N 07-27012 ..... ---
Bushing, Throttle Body CF630455-4 .....P/N 07-27013 ..... ---
Bushing, Throttle Body CF631183-2 .....P/N 07-27014 ..... ---
Bushing, Throttle Body CF631183-3 .....P/N 07-27015 ..... ---

PRECISION AIRMOTIVE VALVE, NEEDLE AUTO 2537860-F

Valve, Needle Auto 2537860-F .....P/N 07-27004 ..... ---

PRECISION AIRMOTIVE GASKET CF649983

Precision Airmotive Gasket CF649983
P/N 07-25725 ..... ---

PRECISION AIRMOTIVE THROTTLE STOP PIN

Throttle Stop PIN CF626812 .....P/N 07-27009 ..... ---
Throttle Stop PIN CF655791 .....P/N 07-27021 ..... ---

PRECISION AIRMOTIVE VALVE & HOUSING ASSY

Precision Airmotive Seal CFLR47101 .....P/N 07-27024 ..... ---
Precision Airmotive Seal CFLR47108 .....P/N 07-27025 ..... ---

PRECISION AIRMOTIVE LEVER ASSEMBLY, IDLE 2537857B-F

Lever Assy, Idle 2537857B-F .....P/N 07-27003 ..... ---

TEMPEST REBUILT FUEL SERVOS/EXCHANGE

Available only from the factory. These units are also built to factory new specifications and bench checked on an air-box flow bench to OEM original specifications and drawings. **Note**: A body or a center body may be used in a rebuilt servo; however, these components must meet factory new specifications and drawings.

CF P/N	Model No.	Part Number	Price
2524145-12RSA	-5AD1	07-00403	---
2524147-13RSA	-5AD1	07-00404	---
2524189-11RSA	-5AD1	07-00407	---
2524213-11RSA	-5AD1	07-00408	---
2524307-10RSA	-5AD1	07-00458	---
2524335-10RSA	-5AD1	07-00460	---
2524592-B	RSA-5AD1	07-00470	---

TEMPEST FUEL SERVO QUICK KITS

The next time you rebuild your fuel components, don't spend time on the phone chasing parts, just order a "Quick Kit" and take the hassle out of your rebuilt. Quick Kits include the mandatory replacement parts, plus the parts used by fuel professionals to insure the job is done right!

Fuel Servo #	Model No.	Our Part No.	QuickKit#	Price
RSA-5AD1	All Models	07-00563	CFK-5AD1	---

TEMPEST A76284 FLUID TICKER PUMP

Fluid Ticker Pump.....P/N 05-27357 ..... ---

FUEL PUMP BLADE

Fuel Pump Blade 2617-1 .P/N 07-24459 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FUEL PUMPS

LYCOMING & CONTINENTAL FUEL PUMPS

Proven to be a trouble-free mechanical pressure pump. Original equipment on numerous airframe installations and adaptable to most applications with one of 3 dual diaphragm types. Overboard vent of this design provides operating assurance throughout all flights.

Engine Type	Engine Model No.	Our P/N	Lycoming Part No.	Our Price
Lycoming	O-235, O-290, O-320, O-340, O-360, HO-360, GO-480, O-540, VO-540	07-00704	LW15472 41271 4-6 PSI	---
	IO-320, IO-360, AIO-360, HIO-360, IVO-360, IO-540, IGO-540, IO-720	07-00705	LW15473 41234 (old 40296) 25-30 PSI	---
Continental	Can be used on A/C who formerly used medium pressure 15 PSI (PS5)	41272 (old 40595) 25-30 PSI	LW15473	---
	C-90 (-16F), 0-200	05-19050	AF631391	---

Lycoming Fuel Pump Gasket For LW15473 ..... P/N 60096 ..... ---

Adapter pump thread to AN fittings using AC Fuel pump adapters:
Fitting...P/N 75505 ... --- Fitting & O-Ring .....P/N 75505-1 ..... ---

LYCOMING/AC FUEL PUMP FITTINGS

07-00783 **07-00782** **07-00780** **07-00781**

These fittings are designed to fit mechanical fuel pumps used on Lycoming engines. These fittings feature 3/8" AN flare outlets for connection to aircraft hoses, and are available in straight, 45° and 90° angle versions. **Note**: These fittings are not certified.

Straight fitting .....P/N 07-00780 ..... ---
45° fitting .....P/N 07-00781 ..... ---
90° fitting .....P/N 07-00782 ..... ---
Tee fitting w/1/8" pipe thread tapping for fuel pressure.....P/N 07-00783 ..... ---

LYCOMING FUEL PUMP GASKET FOR LW15473

Gasket for Lycoming Gasket LW15473.
P/N 60096 ..... ---

LYCOMING FUEL PUMP ADAPTER GASKET

Lycoming fuel pump adapter gasket. 69164. Dimensions (w x l x h): 2.75 in. X 3.19 in. X 0.07 in.
Lycoming.....P/N 07-03552 ..... ---
Superior.....P/N 08-11839 ..... ---

ACS FUEL PUMP COOLING SHROUD

Designed to keep the fuel pump cooler in the hot engine compartments, and reduce the risk of fuel vapor lock. The cooling shroud will fit carbureted or fuel injector Lycoming engines using a diaphragm style pump. Made in the U.S.A. .....P/N 08-06097 ..... ---

AEROTAR LEFT LYCOMING FUEL MANIFOLD BRACKET

Aerotar Left Lycoming Fuel Manifold Bracket (07A22996)
P/N 08-15786 ..... ---

PIPER FUEL PUMP CA62220-004

Unconditional one year warranty. Internal check valve to prevent backflow. Modern solid state pump - More dependable and uses less current than the old breaker point pumps. When this pump is installed the existing connector in the aircraft is re-used. 24 Volt system. The 3 amp circuit protection kit is not included with this pump. This pump will not operate from a battery charger. It must have a battery DC current. Replacement filter kit p/n CA42370. * **Not approved for use in fuel injection aircraft.**
P/N 05-28839 ..... ---

TEMPEST LYCOMING & TCM FUEL PUMPS

OVERHAULED LYCOMING FUEL PUMPS

All internal parts are replaced with new certified parts. The actuating arms are magnetic particle test inspected; cast parts are inspected for wear, corrosion and cracks. Both the older laminated and newer channel style fuel pumps are overhauled for normally aspirated, pressure carburetor, and fuel injected systems.

Note: Customer will need to provide core for overhaul in the event our supplier does not have cores available to overhaul.

MMO	Description	Part No.	Price
Overhauled Lycoming & TCM Diaphragm Fuel Pumps			
40174	Fuel Pump - Overhauled	05-02530	---
40296	Fuel Pump - Overhauled	05-02531	---
40595	Fuel Pump - Overhauled	05-19015	---
41234	Fuel Pump - Overhauled	05-02532	---
41270	Fuel Pump - Overhauled	05-02533	---
41271	Fuel Pump - Overhauled	05-02534	---
41272	Fuel Pump - Overhauled	05-02536	---
41452	Fuel Pump - Overhauled	05-02537	---
41812	Fuel Pump - Overhauled	05-02539	---
75246	Fuel Pump - Overhauled	05-02540	---
75247	Fuel Pump - Overhauled	05-02541	---
103396-01	Fuel Pump - Overhauled	05-02542	---
103586-01	Fuel Pump - Overhauled	05-02543	---
LW14282	Fuel Pump - Overhauled	05-02544	---
LW15399	Fuel Pump - Overhauled	08-15399	---
LW15472	Fuel Pump - Overhauled	05-19000	---
LW15473	Fuel Pump - Overhauled	05-19010	---
LW16335	Fuel Pump - Overhauled	05-02545	---
LW16775	Fuel Pump - Overhauled	05-02546	---
LW16947	Fuel Pump - Overhauled	05-02547	---
R00253-1	Fuel Pump - Overhauled	05-02549	---
R00253-2	Fuel Pump - Overhauled	05-02551	---
R00253-501	Fuel Pump - Overhauled	05-02552	---
R00253-502	Fuel Pump - Overhauled	05-02554	---
AF1572	Fuel Pump - Overhauled	05-19000	---
AF15473	Fuel Pump - Overhauled	05-02556-1	---
New Lycoming Diaphragm Fuel Pumps			
AF15472	Fuel Pump - New	05-02555	---
AF15473	Fuel Pump - New	05-02556	---
Overhauled TCM Centurion Fuel Pumps			
4036/9076	Fuel Pump - Overhauled	05-19030	---
6861	Fuel Pump - Overhauled	05-19035	---
9051	Fuel Pump - Overhauled	05-19025	---
9867	Fuel Pump - Overhauled	05-21694	---
40585	Fuel Pump - Overhauled	05-02557	---
40695	Fuel Pump - Overhauled	05-02558	---
AF40585	Fuel Pump - Overhauled	05-02557	---
AF631391	Fuel Pump - Overhauled	05-19050	---
New TCM Centurion Fuel Pumps			
AF6561	Screen Kit	05-02560	---
AF16335	Fuel Pump - New	05-02561	---
AF40585	Fuel Pump - New	05-02564	---
AF40695	Fuel Pump - New	05-02565	---
AF631391	Fuel Pump - New	05-19050	---

CORE CHARGE ON TEMPEST OVERHAULED FUEL PUMPS.

EP

TEMPEST PLATINUM ELECTRONIC FLUID PUMPS

Tempest Platinum Electronic Fluid Pumps - from the brand you trust for quality and innovation. These new pumps have been designed from the ground up and will replace many of the Facet Gold-Flo fluid pumps that are no longer available to the aviation market. The Tempest Platinum electronic fluid pumps are FAA/PMA certified and designed with the modern 14 to 28 volt system in mind. These pumps use an internal high-flow filter element that can be easily replaced when specified by aircraft maintenance manuals.

Tempest® Part No	Facet Part No	OEM Part Number	Pump Description	Volts	PSI	Airframe Eligibility	Part No.	Price
Beechcraft								
A76284	476284	476439 or 58-920054-11	Fuel Pump, Heater	28	6-8	95-55, 95-A55, 95-B55, 95-C55, D55, E55, B95, B95A, D95A, E95, E55, 56TC, A56TC, 58, 58P, 58TC, G58, 60, A60, B60	05-27357	---
A76284	476284	476439 or 58-920054-11	Pump, Alcohol/Anti-Ice	28	6-8	95, B95, B95A, 95-55, 95-A55, 95-B55, 95-B55A, D95A, E95, D55, D55A, E55, 58, G58, A65, 65-B80 and 70	05-27357	---
A76284	476284	476439 or 58-920054-11	Pump, Fuel Return	28	6-8	99, 99A, A99A, B99, 100, A100, 200, 200C and 200T	05-27357	---
A76284	476284	476439 or 58-920054-11	Fuel Pump, Aux Engine	28	6-8	C90, C90A, C90GT, E90, F90, and C99	05-27357	---
A76411	476411	58-920054-9	Fuel Pump, Aux Engine	28	4-5	95, B95, B95A and D95A	05-27358	---
A80591	480591	477983 and 58-920054-3	Fuel Pump, Aux Engine	14	5-6	B19	05-27503	---
Cessna								
A76284	476284	C291506-0101, 9910088-3 or 9910004-3, -12	Fuel Pump, Heater	28	6-8	310P, 310Q, 320, 340, 414, 421 and 421B	05-27357	---
A76284	476284	C291506-0101, 9910088-3 or 9910004-3, -12	Fuel Pump, Tip Tank	28	6-8	401, 402 and 414	05-27357	---
A76411	476411	5118721-1, 6508091-1 or 6508092-1, -4	Fuel Pump, Heater	28	4-5	335	05-27358	---
A76411	A76411	5118721-1, 6508091-1 or 6508092-1, -4	Fuel Pump, Tip Tank	28	4-5	310Q, 310R, 340, 401, 402, 402B and 414	05-27358	---
A76411	476411	5118721-1, 6508091-1 or 6508092-1, -4	Pump, Alcohol/Anti-Ice	28	4-5	335, 402, 404, 421, 425, 441, 500, 501, 525, 550, 560 and 650	05-27358	---
A80564*	480564	480563	Fuel Pump, Aux Engine	28	4-5	152, A152, F152, FA152, 172N, 172P, 172Q, 310K, 310L, 310N, 310P, 310Q, 310R, T310P, T310Q, T310R, 320D, 320E, 320F, 340, 340A, 401, 401A, 401B, 402, 402A, 402B, 411, 411A, 414, 421, 421A, 421B or 421C	05-27502	---
All A80564 Pumps Must Use The Appropriate Griggs Stc. They Can Be Found On Pma #Pq1206ce.								
American General (Grumman)								
A76411	476411	n/a	Fuel Pump, Aux Engine	28	4-5	AG-5B	05-27358	---
A78360	478360	TAES2100-3	Fuel Pump, Aux Engine	14	4-5.5	AA-1, AA-1A, AA-1B and AA-1C	05-27500	---
Piper Aircraft								
A76088	476088	62220-004, 481-678	Fuel Pump, Aux Engine	28	4- 5.5	PA-23, PA23-160, PA-23-235, PA-E23-250, PA-23-250 (Navy UO-1)	05-27499	---
A76088	476088	461-740, 622204-004	Fuel Pump, Aux Engine	28	4- 5.5	PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28R-180, PA-28-181, PA-28-235	05-27499	---
A78360	478360	35328-800, 481-666	Fuel Pump, Aux Engine	14	4- 5.5	PA-23, PA-23-160, PA-23-235, PA-E23-250, PA-23-250 (Navy UO-1)	05-27500	---
A78360	478360	481-666	Fuel Pump, Aux Engine	14	4- 5.5	PA-24-250	05-27500	---
A78360	478360	481-666	Fuel Pump, Aux Engine	14	4- 5.5	PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-161, PA-28R-180, PA-28-181, PA-28-235	05-27500	---
A78360	478360	481-666	Fuel Pump, Aux Engine	14	4- 5.5	PA-38-112	05-27500	---
A80543	480543	481-701	Fuel Pump, Aux Engine	14	6.5-8	PA-28-236	05-27501	---
A80543	480543	481-701	Fuel Pump, Aux Engine	14	6.5-8	PA-32-260 and PA-44-180	05-27501	---
A80543	480543	481-842	Fuel Pump, Heater	14	6.5-8	PA-44-180	05-27501	---
A80564*	480564	---	Fuel Pump, Aux Engine	28	4-5	PA-31, PA-31-325, PA-31-350 and PA-34-220T	05-27502	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FACET FUEL PUMPS

IMPORTANT: FACET FUEL PUMPS ARE NOT FAA APPROVED AND ARE NOT INTENDED FOR AIRCRAFT USE.

FACET SOLID STATE ELECTRIC FUEL PUMPS

These pumps measure less than 3" in any direction and weigh only 18 oz. Fuel is supplied as soon as the ignition is turned on so the engine will start faster at colder temps. Built-in pressure relief prevents flooding and assures fast re-starts on hottest days. The all-steel plated case is water tight. Mounts with two bolts. For best results, mount the pump close to the fuel tank and below the liquid level.

The tank is self-priming to 12" to 36" Lift min dry. Standard 12 V models require only 1 amp at max. delivery.

Facet No.	Volts	PSI Max-Min	GPH	Fitting Size	Lift Min. Dry	Check Valve	Positive Shut Off Valve	Description	Part No.	Price
40100N	12	7.0-4.0	32	1/8 - 27 INT	36"	N	N	40106 Kit - Nuts, Washers, Bolts, Fittings	05-10771	---
40102N	12	4.0-1.5	25	1/8 - 27 INT	12"	N	N	Kit - Nuts, Washers, Bolts, Fittings	05-10773	---
40104	12	4.0-1.5	25	1/8 - 27 INT	12"	N	N	Facet Solid State	05-00799	---
40105	12	4.5-3.0	30	1/8 - 27 INT	12"	N	N	Facet Solid State	40105	---
40106	12	7.0-4.0	32	1/8 - 27 INT	36"	N	N	Facet Solid State	40106	---
40163	12	2.5-1.5	17	1/8 - 27 INT	24"	Y	N	Facet Solid State	40163	---
40164	24	6.0-4.5	32	1/8 - 27 INT	12"	N	N	Facet Solid State	40164	---
40171	12	3.5-2.0	15	1/8 - 27 INT	12"	Y	Y	Facet Solid State	05-40171	---
40178	12	3.5-2.0	15	1/8 - 27 INT	36"	Y	Y	Facet Solid State	05-10781	---
40185	12	11.5-9.0	32	1/8 - 27 INT	36"	Y	N	Facet Solid State	05-10782	---
40288	12	4.5-3.0	30	1/8 - 27 INT	36"	Y	N	Facet Solid State	05-06860	---
40289	12	7.0 - 4.0	30	1/8 - 27 INT	36"	Y	N	Facet Solid State	05-06861	---
FEP-42SV	12	4.0-1.5	25	1/8 - 27 INT	12"	N	N	40104 Kit-Fuel Filter, Fuel Fitting, 2 Bolts & 2 Nuts	05-00809	---
FEP-42SV	12	4.0-1.5	25	1/8 - 27 INT	12"	N	N	40104 Kit-Fuel Filter, Fuel Fitting, 2 Bolts & 2 Nuts	05-00809	---

FACET GOLD-FLO INTERRUPTER TYPE PUMPS

Fuel Compatibility: All models of the Facet High Performance Gold-Flo Solid State Fuel Pumps are compatible with gasoline, diesel, biodiesel, blended alcohol fuels and fuel additives.

Reliability: The new Gold-Flo Solid State Fuel Pump is an enhanced version of our Interrupter model. It has Solid State circuitry and will meet or exceed all performance specifications and is totally interchangeable. (These pumps have demonstrated an endurance life almost double that of the nearest competitor, according to our test data).

Easy to Install-Easy to Service: Two bolt mounting makes installations easy. Nothing to adjust. For best results, mount the pump close to the fuel tank and below the fuel level. The pump is self-priming to 24 inches vertical fuel lift. Vertical mounting is preferred to assure maintenance of rated pressures. An installation kit is available for replacement applications. The only service normally required is a simple cleaning of the filter and fuel inlet cavity.

Eliminates Vapor Lock: When properly installed on most vehicles a constant, smooth, dependable supply of fuel under pressure is assured in the hottest weather or in high altitudes.

Facet No.	Volts	PSI Max-Min	GPH	Fitting Size	Lift Min. Dry	Check Valve	Part No.	Price
40007E	12	5.5-4.0	36	1/4"-18 Int.	24"	N	05-10842	---
40131E	12	5.5-4.0	34	1/8"-27 Int.	24"	N	480545	---
476088	24	5.0-4.0	32	1/8"-27 Int.	24"	N	476088	---
476087E	12	5.5-4.0	36	1/8"-27 Int.	24"	N	05-10832	---
476459E	12	8.0-6.5	32	1/8"-27 Int.	24"	N	05-10833	---
477060E	12	4.0-2.75	34	1/8"-27 Int.	24"	N	05-10835	---
480534E	12	8.0-6.0	45	1/4"-18 Int.	24"	N	05-00802	---

AEROQUIP FITTING FOR FACET PUMPS

On the recommendation of Rutan Aircraft Factory, we now stock Aeroquip #2071-6-6S fitting which is a steel elbow with a swivel nut which fits the 37 flares on the Facet 40108 and 40154 fuel pumps. This Aeroquip fitting makes installation of the pumps easy & economical.

P/N 04-05800 ..... ---

FACET POSI-FLO SOLID STATE FUEL PUMPS

• Fuel Compatibility: All models of the Facet Posi-Flo Pumps are compatible with gasoline, diesel, biodiesel, blended alcohol fuels and fuel additives.
• Reliability: Proven on thousands of original equipment applications. No bearings, electrical contacts, or diaphragms to wear out or fatigue. Lasts four to five times longer than many other electric pumps.
• Easy to Install-Easy to Service:Two bolt installation plus the small size makes installation easy. For best results, mount the pump close to the fluid or fuel tank and below the liquid level.
• Eliminates Vapor Lock: When properly installed on most vehicles a constant, smooth, dependable supply of fuel under pressure is assured in the hottest weather or in high altitudes.

Facet No.	Volts	PSI Max-Min	GPH	Fitting Size	Lift Min. Dry	Check Valve	Part No.	Price
60106	12	7.0-4.0	32	1/8 - 27 INT	12"	N	05-10856	---
60245	12	4.0-1.5	23	1/8 - 27 INT	12"	N	05-10880	---
60300	12	4.0-2.5	20	1/8 - 27 INT	50"	Y	05-06862	---
60301	12	5.0-3.5	30	1/8 - 27 INT	50"	Y	05-06863	---
60302	12	7.0-5.0	32	1/8 - 27 INT	50"	Y	05-06864	---
60303	12	10.0-7.0	34	1/8 - 27 INT	50"	Y	05-10881	---
60304	12	2.0-1.0	15	1/8 - 27 INT	24"	Y	05-10882	---

FACET DURA-LIFT FUEL PUMPS

• Application: Refrigeration trucks, marine generator sets, diesel filtration systems, industrial applications, and other diesel lift applications. These pumps are rated for diesel fuel, gasoline, blended alcohol fuels, and fuel additives.
• Solid State Reliability: Proven on many original equipment applications No electrical contacts. No bearings or diaphragms to wear out or fatigue. Endurance life almost doubles that of our nearest competitor.
• Easy to Install-Easy to Service: Two bolt mounting makes installations easy. Nothing to adjust. The pump is self-priming to 120 inches (3.0 m). Vertical mounting is preferred to assure maintenance of rated pressures. The transparent housing allows for visual capability to monitor the cleanliness of the stainless steel filter.
• Eliminates Vapor Lock: When properly installed on most vehicles a constant, smooth, dependable supply of fuel under pressure is assured in the hottest weather or in high altitudes.

Facet No.	Volts	PSI Max-Min	GPH	Fitting Size	Lift Min. Dry	Check Valve	Part No.	Price
40222	12	11.5-9.0	33	1/8-27 Int.	120"	Y	05-10884	---
40285	12	7.0-4.0	33	1/8-27 Int.	120"	Y	05-10886	---

EP

WELDON FUEL PUMPS

WELDON NEW FUEL PUMPS

Over eighty years of reliable pump design, manufacturing, and support for aviation and military communities; we stand by the history of our quality and the quality of our history. Our AS9100 Registered and FAA PAH approved systems ensures quality and provides superior performance - making Weldon the choice of manufacturers and pilots.

Aircraft Make	Applicable Model	Weldon PMA Part No.	OEM Part No.	PMA Replaces Part No.	Part No.	Price
Casa	C212-CB, C212-CC, C212-CD, C212-CE, C212-CF, C212-DE, C212-DF	C4033-E	AC520068	N/A	08-10718	---
	C212-CB, C212-CC, C212-CD, C212-CE, C212-CF, C212-DE, C212-DF	4049-A	AC520068A	N/A	08-10717	---
Cessna	Numerous Single Engine - Visit our website for all parts.	18000-A	C291504-0101	4140-00-17	08-07082	---
Cessna	Numerous Single Engine - Visit our website for all parts.	18000-B	C291504-0201	4140-00-15	08-07083	---
Cessna	Most All Eligibilities As 18000-B Plus the T182 (S/N 18267716 and Up)	XC18000-B	C291504-0201, C291504-0202	4140-00-15, 1515-00-1NV	08-16345	---
Cessna	172R, 172S, 182S/T, T182T	18002-B8	5100-00-4	5100-00-1,-3,-4	08-10719	---
Cessna	172Q (S/N 17275869 thru 17276516), 172RG (S/N 172RG0891 and up), R182 (S/N R18201629 and up)	XC18025-B	C291504-0203, C291504-0204	1500-00-31, 1500-00-35	08-16346	---
Cessna	182	A8160-D	A8160-D	N/A	08-10720	---
Cessna	T182	A8185-B	A8185-B	N/A	08-10725	---
Cessna	206H	A10056-B	A10056-B	N/A	08-10721	---
Cessna	T206H	A10055-B	A10055-B	N/A	08-10726	---
Cessna	210N, T210N, 210R, T210R, P210N (S/N P21000761 thru P21000834), P210R	18000-B8	C291504-0205	1500-00-38	08-16347	---
Cessna	310, 320, 340 & 400 Series	18013-B	4140-00-153	4140-00-153	08-10722	---
Cessna	340A, 414, 421B	8150-B	8150-B	N/A	08-10723	---
Cessna	Cessna/Columbia LC40, LC-41, LC42 (14 VDC Only)	18055-2A8	5173-00-3	5173-00-3	08-17190	---
Cessna	Cessna/Columbia T240, LC41, LC42 (28 VDC Only)	18055-2B8	5544-00-1	5544-00-1	08-17191	---
Cirrus	SR20, SR22, SR22T	18050-2B8	11839-004	5217-00-3, 5217-00-9	08-16348	---
Commander	CPAC (Commander) 112, 112B	A8120-C	A8120-C	N/A	08-10727	---
Beechcraft (Textron Av.)	A23-24 (S/N MA-1 through MA-363), A24 (S/N MA-364 through MA-368), A24R (S/N MC-2 through MC-150), B24R (S/N MC-152 through MC-448, MC-450, MC-451), C24R (S/N MC-449, MC-452 through MC-673)	18035-A	1816-00-1, 1816-00-1NV, 1171-00-1	1816-00-1, 1816-00-1NV, 1171-00-1	---	---
Beechcraft (Textron Av.)	C24R (S/N MC-674 through MC-795)	18035-B	1817-00-1, 1817-00-1NV, 1420-00-1	1817-00-1, 1817-00-1NV, 1420-00-1	---	---
Beechcraft (Textron Av.)	A36 (S/N E-1946, E-2104, E-2111 thru E-3629, E-3631 thru E-3635, G36 (S/N E-3630, E-3636 and after)	18053-2B	"4613-00-5, 4613-00-3NV, 4613-00-3"	"4613-00-5, 4613-00-3NV, 4613-00-3"	08-17081	---
Beechcraft (Textron Av.)	J35 (S/N D-5062, D-5331 through D-5725), K35 (S/N D-5726 through D-6161), M35 (S/N D-6162 through D-6561), N35 (S/N D-6562 through D-6841), P35 (D-6842 through D-7309 - except D-7140), 35-33 (S/N CD-1 through CD-224, CD-233, CD-234, CD-236, CD-241, CD-246 through CD-250), 35-A33 (S/N CD- 225 through CD-232, CD-235, CD-237 through CD-240, CD-242 through CD-245, CD-251 through CD-387) 35-B33 (S/N CD-388 through CD-813) 35-C33 (S/N CD-814 through CD-1118, except CD-982), E33 (S/N CD-1119 through CD-1234), F35 (S/N CD-1235 through CD-1254)	18026-A	4140-00-1, 4140-00-1NV, 4140-00-7, 4140-00-7NV	4140-00-1, 4140-00-1NV, 4140-00-7, 4140-00-7NV	08-16170	---
Beechcraft (Textron Av.)	S35 (S/N D-7310 through D-7976), V35 (S/N D-7977 through D-8598), V35A (S/N D-8599 through D-9068), V35B (S/N D-9069 through D-10119 except D-10097), 35-C33A (S/N CE-1 through CE-179), E33A (S/N CE-180 thru CE-289), E33C (S/N CJ-1 thru CJ-25), 36 (S/N E-1 through E-184), A36 (S/N E-185 through E-1240 except E-1111), F33A (S/N CE-290 through CE-771 except CE-748), F33C (S/N CJ-26 through CJ-148), and G33 (S/N CD-1255 through CD-1304)	18021-A	4140-00-39, 4140-00-39NV	4140-00-39, 4140-00-39NV	08-14014	---
Beechcraft (Textron Av.)	V35B (S/N D-10097, D-10120 and after), A36 (S/N E-1111, E-1241 through E-2110 except E-1946 and E-2104), F33A (S/N CE-748, CE-772 and after), and F33C (S/N CJ-149 and after)	18021-B	1296-00-1, 1296-00-1NV	1296-00-1, 1296-00-1NV	08-14015	---
Beechcraft (Textron Av.)	36 (S/N E-1 through E-184), A36 (S/N E-185 through E-1240, except E-1111)	18021-A8	4258-00-15, 4258-00-15NV	4258-00-15, 4258-00-15NV	---	---
Beechcraft (Textron Av.)	B55 (S/N TC-1608 and after), E55 (S/N TE-938, TE-943 and after), 58 (S/N TH-1 through TH-2124), G58 (S/N TH-2125 and after)	XC18054-2B8	4404-00-7NV	4404-00-7NV	08-17082	---
Beechcraft (Textron Av.)	95-B55 & 95-B55A (S/N TC-955 thru TC-1607, except TC-1393 thru TC-1396 & TC-1402), 95-C55 & 95-C55A (S/N TC-350, TE-1 thru TE-451, except TE-50), D55 & D55A (S/N TE-452 thru TE-767), E55 & E55A (S/N TE-768 thru TE-942, except TE-938)	XC18054-2B8	4404-00-1, 96-380020-1	4404-00-1	08-17082	---

CORE CHARGES APPLY. SEE OUR WEBSITE FOR APPLICATION CHART.

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WELDON OVERHAULED FUEL PUMPS

Aircraft Make	Applicable Model (cont'd)	Weldon PMA Part No.	OEM Part No.	PMA Replaces Part No.	Part No.	Price
Beechcraft (Textron Av.)	95-B55 & 95-B55A (S/N TC-1608 thru TC-1969, TC-1971 thru TC-2002), E55 & E55A (S/N TE-938, TE-943 thru TE-1080, TE-1082 thru TE-1083), 58 & 58A (S/N TH-1 thru TH-2124), G58 (S/N TH-2125 and after)	XC18054-2B8	4404-00-7NV, 4404-00-1	4404-00-7NV, 4404-00-1	08-17082	---
Beechcraft (Textron Av.)	95-B55 & 95-B55A (S/N TC-1970, TC-2003 and after), E55 & E55A (S/N TE-1081, S/N TE-1084 and after), 58 & 58A (S/N TH-766, TH-773 thru TH-1535)	XC18054-2B8	4404-00-7NV, 4404-00-7	4404-00-7NV, 4404-00-7	08-17082	---
Beechcraft (Textron Av.)	95-A55, 95-B55, 95-B55A	XC18054-2B	96-380020	4613-00-1, 4613-00-1NV	08-17082	---
Beechcraft (Textron Av.)	D95A, E95, 95-55, 95-A55	18026-B	"4140-00, 4140- 00NV"	"4140-00, 4140- 00NV"	08-17188	---
Daher	TBM 700	2022-B	6097727225	N/A	08-10728	---
Diamond	DA20-C1 (S/N 0002 and up)	18052-2A	18052-2A	5367-00-1	08-16349	---
Diamond	DA-40, DA-42	18002-B	18002-B	5100-00-9	08-10729	---
Enstrom	F28-A, 280	A8110-G	A8110-G	N/A	08-10730	---
Enstrom	F-28C, 280C,F-28F, 280F, 280FX	A10019-D	A10019-D	N/A	---	---
Enstrom	F-28A, 280C, F-28F, 280F, 280FX	A10019-E	A10019-E	N/A	08-10732	---
Gippsland	GA8 AirVan S/N: GA8-00-004 through GA8-06-107 Service Bulletin SB-GA8-2005-30 Issue 3	8172-A	8172-A	4140 Series	08-10733	---
Gippsland	GA8 AirVan S/N GA8-00-004 through GA8-06-107 Service Bulletin SB-GA8-2005-30 Issue 3	A8172-A	A8172-A	4140 Series	08-10734	---
Found	FBA-2C1, FBA 2C2	A8120-D	A8120-D	N/A	---	---
Fuji	Fuji Heavy Industries FA-200-180 (14 vdc only)	18026-A	4140-00-1, 4140-00-1NV, 4140-00-7, 4140-00-7NV	4140-00-1, 4140-00-1NV, 4140-00-7, 4140-00-7NV	08-16170	---
Fuji	Fuji Heavy Industries FA-200-180 (28 vdc only)	18026-B	4140-00, 4140-00NV	4140-00, 4140-00NV	08-17188	---
Lake	Lake LA-4-200 (Revo, Inc)	18020-A	18020-A	18020-A	05-11890	---
Maule	(With Lycoming IO-540 engines and 14 VDC only) M-5-235C, M-6-235, M-7-235, MT-7-235, M-8-235, M-7-235A, M-7-235B, M-7-235C, MX-7-235, M-7-260, MT-7-260, M-7-260C, M-9-235	18021-A	1471-00-1, 1471-00-3, 1471-00-3CJ	1471-00-1, 1471-00-3, 1471-00-3CJ	08-14014	---
Maule	(with Lycoming O-320/-360/-540 engines and 14 VDC only) M-5-235C, M-5-180C, M-6-235, M-6-180, M-7-235, MX-7-235, MX-7-180, MXT-7-180, M-8-235, MX-7-160, MXT-7-160, MX-7-180A, MXT-7-180A, MX-7-180B, M-7-235B, M-7-235A, M-7-235C, MX-7-180C, MX-7-160C, MX-7-180AC, M-4-180V	18036-A	1184-00-1, 1184-00-3, 1184-00-3CJ	1184-00-1, 1184-00-3, 1184-00-3CJ	---	---
Mooney	M20C, M20D, M20G	8164-A	8164-A	N/A	08-14018	---
Mooney	M20C, M20D, M20G	18024-A	4140-00-21A	4140-00-21A	08-16169	---
Mooney	M20J (SN 24-0001 thru 24-2999)	A8163-A	A8163-A	N/A	07-00785	---
Mooney	M20J S/N thru 24-2999, M20K S/N thru 25-0999	18020-A	4140-00-19A	4140-00-19A	05-11890	---
Mooney	M20J (SN 24-3000 and up)	A8163-B	A8163-B	N/A	08-10735	---
Mooney	M20K Serial #25-001 to 25-0999	10054-A	10054-A	N/A	08-10736	---
Mooney	M20K Serial #25-1000 & up	10054-B	10054-B	N/A	08-10737	---
Mooney	M20M	A10051-D	A10051-D	N/A	08-10738	---
Mooney	M20R, M205	A8152-B	A8152-B	N/A	08-10739	---
Mooney	M20R, M20TN, M20U, M20V	18057-2B8	5791-00-1	5791-00-1	08-17192	---
Moravan/ Zlin	Moravan (Zin Z-143L)	A8150-B1	A8150-B1	N/A	08-10740	---
Moravan/ Zlin	Moravan (Zin Z-242L)	D8100-F	D8100-F	N/A	08-10741	---
Piper	Piper PA-23-160, PA-23-235, PA-23-250 Aztec	B8001-H	33959-2	N/A	08-10743	---
Piper	Piper PA23-235 Apache, PA-23-250 Aztec	B8001-G	33959-3	N/A	08-10742	---
Piper	Piper PA-24-250 Comanche (with IO-540-C1B5 only), PA 24-260 (with IO-540-D4A5 Only), PA-24-260 (with IO-540-N1A5 only)	18023-A	481-740	4140-00-218	08-14016	---
Piper	Piper PA-28R-180 PA28R-200 PA-28R-201,PA-28R-201T PA-28RT-201, PA-28RT-201T Arrow &Turbo	8120-G	481-780	N/A	08-08120	---
Piper	Piper PA-28R-201 Arrow	B8120-G	461-758	N/A	08-10744	---
Piper	Piper PA-31-P Pressurized Navajo	B10007-D	48885-2	N/A	08-10749	---
Piper	Piper PA-31-325, PA-31-300 Navajo	A10014-D44	42113-6	N/A	08-10746	---
Piper	Piper PA31-325, PA31-300, PA-31-350, PA31-350 (T-1020) Navajo	A10014-D40	42113-5	N/A	08-10748	---
Piper	Piper PA31-325, PA-31-350, PA31-350 (T-1020) Navajo	2B6-63WP	481-802	2B6-63	---	---
Piper	Piper PA31-325, PA-31-350, PA31-350 (T-1020) Navajo	2B6-64WP	481-801	2B6-64	---	---
Piper	Piper PA-31-350 Chieftain	A10014-D	53050-2	N/A	08-10747	---
Piper	Piper PA-32-301T PA-32R-301T PA-32RT-300T	10080-B	481-807	N/A	08-10750	---
Piper	Piper PA-32R-301T Saratoga Serial #'s 3257001 & up	10080-D	461-750	N/A	08-10751	---
Piper	Piper PA-42 1000 Cheyenne 400LS	4049-A	4049-A	N/A	08-10717	---
Pilatus	Pilatus B/N BN2A-2, 2A-3, BN2A-20, 21, BN2B-20, 21	A10050-D	354301024	N/A	08-10752	---
Robinson	Robinson R44	19001-B	D-743-3	N/A	08-10753	---

CORE CHARGES APPLY. SEE OUR WEBSITE FOR APPLICATION CHART.

WELDON OVERHAULED FUEL PUMPS

WELDON FACTORY OVERHAULED FUEL PUMPS

Weldon offers our pumps as a factory overhaul. With a weldon factory overhaul, we ensure proper technique and approved parts are utilized to return the pump to service.

Most popular factory overhauled pumps. All weldon pumps available as overhauled - see spruce website.

Description	Part Number	Price
2003-B OH Pump	08-14396	---
4049-A OH Unfeathering Pump	08-14229	---
8120-G/OH MAIN Aux Boost Pump	08-14248	---
81250-H OH Pump	08-14249	---
8150-B OH AUX Transfer Pump	08-14296	---
8163-A OH Pump	08-14306	---
8163-B OH Pump	08-14307	---
8172-A OH Pump	08-14313	---
10080-B OH Pump	08-14386	---
10080-D OH Pump	08-14387	---
18000-A OH MAIN Aux Boost Pump	08-14202	---
18000-B OH MAIN Aux Boost Pump	08-14203	---
18002-B OH MAIN Aux Boost Pump	08-14204	---
18002-B8 OH MAIN Aux Boost Pump	08-14205	---
18013-B OH FUEL Transfer Pump	08-14214	---
18020-A OH MAIN Aux Boost Pump	08-14217	---
18021-A OH MAIN Aux Boost Pump	08-14218	---
18021-A8 OH Pump	08-16168-1	---
18021-B OH MAIN Aux Boost Pump	08-14219	---
18022-B8 OH Pump	08-14220	---
18023-A OH MAIN Aux Boost Pump	08-14221	---
18028-B8 OH Pump	08-14222	---
19001-B OH Pump	08-14397	---
A8122-A OH Pump	08-14295	---
A8123-H/OH Pump	08-14264	---
A8150-B OH Pump	08-14326	---
A8150-B1 OH Pump	08-14327	---
A8160-D OH Pump	08-14333	---
A8172-A OH Pump	08-14341	---
A8185-B OH Pump	08-14350	---
A10014-D OH Pump	08-14375	---
A10014-D40 OH Pump	08-14376	---
A10014-D42 OH Pump	08-14377	---
A10014-D44 OH Pump	08-14378	---
A10050-D OH Pump	08-14360	---
A10051-D OH Pump	08-14361	---
A10055-B OH Pump	08-14364	---
A10056-B OH Pump	08-14365	---
A10063-A OH Pump	08-14366	---
B8001-G OH AUX Pump	08-14272	---
B8001-H OH AUX Pump	08-14273	---
B8110-F OH Pump	08-14276	---
B8110-G OH Pump	08-14277	---
B8120-G OH MAIN AUX Pump	08-14278	---
B8120-H OH Pump	08-14279	---
B10000-F OH Pump	08-14382	---
B10010-F OH Pump	08-14384	---
C8100-E OH Pump	08-14285	---
C8100-F OH Pump	08-14286	---
D8100-E OH Pump	08-14289	---
D8100-F OH MAIN AUX Pump	08-14290	---
T18009-B8 OH Pump	08-14223	---

WELDON FACTORY DUKES PUMP REPLACEMENT GUIDE

The preferred replacement by OEMs and Pilots alike. Made for continuous duty. The Choice for Performance, Safety, Durability – and we back it up!

PMA Replaces Part No.	Weldon PMA Part No.	Spruce Part No.	Spruce OH Part No.	Price
1184-00-3, 1184-00-3CJ	18036-A			
1171-00-1	18035-A			
1184-00-1	18036-A			
1296-00-1, 1296-00-1NV	18021-B	08-14015	08-14219	---
1420-00-1	18035-B			
1471-00-1	18021-A	08-14014	08-14218	---
1471-00-3, 1471-00-3CJ	18021-A	08-14014	08-14218	---
1500-00-31	XC18025-B	08-16346		
1500-00-35	XC18025-B	08-16346		
1500-00-38	18000-B8	08-16347		
1515-00-1NV	XC18000-B	08-16345		
18020-A	18020-A	05-11890	08-14217	---
1816-00-1, 1816-00-1NV	18035-A			
1817-00-1, 1817-00-1NV	18035-B			
4140-00, 4140- 00NV	18026-B	08-17188		
4140-00-1, 4140-00-1NV	18026-A			
4140-00-15	18000-B	08-07083	08-14203	---
4140-00-153	18013-B	08-10722	08-14214	---
4140-00-17	18000-A	08-07082	08-14202	---
4140-00-19A	18020-A		08-14217	---
4140-00-218	18023-A	08-14016	08-14221	---
4140-00-21A	18024-A			
4140-00-39, 4140-00-39NV	18021-A	08-14014	08-14218	---
4140-00-7, 4140-00-7NV	18026-A			
4258-00-15, 4258-00-15NV	18021-A8		08-16168-1	
4404-00-1	XC18054-2B8	08-17082		---
4404-00-7, 4404-00-7NV	XC18054-2B8	08-17082		---
4613-00-1, 4613-00-1NV	XC18054-2B	08-17082		---
4613-00-3, 4613-00-3NV	18053-2B	08-17081		---
4613-00-5	18053-2B	08-17081		---
5100-00-1	18002-B8	08-10719	08-14205	---
5100-00-3	18002-B8	08-10719	08-14205	---
5100-00-4	18002-B8	08-10719	08-14205	---
5100-00-9	18002-B	08-10729	08-14204	---
5173-00-3	18055-2A8	08-17190		---
5217-00-3	18050-2B8	08-16348		---
5217-00-9	18050-2B8	08-16348		---
5367-00-1	18052-2A	08-16349		---
5544-00-1	18055-2B8	08-17191		---
5791-00-1	18057-2B8	08-17192		---

CORE CHARGES APPLY.
SEE OUR WEBSITE FOR APPLICATION CHART.

TEMPEST REBUILT FUELPUMP RG-9080J4A/M

Tempest rebuilt fuel pump RG-9080J4A/M for engine model TIO-360-A3B6 .....P/N 05-15063 ..... ---

TEMPEST ROMEC / CRANE FUEL PUMP REBUILT QUICK KITS

The next time you rebuilt your fuel components, don't spend time on the phone chasing parts, just order a "Quick Kit" and take the hassle out of your rebuilt. Quick Kits include the mandatory replacement parts, plus the parts used by fuel professionals to insure the job is done right!

Fuel Servo No.	Model Number	Our Part No.	Quick Kit No.	Price
RG-9080	2, F1, F2, G1, G2, J1, J2, J3, J4, J5, J7A, J4A	07-09080-0	CFK-9080-0	---
RG-15980	A, B, B1, C, D, E, F, G, N, N1, P, P1, R, R1, S, S1	07-15980	CFK-15980	---

SAFE-T SYPHON

The Safe-T Syphon works with a 1/2 inch hose and the "pump" is made from copper tubing with a glass marble. This makes it ideal for high capacity siphoning of almost any liquid, including fresh and salt water, gasoline, diesel fuel, oil, etc.

P/N 05-22001 ..... ---

ROTARY FUEL PUMP

Industry Standard for Rotary pumps; these are by far the heaviest duty, for severe outdoor use in extreme weather conditions. Deliver media with a head / lift up to 20' solid cast iron construction, fully CNC machined to close tolerances. Pump handle rotates a high quality sintered powder metal 3 vane rotor inside a highly finished pumping chamber. The graphite veins are self lubricating & non wearing with high quality graphite seal that allows the pump to be used with a wide variety of fluids including diesel with up to 15% ethanol blend. This pump has self priming operation with discharge up to 38 LPM (10 GPM). Also supplied complete with 2" Bung, Telescopic Suction Tube with Strainer for use with 15 gallons (50 litre) – 55 gallons (205 litre) barrels. DO NOT USE With Water Based Media.

P/N 08-07611 ..... ---

7GPM SIPHON PUMP FOR DRUMS

7 gpm bellow action siphon pump includes 4ft. discharge hose and 2" bung, fits 15-30-55 gallon barrels. Pump,Siphon,7 GPM Drum Pump, Siphon, 500 SSU, Outlet Size 1 Inch Outside Diameter, Suction Design Tube, Suction Pipe Size Outside Diameter 1 In, Adapter Type 2 Inch NPT Bung, Fits 15, 30 and 55 Gallon Drums, Piston Polyethylene, Pump Body Material Polyethylene, Max Temp 140 Degree F, Includes Discharge Tubing, Discharge Tubing Material Corrugated Flexible Polyethylene, Internal Parts Material Polyethylene, Overall Length 45 3/4 In, Self Priming, Suction Tube 34 Inches Long .....P/N 08-07616 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FUEL PUMPS

CJ AVIATION NEW AND NEW EXCHANGE FUEL PUMPS

New FAA–PMA Direct Replacement Fuel Boost Pumps for Cessna, Beech, Diamond, Navion, Maule, Mooney, Lake and Diamond Aircraft. These certified drop in replacement pumps have a new improved check valve and more efficient motor. There are no Service Bulletins which eliminates the 10 year overhaul requirements. Pumps are warrantied for two years or 300 hours. Exchange pumps are in stock and CJ Aviation, Inc. is willing to drop ship on behalf of Aircraft Spruce for quicker delivery. All pumps come with 8130's and technical support from the manufacturer.

NEW OUTRIGHT FUEL PUMPS

Model No.	OEM No.	Description	Part No.	Price
4140-00-15CJ	4140-00-15	CJ Fuel Pump New	05-07962	---
4140-00-17CJ	4140-00-17	CJ Fuel Pump New	05-07974	---
5100-00-9CJ	5100-00-9	CJ Fuel Pump New	05-10550	---

NEW EXCHANGE FUEL PUMPS

Model No.	OEM No.	Description	Part No.	Price
1184-00-3CJ	1184-00-3	CJ Fuel Pump New Exchange	05-07965	---
1296-00-1NVCJ	1296-00-1NV	CJ Fuel Pump New Exchange	05-07966	---
1471-00-3CJ	1471-00-3	CJ Fuel Pump New Exchange	05-07967	---
4140-00-153CJ	4140-00-153	CJ Fuel Pump New Exchange	05-07983	---
4140-00-15CJ	4140-00-15	CJ Fuel Pump New Exchange	05-07969	---
4140-00-17CJ	4140-00-17	CJ Fuel Pump New Exchange	05-07976	---
4140-00-17NCJ	4140-00-17N	CJ Fuel Pump New Exchange	05-07977	---
4140-00-19ACJ	4140-00-19A	CJ Fuel Pump New Exchange	05-07978	---
4140-00-21ACJ	4140-00-21A	CJ Fuel Pump New Exchange	05-07979	---
4140-00-39NVCJ	4140-00-39NV	CJ Fuel Pump New Exchange	05-07981	---
4140-00-400CJ	4140-00-400	CJ Fuel Pump New Exchange	05-07986	---
4140-00-401CJ	4140-00-401	CJ Fuel Pump New Exchange	05-07987	---
4140-00-57CJ	4140-00-57	CJ Fuel Pump New Exchange	05-07982	---
4140-00-7NVCJ	4140-00-7NV	CJ Fuel Pump New Exchange	05-07968	---
4258-00-15NVCJ	4258-00-15NV	CJ Fuel Pump New Exchange	05-07988	---
4404-00-7NVCJ	4404-00-7NV	CJ Fuel Pump New Exchange	05-07989	---
4613-00-3NVCJ	4613-00-3NV	CJ Fuel Pump New Exchange	05-07991	---
4613-00-5NVCJ	4613-00-5NV	CJ Fuel Pump New Exchange	05-07992	---
5100-00-4CJ	5100-00-4	CJ Fuel Pump New Exchange	05-07993	---
5100-00-9CJ	5100-00-9	CJ Fuel Pump New Exchange	05-07994	---

NOTE: A CORE CHARGE APPLIES TO ALL EXCHANGE FUEL PUMPS. REFER TO OUR WEBSITE FOR DETAILS ON THE CJ AVIATION CORE POLICY.

OVERHAULED EXCHANGE FUEL PUMPS

Model No.	Description	Part No.	Price
1184-00-3	Fuel Pump O/H Exchange	05-07997	---
1296-00-1NV	Fuel Pump O/H Exchange	05-07999	---
1500-00-31	Fuel Pump O/H Exchange	05-08003	---
4140-00-11NV	Fuel Pump O/H Exchange	05-08007	---
4140-00-135	Fuel Pump O/H Exchange	05-08018	---
4140-00-184	Fuel Pump O/H Exchange	05-08019	---
4140-00-19B	Fuel Pump O/H Exchange	05-08012	---
4140-00-1NV	Fuel Pump O/H Exchange	05-08006	---
4140-00-21A	Fuel Pump O/H Exchange	05-08013	---
4140-00-218	Fuel Pump O/H Exchange	05-08021	---
4140-00-400	Fuel Pump O/H Exchange	05-08022	---
4140-00-47	Fuel Pump O/H Exchange	05-08016	---
4140-00-57	Fuel Pump O/H Exchange	05-08017	---
4404-00-7NV	Fuel Pump O/H Exchange	05-08023	---
4613-00-3NV	Fuel Pump O/H Exchange	05-08024	---
4140-00-39NV	Fuel Pump O/H Exchange	05-08014	---
4140-00-7NV	CJ O/H Dukes Pump Exchange	05-12622	---

WELDON PUMP OVERHAUL/EXCHANGES

JC LIP SEAL

Model	Part No.	Price	Model	Part No.	Price
8150-B	08-14296	---	8163-A	08-14306	---
8159-A	08-14304	---	8163-B	08-14307	---

JC FACE SEAL

Model	Part No.	Price	Model	Part No.	Price
A8150-B	08-14326	---	A8163-B	08-14366	---
A8150-B1	08-14327	---	A8164-A	08-14337	---
A8163-A	07-00785	---			

J LIP SEAL

Model	Part No.	Price	Model	Part No.	Price
33959-2	08-14233	---	A8110-G	08-14263	---
33959-3	08-14234	---	B8001-G	08-14272	---
8120-H	08-14249	---	B8001-H	08-14273	---
			C8100-E	08-14285	---
			C8100-F	08-14286	---

J FACE SEAL

Model	Part No.	Price	Model	Part No.	Price
B8110-G	08-14277	---	B8120-G	08-14278	---
			B8120-H	08-14278	---

JA SERIES

Model	Part No.	Price
A8120-C	A8120-C	Call For Quote

EP

REFUELING PUMPS – HARTZELL FUEL PUMPS

These aviation pumps are only intended to be groundbased or vehicle mounted. Do not use or mount in or on the aircraft. For use with aviation gasoline (AVGAS 100LL) and kerosene grade (JET A). User should consult NFPA 407 Standard for aircraft fuel servicing for safety requirements during ground fuel servicing of aircraft using liquid petroleum fuels. This product has no actual or implied compliance with this standard. Manufacturer warranty is 2 years.

PUMP MODELS THAT MAY BE USED IN AVIATION REFUELING (PO/PX MODELS) ARE NOT SUPPLIED WITH APPROPRIATE HOSE, NOZZLE, AND SUCTION PIPE. THESE ITEMS MUST MEET NFPA 407 GUIDELINES. For ground-based refueling only. Do not use in or on the aircraft. For use with aviation gasoline (AVGAS 100LL) and kerosene grade (Jet A). User should consult NFPA 407 Standard for Aircraft Fuel Servicing for safety requirements during ground fuel servicing of aircraft using liquid petroleum fuels. This product has no actual or implied compliance with this standard.

M-150S-PO

V25-012PO

PRO20-115PO

PRO35-115PO

PUMPS

Model No.	Volt	Flow Range	Description	Part No.	Price
M-150S-PO	12-Volt	15 GPM / 57 LPM	GPI Aviation Refueling Pump	08-07463	---
V25-012PO	12-Volt	25 GPM / 95 LPM	GPI Aviation Refueling Pump	08-07464	---
PRO20-115PO	115-Volt	20 GPM / 76 LPM	GPI Aviation Refueling Pump	08-07434	---
PRO35-115PO	115-Volt	35 GPM / 132 LPM	GPI Aviation Refueling Pump	08-07466	---
Use With	For use with gasoline blends (up to E15), diesel fuel blends (up to B20), kerosene. Aviation gasoline (AVGAS 100LL) and kerosene grade (Jet A).				

METERS

Model No.	Flow Range	Description	Part No.	Price
QM40-G8N	2-40 GPM (Gallon)	GPI Aviation Refueling Meter	08-17435	---
QM40-L8N	8-150 LPM (Liters)	GPI Aviation Refueling Meter	08-07468	---
Use With	For use with gasoline blends (up to E15), diesel fuel blends (up to B20), kerosene. Aviation gasoline (AVGAS 100LL) and kerosene grade (Jet A).			

COMBOS

Model No.	Description	Part No.	Price
PRO20-115PO/QM40G8N	Combo Pump / Meter - Calibrated in Gallons	08-07436	---
PRO35-115PO/QM40G8N	Combo Pump / Meter - Calibrated in Gallons	08-07471	---
PRO20-115PO/ QM40LBN	Combo Pump / Meter - Calibrated in Liters	08-07437	---
PRO35-115PO/ QM40LBN	Combo Pump / Meter - Calibrated in Liters	08-07438	---

HARTZELL FUEL PUMPS

FAA/PMA Approved **202F** series Fuel Pumps for Lycoming Engines from Hartzell Engine Technologies. HET **202F** series are a direct replacement for the Crane/Lear Romec RG9570 series engine driven fuel pumps. Applicable for use on a wide variety of Lycoming engines. The 202F series fuel pumps include two part numbers covering specific installations:

Description	Lear/romec Replacement	Lycoming Replacement	Beech Replacement	Part No.	Price
202F-1001	RG9570k1, RG9570k1/M	62E22586	Beech 50-389141-1	07-03534	---
202F-1002	RG9570p1, RG9570p1/M	62E22585, LW-19012	--	07-03537	---

HARTZELL ENGINE TECH NEW FUEL PUMP 201F

The OEM pump on fuel injected Lycoming engines with high flow and pressure requirements. The **201F** series are also available as FAA-PMA approved replacements for the Lear Romec RG17980 series of fuel pumps.
Medium capacity engine driven positive displacement fuel pump Carbon vanes for improved wear characteristics. Tightly toleranced for improved pump performance and low pressure fluctuation.

Description	Lear/romec Replacement	Lycoming Replacement	Part No.	Price
201F-5001	RG17980/M	62D22565	07-01751	---
201F-5003	RG17980D/M	62D22567	07-01753	---
201F-5005	RG17980J/M	62D22569	07-01755	---
201F-5006	RG17980K/M	62D22570	07-01756	---
201F-5007	RG17980P/M	62D22572	07-01757	---
201F-5008	RG17980U/M	62D22573	07-01758	---

HARTZELL ENGINE TECH NEW FUEL PUMP 200F

The OEM pump on fuel injected Lycoming engines with high flow and pressure requirements. The **200F** series are also available as FAA-PMA approved replacements for the Lear Romec RG9080 series of fuel pumps.
High capacity engine driven positive displacement fuel pump Carbon vanes for improved wear characteristics. Tightly toleranced for improved pump performance and low pressure fluctuation.

Description	Lear/romec Replacement	Lycoming Replacement	Part No.	Price
200F-5001	RG9080F2/M	62E22580	07-01746	---
200F-5002	RG9080J4A/M	62E22581	07-01747	---
200F-5003	RG9080J6A/M	62E22582	07-01748	---
200F-5004	RG9080J7A/M	62E22583	07-01749	---
200F-5005	RG9080J8A/M	62E22584	07-01750	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ANDAIR FUEL BOOST PUMPS

PX375-TC Boost Pump for 3/8" Fuel Lines: • Integral bypass and pressure relief valve • 11-14V DC, 6 amps max • Weight: 460g (16.23 oz) • Fittings: 1/4 NPT input, AN-6 male output • 1/4 NPT to AN-6 adapter included • Suitable for injection engines such as Lycoming IO320, IO360, IO540 etc. It is strongly recommended that a filter is fitted upstream of the pump. The output of this FX375-MK filter can be fitted directly to the input of this pump.

PX500-TC Boost Pump for 1/2" Fuel Lines: • Integral bypass and pressure relief valve • 11-14V DC, 6 amps max • Weight: 470g (16.23 oz) • Fittings: 3/8 NPT input, AN-8 male output • 3/8 NPT to AN-8 adapter included • Suitable for injection engines such as Lycoming IO540 etc. It is strongly recommended that a filter is fitted upstream of the pump. The output of this FX500-MK filter can be fitted directly to the input of this pump.

PX375-TC Pump for 3/8" Fuel Lines .....P/N 05-12559 ..... ---
PX500-TC Pump for 1/2" Fuel Lines .....P/N 07-01334 ..... ---

ANDAIR FILTERS

FX375-MK for 3/8" Lines .....P/N 05-12560 ..... ---
FX500-MK for 1/2" Lines .....P/N 05-12561 ..... ---

RAPCO DUKES OVERHAULED FUEL PUMPS

Model No.	Part No.	Price
4140-00	08-13508	---
4140-00-103	08-13509	---
4140-00-153	08-13510	---
4140-00-17	08-13511	---
4140-00-191	08-13512	---
4140-00-19A	08-13513	---
4140-00-1	08-13514	---
4140-00-11	08-13515	---
4140-00-218	08-13516	---
4140-00-21A	08-13517	---
4140-00-220	08-13518	---
4140-00-301	08-13519	---
4140-00-311	08-13520	---
4140-00-39	08-13521	---
4140-00-47	08-13522	---
4140-00-57	08-13523	---
4140-00-7	08-13524	---
4258-00-15	08-13525	---
4404-00-7	08-13526	---
4404-00-8	08-13527	---
4613-00-1	08-13528	---
4613-00-3	08-13529	---
4613-00-5	08-13530	---
1171-00-1	08-13531	---
1184-00-3	08-13533	---
1420-00-1	08-13535	---
1429-00-1	08-13536	---
1458-00-1	08-13537	---
1471-00-3	08-13538	---
1499-00-19	08-13539	---
1499-00-21	08-13540	---
1500-00-22	08-13541	---
1500-00-35	08-13542	---
1500-00-38	08-13543	---
1500-00-65	08-13544	---
1500-00-67	08-13545	---
1515-00-1	08-13546	---

DUKES OVERHAULED FUEL PUMPS

Dukes Aerospace Fuel Pumps are available on an overhaul exchange basis. All fuel pumps are overhauled in accordance with factory specifications and contain 100% OEM parts.

Attention: There will be an additional Core Charge per order.

Model No.	Part No.	Price
1184-00-1	08-07563	---
1296-00-1	08-07565	---
1458-00-1	08-07567	---
1471-00-3	08-07568	---
1499-00-21NV	08-07569	---
1500-00-35	08-07571	---
1500-00-38	08-07572	---
1515-00-1	08-07573	---
1521-00-1	08-07574	---
1816-00-1NV	08-07575	---
4140-00-153	08-07576	---
4140-00-19A	08-07578	---
4140-00-1	08-07579	---
4140-0-218	08-07580	---
4140-00-21A	08-07581	---
4140-00-39	08-07582	---
4140-00-57	08-07583	---
4150-00-1	08-07584	---
4258-00-15	08-07585	---
4404-00-404	08-07586	---
4613-00-5NV	08-07589	---
5100-00-19	08-07590	---
5217-00-3	08-07592	---
1499-00-19	08-07593	---
1500-00-42	08-07594	---
4140-00-7	08-07595	---
4140-00-11	08-07596	---
4140-00-17	08-07597	---
4140-00-67	08-07598	---
4140-00-198	08-07599	---
4140-00-311	08-07600	---
4258-00-21	08-07601	---
4634-00	08-07602	---
5100-00-9	08-07603	---
5288-00-1	08-07604	---
5367-00-1	08-07605	---
5596-00-1	08-07606	---

POWERUP BENDIX MAGNETOS

Utilizing over 35 years of manufacturing FAA/PMA replacement magneto parts, PowerUp is proud to introduce an ALL NEW direct magneto replacement for general aviation. Performance improvements including coil, capacitor, breaker points, and impulse coupling make the PowerUp magneto the superior quality option for General Aviation. **A core charge applies to these magnetos.**
PowerUp Aircraft Ignition Systems magneto series with both non-impulse and impulse coupled units, with both 4 and 6 cylinder.

POWERUP NEW BENDIX MAGNETOS - 4 CYLINDER

Model	Part Number	Price
ES-51360-29	07-27123	---
ES-600644-1	07-27126	---
ES-600644-3	07-27127	---
ES-51360-37	07-27133	---
ES-51360-41	07-27134	---
ES-51360-46	07-27135	---
ES-51360-54	07-27136	---

Model	Part Number	Price
ES-500514-1	07-27137	---
ES-500514-2	07-27138	---
ES-500514-3	07-27139	---
ES-500514-4	07-27140	---
ES-500514-5	07-27141	---
ES-600614-1	07-27158	---
ES-600644-201	07-27167	---

POWERUP NEW BENDIX MAGNETOS - 6 CYLINDER

Description	Part Number	Price
ES-51365-33	07-27124	---
ES-51365-46	07-27125	---
ES-600646-1	07-27128	---
ES-600646-2	07-27129	---
ES-600646-4	07-27130	---
ES-600656-1	07-27131	---
ES-600656-3	07-27132	---
ES-51365-32	07-27142	---
ES-51365-34	07-27143	---
ES-51365-35	07-27144	---
ES-51365-39	07-27145	---
ES-51365-47	07-27146	---
ES-51365-54	07-27147	---
ES-500516-2	07-27148	---
ES-500516-3	07-27149	---
ES-500516-4	07-27150	---
ES-500516-5	07-27151	---

Description	Part Number	Price
ES-500516-6	07-27152	---
ES-500516-7	07-27153	---
ES-500516-9	07-27154	---
ES-500516-10	07-27155	---
ES-500556-1	07-27156	---
ES-500556-3	07-27157	---
ES-600616-3	07-27159	---
ES-600616-4	07-27160	---
ES-600616-5	07-27161	---
ES-600616-7	07-27162	---
ES-600616-9	07-27163	---
ES-600606-1	07-27164	---
ES-600606-3	07-27165	---
ES-600646-201	07-27166	---
ES-500556-101	07-27168	---
ES-500556-103	07-27169	---
ES-500556-203	07-27170	---

LYCOMING 66K4A3SN-01 EIS ELECTRONIC IGNITION SYSTEM

The Lycoming EIS is a drop-in capable replacement for magnetos and provides easy installation and engine startability. Lycoming EIS is designed to go to TBO and does not include a Lycoming-scheduled maintenance requirement. It meets the ever-growing performance requirements of modern-day aircraft design, including less maintenance, lower weight, and more spark control than a traditional magneto.
The Lycoming EIS was developed by SureFly Partners, Ltd. with input from Lycoming's engineering teams to meet Lycoming's exacting specifications. With over two years of research and development, including exhaustive endurance and durability testing, the Lycoming EIS is the only electronic ignition system on the market with the proven performance necessary to bear the Lycoming name. The Lycoming EIS utilizes a solid-state design that has no moving parts and nearly eliminates scheduled maintenance requirements.

EM PN	Cylinders	Drive Type	Degrees	Part Number	Price
66K4A3SN-01	4 Cylinders	Plain Drive	20	07-25424	---
66K4A3SN-02	4 Cylinders	Plain Drive	25	07-25425	---
66K4F3SN-01	4 Cylinders	Impulse Drive	20	07-25426	---
66K4F3SN-02	4 Cylinders	Impulse Drive	25	07-25427	---
66K4D3SN-01	6 Cylinders	--	20	07-25428	---
66K4D3SN-02	6 Cylinders	--	25	07-25429	---
66K4D3SN-03	6 Cylinders	--	23	07-25430	---
66K4D3SN-04	6 Cylinders	--	20	07-25431	---
66K4A3SN-04	6 Cylinders	--	20	07-25433	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

POWERUP OVERHAULED BENDIX MAGNETOS

Overhauled Bendix Magnetos By Powerup.
Note: Accessories include the TCM/Bendix IMPULSE Couplings (core charge applies) and the TCM/Bendix CAM Couplings (core charge applies).
Note: Please verify P Lead end before ordering. Contact sales for more information.

Core charges apply to all Overhauled Magnetos.

Model	Part Number	Price
10-51360-29	10-51360-29	---
10-51360-37R	10-51360-37R	---
10-349310-1R	10-349310-1R	---
10-51360-27	10-51360-27R	---
10-163050-9R	07-02489	---
10-51365-47R	10-51365-47R	---
10-163005-11R	07-01523	---
10-163005-3R	07-01524	---
10-163010-15R	07-01526	---
10-163010-2R	07-01527	---
10-163010-6R	07-01529	---
10-163015-3R	07-01531	---
10-163020-4R	07-01534	---
10-163045-1R	07-01536	---
10-163045-3R	07-01538	---
10-163045-6R	07-01539	---
10-163045-8R	07-02482	---
10-163050-1R	07-01541	---
10-163050-2R	07-01542	---
10-163050-6R	07-01543	---
10-163050-7R	07-01544	---
10-163055-1R	07-01546	---
10-163060-2R	07-01548	---
10-349220-4R	07-01549	---
10-349235-3R	07-01551	---
10-349260-3R	07-01553	---
10-349260-4R	07-01554	---
10-349260-6R	07-01556	---
10-349260-7R	07-01557	---
10-349270-7R	07-01558	---
10-349285-1R	07-01559	---
10-349285-5R	07-01560	---
10-349285-7R	07-01561	---
10-349290-17R	07-01562	---
10-349290-1DR	07-01563	---
10-349290-2DR	07-01565	---
10-349290-2R	07-01566	---
10-349290-3DR	07-01567	---
10-3492920-3R	07-01568	---
10-349290-4R	07-01569	---
10-349290-9R	07-01570	---
10-349300-4DR	07-01571	---
10-349300-4R	07-01572	---
10-349305-1DR	07-01573	---
10-349305-2R	07-01575	---
10-349305-3R	07-01576	---
10-349305-4R	07-01577	---
10-349310-10R	07-01578	---
10-349310-11R	07-02505	---
10-349310-14R	07-01580	---
10-349310-3R	07-01583	---

Model	Part Number	Price
10-349310-4DR	07-01584	---
10-349310-5R	07-01586	---
10-349310-8DR	07-01587	---
10-349310-8R	07-01588	---
10-349320-4DR	07-01589	---
10-349320-4R	07-01590	---
10-349350-6R	07-01593	---
10-349350-7R	07-01594	---
10-349365-6R	07-01598	---
10-349365-10R	07-01595	---
10-349370-2R	07-01603	---
10-349370-5R	07-01606	---
10-349370-6R	07-01607	---
10-349460-1DR	07-01609	---
10-349490-1DR	07-01610	---
10-349490-1R	07-02520	---
10-349490-3R	07-01612	---
10-349500-1R	07-02524	---
10-349510-1DR	07-01614	---
10-349510-3R	07-01616	---
10-349520-1DR	07-01617	---
10-682555-11	07-02426	---
10-382555-12R DU	07-25998	---
10-382555-151R D	07-02430	---
10-382555-15R DU	07-02429	---
10-382560-11R DU	07-02432	---
10-382605-13R DU	07-01672	---
10-382610-13R DU	07-01673	---
10-382910-13R DU	07-01675	---
10-382910-18R DU	07-01676	---
10-382920-11R DU	07-02443	---
10-51360-41R	07-01640	---
10-51360-45R	07-01642	---
10-51360-46R	07-01643	---
10-51360-47R	07-01644	---
10-51360-54R	07-01646	---
10-500556-203R	07-19311	---
10-51360-58R	07-01648	---
.10-51365-32R	07-01650	---
10-51365-33R	07-01651	---
10-51365-34R	07-01652	---
10-51365-35R	07-01653	---
10-51365-40R	07-01654	---
10-51365-48R	07-01659	---
10-51365-57R	07-01660	---
10-51365-9R	07-01661	---
10-52350-22R	07-01664	---
10-600616-7R	07-02591	---
10-600644-201R	10-06225	---
10-682555-13R DU	07-01667	---
10-682555-141R DU	07-02601	---

Model	Part Number	Price
10-682605-13R DU	07-01672	---
10-682610-13R DU	07-01673	---
10-682620-11R	07-01674	---
10-682910-13R DU	07-01675	---
10-682910-18R DU	07-01676	---
10-79020-10R	10-79020-10	---
10-79020-118R	07-01677	---
10-79020-119R	07-01678	---
10-79020-17R	07-01681	---
10-79020-18R	07-01682	---
10-79020-19R	07-01683	---
10-163020-2R	08-15795	---
10-163030-1R	08-15796	---
10-500514-2R	08-15799	---
10-500514-3R	08-15800	---
10-500514-4R	08-15801	---
10-500514-5R	08-15802	---
10-500514-8R	08-15803	---
10-500514-201R	08-15804	---
10-500516-2R	08-15805	---
10-500516-3R	08-15806	---
10-500516-5R	08-15807	---
10-500516-6R	08-15808	---
10-500516-7R	08-15809	---
10-500516-9R	08-15810	---
10-500516-10R	08-15811	---
10-500556-901R	08-15816	---
10-52350-20R	08-15818	---
10-52350-23R	08-15819	---
10-600604-1R	08-15820	---
10-600606-3R	08-15821	---
10-600614-2R	08-15822	---
10-600614-3R	08-15823	---
10-600616-4R	08-15824	---
10-600616-5R	08-15825	---
10-600616-6R	08-15826	---
10-600616-101R	08-15827	---
10-600644-3R	08-15829	---
10-600644-4R	08-15830	---
10-600644-5R	08-15831	---
10-600644-202R	08-15832	---
10-600646-101R	08-15833	---
10-600646-3R	08-15834	---
10-600646-4R	08-15835	---
10-600654-1R	08-15836	---
10-600656-3R	08-15837	---
10-79020-16R	08-15838	---

EP

BENDIX MAGNETOS

OVERHAULED BENDIX MAGNETOS

A Bendix magneto is a specific type of aircraft magneto manufactured by Teledyne Continental Motors. There are multiple models of Bendix magnetos, and they can be infinitely overhauled. As a result, the Bendix magneto is more often overhauled than bought new, allowing for efficient, cost-effective use.

Core charges apply to all Overhauled Magnetos.

Description	Part No.	Price
10-163010-10 O/H Bendix Mag	07-01949	---
10-163060-1R O/H Bendix Mag	07-02392	---
10-349220-5 O/H Bendix Mag	07-01935	---
10-349260-7 O/H Bendix Mag	07-01938	---
10-349290-1 O/H Bendix Mag	07-01933	---
10-349293-1 O/H Bendix Mag	07-01977	---
10-349305-1 O/H Bendix Mag	07-01941	---
10-349310-2 O/H Bendix Mag	07-01980	---
10-349310-4R O/H Bendix Mag	07-02402	---
10-349350-4 O/H Bendix Mag	07-01931	---
10-349350-5 O/H Bendix Mag	07-01930	---
10-349365-1 O/H Bendix Mag	07-01990	---
10-349365-3 O/H Bendix Mag	07-01942	---
10-349370-1 O/H Bendix Mag	07-01960	---
10-349370-4 O/H Bendix Mag	07-01934	---
10-349420-1 O/H Bendix Mag	07-01961	---
10-349420-2 O/H Bendix Mag	07-01962	---
10-349460-1 O/H Bendix Mag	07-01963	---
10-349460-2 O/H Bendix Mag	07-01991	---
10-349490-2 O/H Bendix Mag	07-01964	---
10-349520-1 O/H Bendix Mag	07-01992	---
10-500514-1 O/H Bendix Mag	07-01973	---
10-500516-2 O/H Bendix Mag	07-01974	---
10-500516-3R O/H Bendix Mag	07-02418	---
10-500556-101 O/H Bendix Mag	07-01993	---
10-500556-103 O/H Bendix Mag	07-01927	---
10-500556-1 O/H Bendix Mag	07-01929	---
10-500556-203 O/H Bendix Mag	07-01983	---
10-500556-3 O/H Bendix Mag	07-01924	---
10-500556-901R O/H Bendix Mag	07-02424	---
10-51360-27R O/H Bendix Mag	07-02549	---
10-51360-28R O/H Bendix Mag	07-02550	---
10-51360-37 O/H Bendix Mag	07-01943	---
10-51360-55R O/H Bendix Mag	07-02562	---
10-51365-43 O/H Bendix Mag	07-01968	---
10-51365-46 O/H Bendix Mag	07-01969	---
10-51365-47 O/H Bendix Mag	07-01944	---
10-51365-39R O/H Bendix Mag	07-02569	---
10-51365-44R O/H Bendix Mag	07-02573	---
10-51365-45R O/H Bendix Mag	07-02574	---
10-52350-20R O/H Bendix Mag	07-02583	---
10-52350-23R O/H Bendix Mag	07-02586	---
10-600606-1 O/H Bendix Mag	07-01971	---
10-600614-1R O/H Bendix Mag	07-02425	---
10-600616-3R O/H Bendix Mag	07-02589	---
10-600646-1 O/H Bendix Mag	07-01985	---
10-600646-201 O/H Bendix Mag	07-01925	---
10-600646-2 O/H Bendix Mag	07-01972	---
10-600656-1 O/H Bendix Mag	07-01945	---
10-79020-16 O/H Bendix Mag	07-01986	---
10-79020-6 O/H Bendix Mag	07-01987	---

OVERHAULED BENDIX DUAL MAGNETOS

Description	Part No.	Price
10-682555-141 O/H Bendix Dual Mag	07-02601	---
10-682555-15R O/H Bendix Dual Mag	07-02429	---
0-682555-16 O/H 1 Bendix Dual Mag	07-02431	---
10-682560-13 O/H Bendix Dual Mag	07-02433	---
10-682555-11R O/H Bendix Dual Mag	07-02426	---
10-682555-151R O/H Bendix Dual Mag	07-02430	---
10-682555-16R O/H Bendix Dual Mag	07-02431	---
10-682560-11R O/H Bendix Dual Mag	07-02432	---
10-682560-13R O/H Bendix Dual Mag	07-02433	---
10-682610-131R O/H Bendix Dual Mag	07-02438	---
10-682920-11R 8 cyl O/H Bendix Dual Mag	07-02443	---

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BENDIX-SCINTILLA MAGNETOS

BENDIX MAGNETO ENGINE APPLICATIONS

Engine		Magneto Type	Magneto Replacement	Units per Engine
Make	Model			
Continental	A-65-8, A-75-8,	S4RN-20	10-51360-27 (Rt. Side)	1
	C-75-8, C-85-8 with original crankcase	S4RN-21	10-51360-28 S(Lt. Side)	1
	A65-8, A-75-8, C-75-8, C-85-8 with current crankcase castings No. 6794 & No. 6795	S4RN-21	10-51360-28	2
	C-75-12F, C-85-8F, C-85-12F, C-90-12,	S4LN-21	10-51360-26	2
	C-115, C-125-2, C-145-2, C-145-4	S6LN-21	10-51365-39	2
	E-165-2, E-185-2 (above S/N 10111) E-185-3, E-185-9 (above S/N 5937) (above S/N 20922), E-225-4, E-225-8 (all), O-470- (above S/N 5937)	S6LN-20	10-51365-43	2
	GO-300A, GO-300B	S6RN-21	10-51365-35	2
	O-470-2, -4, -13, -A, -B, -E, -G, -J, -K, -L, -M, BGSO-526-A	S6RN-25	10-79020-8	2
	O-470-13A	S6LN-23	10-52350-20	2
	PE-150-2, -6 Packette	S6LN-23	10-52350-20	1
	FSO-526-A	S6RN-26	10-85290-2	2
Franklin	6A4-150-B3, 6A4-165-B3	S6RN-21		2
	6V4-178-B3, -B33, O-335-2, -3	S6RN-21	10-51365-48	2

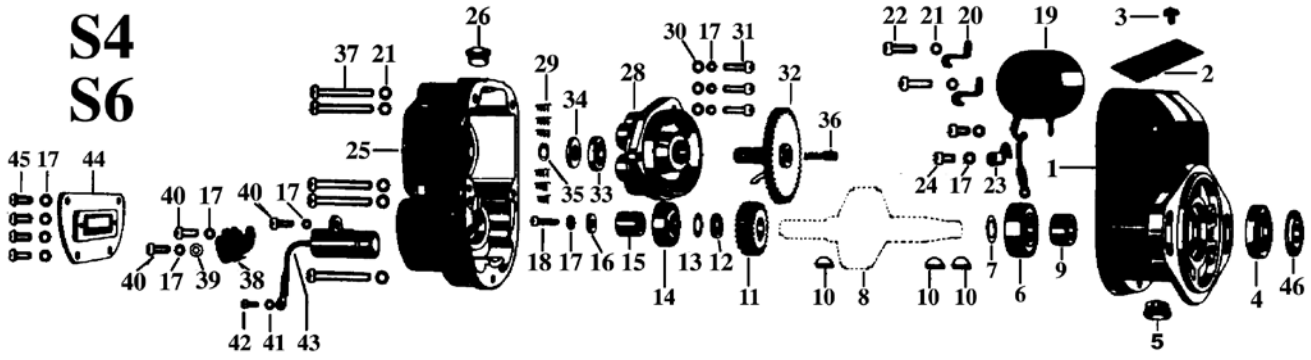
Engine		Magneto Type	Magneto Replacement	Units per Engine
Make	Model			
Franklin	6V4-200-C32, -C33, O-335-2, -3, -5, -6	S6RN-23	10-52350-19	2
	6A4-200-C6	S6RN-23	10-52350-21	2
Lycoming	††O-145-B2, -B3, -C2, -C3, ††O-235-C,	S4LN-20	10-51360-29	1
	O-235-C1, -C1A,	S4LN-21	10-51360-30	1
	O-320-A1A, -A2A, -B1A, -B2A, O-340-A, -A1A,	S4LN-21	10-51360-30 (25° Lag) or	2
	-A2A, -B1A, B2A, O-360-A, -A1A, -A1B , -B1A, -B2A	S4LN-21	10-51360-25 (35° Lag)	2
	O-290-G (single ignition)	S4LN-21	10-51360-25	1
	GO-435-C2, -C2A, -C2B , -C2B2, -C2C, -C2E, GO-480, -B, -B1A6, -B1C,	S6LN-20	10-51365-31	1
	-B1D, -C1A, -C1D6, -C2E6, -F1A6, -F2A6, -F3A6, -F4A6	S6LN-21	10-51360-32	1
	O-435-19, -20, VO-435A, -A1A, -A1B, -A1C, -A1D, GO-480-C1B6, -D1A,	S6LN-20	10-51365-33	1
	-G1B6, GSO-480-A1A6, -A1C6, -B 1A6, -B1B6,-B1C6	S6LN-21	10-51365-34	1
	O-435-6, -6A, -23, -23A,	S6LN-22	10-52350-22	1
	-23B, -A1C (optional), O-480-1	S6LN-23	10-52350-23	1
	O-435-17, GO-435-C2, -C2A, -C2B, -C2D,	S6LN-20	10-51365-44	1
	GO-480-B1, -B1B, -C2C6, -F3B6, -F4B6	S6LN-21	10-51365-45	1
	O-540	S6LN-20	10-51365-46	1
		S6LN-21	10-51365-47	1

**See Listing Below.*

****New P/N 10-357584. ***New P/N 10-357586.**

EP

PARTS COMMON TO S4N & S6N MAGNETOS



Ref. No.	Part No.	Description	Price Ea.
1	10-50727Y	Housing - Magneto	---
2	10-400012	Plate - Mag Ident	---
3	10-22067	Drive Screw - Ident Plate	---
4	10-357592	Oil Seal - Drive Shaft	---
5	10-157134	Vent - Mag Housing	---
6	10-81806	Bearing - Mag, Drive End	---
7	2-161-1	Shim Washer - .0025"	---
	2-161-2	Shim Washer - .004"	---
	2-161-3	Shim Washer - .005"	---
	2-161-4	Shim Washer - .008"	---
	2-161-5	Shim Washer - .010"	---
	2-161-6	Shim Washer - .012"	---
	---	(Drive End Bearing)	---
8	---	Magnet - Rotating	---
9	10-25788	Bushing - Drive Shaft	---
10	10-90788-5	Key - Woodruff	---
11	10-157123Y	Gear-Distrib., Small (S4)	---
11A	10-157120Y	Gear-Distrib., Small (S6)	---
12	10-3503	Spacer-Brkr End Bearing	---
13	2-199-1	Shim Washer - .002"	---
	2-199-2	Shim Washer - .004"	---

Ref. No.	Part No.	Description	Price Ea.
13	2-199-3	Shim Washer - .005"	---
	2-199-4	Shim Washer - .008"	---
	2-199-5	Shim Washer - .010"	---
	2-199-6	Shim Washer - .012"	---
	---	(Breaker End Bearing)	---
14	2-202	Bearing-Magnet, Brkr End	---
15	10-88543-1	Cam - Breaker	---
16	10-51354	Washer-Plain (Cam Screw)	---
18	10-35936-10	Screw - Cam	---
19	10-357164	Coil	---
20	10-50765	Clamp - Coil Core	---
21	---	Washer - Lock	---
22	10-35937-8	Screw - Coil Core Clamp	---
23	10-5752	Clip - Primary Lead	---
24	10-16479	Screw	---
25	---	Housing - Distributor	---
26	10-157135	Plug - Distributor Housing	---
27	---	Bushing - Ground Terminal	---
28	10-52949	Block - Distributor (S4)	---
28A	10-52958	Block - Distributor (S6)	---
29	10-50737	Spring-H.T. Cable Contact	---

Ref. No.	Part No.	Description	Price Ea.
30	---	Washer - Plain	---
31	---	Screw - Distributor Block	---
32	10-357584	Gear-Distributor, Large (S4)**	---
32A	10-357586	Gear-Distributor, Large (S6)***	---
33	10-50752	Washer - Felt	---
35	10-92815-37	Ring-Retain. (Distributor,Gear)	---
36	10-9595	Brush - Carbon	---
37	10-157158	Screw	---
38	---	Breaker Assembly*	---
39	10-14268	Washer - Plain	---
40	10-157161	Screw	---
41	---	Washer - Lock	---
42	---	Screw - Lead to Breaker	---
43	10-51676	Condenser	---
44	---	Cover - Breaker	---
45	10-157161	Screw - Breaker Cover	---
46	10-51678	Oil Slinger - Drive Shaft	---

IGNITION ACCESSORIES

BENDIX BREAKER ASSEMBLIES

Early S4, S6 Mags
P/N 07-06305 (10-357173) with spring (current production) .....**--- Ea.**
P/N 07-06306 (10-357174) without spring (current production) .....**--- Ea.**

All above breaker assemblies used on either Right or Left Magnetos. Late S4/S6 Mags, S200 Mags*

BENDIX MAGNETO GREASE

#10-27165 - Factory recommended lubricant for bearings in Bendix magnetos.
1 Lb. Can .....P/N 10-27165 ..... ---
#10-391200 - For use on distributor block bushing. Provides proper shaft lubrication.
8 oz. can .....P/N 10-391200 ..... ---

REPLACEMENT COILS FOR CONTINENTAL ENGINES PER SERVICE BULLETIN NO. 637

TCM Ignition Systems has issued Service Bulletin No. 637 to retire from service certain older coils and rotating magnets. The Bulletin applies to many S-20, S-200, S-600, and S-1200 series magnetos as identified in this chart. Compliance with this Bulletin is required at the next 100 inspection, annual inspection, or progressive maintenance inspection, whichever comes first. Order by new coil part number.

Magneto Series	Old Coil P/N	Color	New Coil P/N	Color	Our Price
S-20	10-163172	Opaque Amber to Dark Purple	10-357165-1	Bright Red to Dark Red	---
S-200	10-163209				
	10-160887				
S-1200	10-349271	Opaque Amber	10-391088-1	Blue to Olive Green to Black	---

ALTERNATOR FILTER

Replacement part for existing alternator filters. Wire won't break at the case and its clamp is made from heavy gauge steel. Double the capacitance compared to OEM alternator filters. For stubborn alternator noise, this Alternator filter combined with the Eliminator (P/N 11-08055) can trap a wide frequency range of electronic noise. Both of these filters have been thoroughly tested under a DO 160D and are FAA/PMA approved.
P/N 11-08060 ..... ---

MAGNETO FILTER FAA APPROVED

Lone Star Aviation's Magneto filter (FEED THRU) (Fail Safe Design) attenuates both low and high frequencies of noise generated from bendix magneto ignition systems. The firing of the aircraft spark plugs through the ignition systems harness can cause noise problems and interference to aircraft electronics such as audio panels, radio equipment, navigation equipment, instrumentation, and autopilot systems on board an aircraft. This filter has been used by avionics shops, OEM aircraft manufacturers, and FBO's, to attenuate and suppress pulsating noise generated by their aircraft's magneto systems. The magneto filter is FAA-PMA approved and is compatible with the bendix series S20, S21, S200, D3000, D4000 magneto.
Features: • 1000 VDC working voltage, 5000VDC break down voltage • Capacitance: .05 uf-self healing technology • Braided cable is shielded, silver plate over copper, supplied in 8 inch lengths • Heavy duty mounting clamp • Advanced feed through design • Temp. range: -35°C to +80°C • Max. current: 20 amps.....P/N 07-00713 ..... ---

BOGERT AVIATION GROMMET STRETCHER TOOL

Using the Grommet Stretcher is 2-3x's faster when stretching grommets over fittings and plugs. Improves safety because grommets are continuous. Operating Instructions: 4 Simple Steps Saves time and frustration. Insert grommet over end of Grommet Stretching Tool. Squeeze handle to spread the grommet. Insert cable through grommet and release the squeeze on tool handle. Remove the grommet from tool by sliding grommet off the ends..... P/N 11-06946 ..... ---

GROUND TERMINAL KITS

For S-20 series mags. Kit No. 10-52306 (AN3105) ..... ---

Reg. No.	Part No.	No. Req.	Description
1	10-30299	1	NUT - Coupling (Ground Terminal)
2	10-56507	1	CROMMET Assy.(Ground Terminal)
3	10-3383	1	FERRULE - Inner (Ground Wire)
4	10-25725	1	SLEEVE - Insulating (Ground Wire)

For 20 series mags. Kit No .....P/N 10-52305 ..... ---

Reg. No.	Part No.	No. Req.	Description
1	10-37669	1	NUT - Coupling (Ground Terminal)
2	10-7030	1	FERRULE - Outer (Ground Wire)
3	10-7029	1	FERRULE - Inner (Ground Wire)
4	10-37668	1	SLEEVE - Insulating (Ground Wire)
5	2-155	1	WASHER - Ground Wire Contact

TCM/BENDIX IMPULSE COUPLINGS

Part No.	Price
10-40307	---
10-40309	---
10-40314	---
10-40315	---

Core charge applies

TCM/BENDIX CAM ASSEMBLIES

Part No.	Price
10-40166-6	---
10-40167-4	---
10-40167-6	---

Core charge applies

SEE WEBSITE FOR MORE TCM PARTS!

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BOGERT AVIATION P-LEADS

BOGERT AVIATION SLICK STYLE P-LEADS

21M-PL-SS

P-Leads are a critical part of the ignition system and their good condition is vital to safety and airworthiness. P-leads are often overlooked and seldom replaced because replacement p-leads are not available from the aircraft manufacturer and materials to fabricate new p-leads are not commonly available. Because most leads are shielded, mechanics do not have the materials, tooling or the experience to fabricate p-leads.

These p-leads are fabricated using proper materials, genuine terminal kits and additional strain reliefs. Each lead is inspected and tested. It is the responsibility of the installing agency to certify that the p-lead is airworthy and matches the requirements of the aircraft.

Bogert P/N	Length	Description	Part No.	Price
21M-PL030-SS	30	P-lead 30" Slick Style	11-06869	---
21M-PL036-SS	36	P-lead 36" Slick Style	11-06870	---
21M-PL042-SS	42	P-lead 42" Slick Style	11-06871	---
21M-PL048-SS	48	P-lead 48" Slick Style	11-06872	---
21M-PL054-SS	54	P-lead 54" Slick Style	11-06873	---
21M-PL060-SS	60	P-lead 60" Slick Style	11-06874	---
21M-PL066-SS	66	P-lead 66" Slick Style	11-06875	---
21M-PL072-SS	72	P-lead 72" Slick Style	11-06876	---
21M-PL084-SS	84	P-lead 84" Slick Style	11-06877	---
21M-PL096-SS	96	P-lead 96" Slick Style	11-06878	---
21M-PL108-SS	108	P-lead 108" Slick Style	11-06879	---
21M-PL120-SS	120	P-lead 120" Slick Style	11-06880	---
21M-PL132-SS	132	P-lead 132" Slick Style	11-06881	---
21M-PL144-SS	144	P-lead 144" Slick Style	11-06882	---
21M-PL156-SS	156	P-lead 156" Slick Style	11-06883	---
21M-PL168-SS	168	P-lead 168" Slick Style	11-06884	---

BOGERT AVIATION BENDIX ROUND NUT P-LEADS

21M-PL-BR

P-Leads are a critical part of the ignition system and their good condition is vital to safety and airworthiness. P-leads are often overlooked and seldom replaced because replacement p-leads are not available from the aircraft manufacturer and materials to fabricate new p-leads are not commonly available. Because most leads are shielded, mechanics do not have the materials, tooling or the experience to fabricate p-leads.

These p-leads are fabricated using proper materials, genuine terminal kits and additional strain reliefs. Each lead is inspected and tested. It is the responsibility of the installing agency to certify that the p-lead is airworthy and matches the requirements of the aircraft.

Bogert P/N	Length	Description	Part No.	Price
21M-PL030-BR	30	P-lead 30" Round Nut	11-06891	---
21M-PL036-BR	36	P-lead 36" Round Nut	11-06892	---
21M-PL042-BR	42	P-lead 42" Round Nut	11-06893	---
21M-PL048-BR	48	P-lead 48" Round Nut	11-06894	---
21M-PL054-BR	54	P-lead 54" Round Nut	11-06895	---
21M-PL060-BR	60	P-lead 60" Round Nut	11-06896	---
21M-PL066-BR	66	P-lead 66" Round Nut	11-06897	---
21M-PL072-BR	72	P-lead 72" Round Nut	11-06898	---
21M-PL084-BR	84	P-lead 84" Round Nut	11-06899	---
21M-PL096-BR	96	P-lead 96" Round Nut	11-06901	---
21M-PL108-BR	108	P-lead 108" Round Nut	11-06902	---
21M-PL120-BR	120	P-lead 120" Round Nut	11-06903	---
21M-PL132-BR	132	P-lead 132" Round Nut	11-06904	---
21M-PL144-BR	144	P-lead 144" Round Nut	11-06905	---
21M-PL156-BR	156	P-lead 156" Round Nut	11-06906	---
21M-PL168-BR	168	P-lead 168" Round Nut	11-06907	---

BOGERT AVIATION BENDIX HEX NUT P-LEADS

P-Leads are a critical part of the ignition system and their good condition is vital to safety and airworthiness. P-leads are often overlooked and seldom replaced because replacement p-leads are not available from the aircraft manufacturer and materials to fabricate new p-leads are not commonly available. Because most leads are shielded, mechanics do not have the materials, tooling or the experience to fabricate p-leads.

These p-leads are fabricated using proper materials, genuine terminal kits and additional strain reliefs. Each lead is inspected and tested. It is the responsibility of the installing agency to certify that the p-lead is airworthy and matches the requirements of the aircraft.

Bogert P/N	Length	Description	Part No.	Price
21M-PL030-BH	30	P-lead 30" Hex Nut	11-06914	---
21M-PL036-BH	36	P-lead 36" Hex Nut	11-06915	---
21M-PL042-BH	42	P-lead 42" Hex Nut	11-06916	---
21M-PL048-BH	48	P-lead 48" Hex Nut	11-06917	---
21M-PL054-BH	54	P-lead 54" Hex Nut	11-06918	---
21M-PL060-BH	60	P-lead 60" Hex Nut	11-06919	---
21M-PL066-BH	66	P-lead 66" Hex Nut	11-06920	---
21M-PL072-BH	72	P-lead 72" Hex Nut	11-06921	---
21M-PL084-BH	84	P-lead 84" Hex Nut	11-06922	---
21M-PL096-BH	96	P-lead 96" Hex Nut	11-06923	---
21M-PL108-BH	108	P-lead 108" Hex Nut	11-06924	---
21M-PL120-BH	120	P-lead 120" Hex Nut	11-06925	---
21M-PL132-BH	132	P-lead 132" Hex Nut	11-06926	---
21M-PL144-BH	144	P-lead 144" Hex Nut	11-06927	---
21M-PL156-BH	156	P-lead 156" Hex Nut	11-06928	---
21M-PL168-BH	168	P-lead 168" Hex Nut	11-06929	---

BOGERT AVIATION D2000 & D3000 P-LEADS BENDIX ROUND NUT

21M-PL-DBR

P-Leads are a critical part of the ignition system and their good condition is vital to safety and airworthiness. P-leads are often overlooked and seldom replaced because replacement p-leads are not available from the aircraft manufacturer and materials to fabricate new p-leads are not commonly available. Because most leads are shielded, mechanics do not have the materials, tooling or the experience to fabricate p-leads.

These p-leads are fabricated using proper materials, genuine terminal kits and additional strain reliefs. Each lead is inspected and tested. It is the responsibility of the installing agency to certify that the is airworthy and matches the requirements of the aircraft.

Bogert P/N	Description	Part No.	Price
21M-PL030-DBR	30" Round Nut Short Style	11-13539	---
21M-PL036-DBR	36" Round Nut Short Style	11-13540	---
21M-PL042-DBR	42" Round Nut Short Style	11-13541	---
21M-PL048-DBR	48" Round Nut Short Style	11-13542	---
21M-PL054-DBR	54" Round Nut Short Style	11-13543	---
21M-PL060-DBR	60" Round Nut Short Style	11-13544	---
21M-PL66-DBR	66" Round Nut Short Style	11-13545	---
21M-PL072-DBR	72" Round Nut Short Style	11-13546	---
21M-PL084-DBR	84" Round Nut Short Style	11-13547	---
21M-PL096-DBR	96" Round Nut Short Style	11-13548	---
21M-PL108-DBR	108" Round Nut Short Style	11-13549	---
21M-PL120-DBR	120" Round Nut Short Style	11-13550	---
21M-PL132-DBR	132" Round Nut Short Style	11-13551	---
21M-PL144-DBR	144" Round Nut Short Style	11-13552	---
21M-PL156-DBR	156" Round Nut Short Style	11-13553	---
21M-PL168-DBR	168" Round Nut Short Style	11-13554	---
21M-PL180-DBR	180" Round Nut Short Style	11-13555	---
21M-PL192-DBR	192" Round Nut Short Style	11-13556	---
21M-PL204-DBR	204" Round Nut Short Style	11-13557	---
21M-PL216-DBR	216" Round Nut Short Style	11-13558	---
21M-PL228-DBR	228" Round Nut Short Style	11-13559	---
21M-PL240-DBR	240" Round Nut Short Style	11-13560	---

POWERUP BENDIX MAGNETO REPAIR KITS

These magneto repair kits are designed to simplify the Bendix magneto overhaul process by providing all of the commonly needed overhaul parts in one convenient kit. The Repair Kits contain the parts needed for minor repair such as a 500 hour inspection, and the Deluxe Repair Kits contain the parts needed for major repair such as a magneto overhaul. These parts are highest quality direct replacement parts and are approved for installation and use on certificated aircraft. The Repair Kit and Deluxe Repair Kit for the Bendix -200, -201, and -202 series magnetos contain two sets of contact assembly kits. Some parts that may be need replacing during magneto overhaul are not included in these kits.

REPAIR KIT

1 - Contact Assy. Kit (3) • 1 - Capacitor • 2 - Bearings • 1 - Oil Seal • 1 - Oil Slinger • 3 - Woodruff Keys • 1 - Cotter Pin • 1 - Cam Screw • 1 - Felt Washer • 1 - Felt Strip • 1 - Snap Ring • 1 - Carbon Brush

DELUXE REPAIR KIT

1 - Contact Assy. Kit (3) • 1 - Coil Kit • 1 - dist. Block Kit • 1 - Gear Kit • 1 - Capacitor • 2 - Bearings • 1 - Oil Seal • 1 - Oil Slinger • 3 - Woodruff Keys • 1 - Cotter Pin • 1 - Cam Screw

BENDIX SERIES S-20 & S21

Magneto Part No.	Magneto Type	Repair Kit P/N	Kit Price
10-51360-1	S4R(L)N -20,21	07-00855	---
10-51360-3			
10-51360-4			
10-51360-6			
10-51360-8			
10-51360-10	S4R(L)N -20,21	07-00825	---
10-51360-11			
10-51360-12			
10-51360-25			
10-51360-26	S4R(L)N -20,21	07-00855	---
10-51360-27			
10-51360-28			
10-51360-29	S4R(L)N -20,21	07-00825	---
10-51360-30			
10-51360-31	S4R(L)N -20,21	07-00855	---
10-51360-33	S4R(L)N -20,21	07-00825	---
10-51360-37			
10-51360-40			
10-51360-41			
10-51360-45	S4RN-21	07-00860	---
10-51360-46	S4R(L)N -20,21	07-00825	---
10-51360-47	S4RN-21	07-00860	---
10-51360-48	S4RN-21	07-00858	---
10-51360-54	S4R(L)N -20,21	07-00825	---
10-51360-55	S4R(L)N-20, 21	07-00860	---
10-51360-58			
10-51360-1 up to S.N.238468	S6R(L)N-20, -21	07-00862	---
10-51365-1 up to S.N.238469	S6R(L)N	07-00864	---
10-51365-2	S6R(L)N -20,21	07-00862	---
10-51365-5			
10-51365-7			

Magneto Part No.	Magneto Type	Repair Kit P/N	Kit Price
10-51365-9	S6R(L)N -20,21	07-00864	---
10-51365-13	S6R(L)N -20,21	07-00862	---
10-51365-14	S6R(L)N -20,21	07-00864	---
10-51365-15			
10-51365-16			
10-51365-17			
10-51365-20			
10-51365-25			
10-51365-26			
10-51365-27			
10-51365-28			
10-51365-29			
10-51365-30			
10-51365-31			
10-51365-32			
10-51365-33			
10-51365-34			
10-51365-35			
10-51365-39			
10-51365-40	S6R(L)N -20,21	07-00862	---
10-51365-41			
10-51365-42	S6R(L)N -20,21	07-00864	---
10-51365-43			
10-51365-44			
10-51365-45			
10-51365-46			
10-51365-47			
10-51365-48	S6R(L)N -20,21	07-00862	---
10-51365-53	S6R(L)N -20,21	07-00864	---
10-51365-54			
10-51365-57	S6LN -20,21	07-00868	---

MAGNETO P-LEAD ADAPTER

This unique design of the P-lead adapter ensures proper spring pressure against the internal contact. It provides secure and stable alignment, and includes a post that prevents the timer leads from falling off. This adapter allows you to connect to the timer leads of all Bendix magnetos with an immediate and positive connection. One pair per package. 1 lbs (0.5Kg) shipping weight.

Magneto P-lead Adapter (Early S2, S4, S20) ..... P/N 12-03522.....---
Magneto P-lead Adapter (S200, S600,later S2, S4, S20) ..... P/N 12-03523.....---
Magneto P-lead Adapter (D2000, D3000 Series) ..... P/N 12-03524.....---
Magneto P-lead Adapter (Complete Set)..... P/N 12-03525.....---

POWERUP MAGNETO REPAIR KITS

BENDIX SERIES S-24 & S25

Magneto P/N	Magneto Type	Repair Kit P/N	Kit Price
10-79020-5	S6R(L)N -24,25	07-00864	---
10-79020-6			
10-79020-8			
10-79020-10			
10-79020-11	S6LN -25	07-00868	---
10-79020-13	S6R(L)N -24, -25	07-00864	---
10-79020-14			
10-79020-16			

Magneto P/N	Magneto Type	Repair Kit P/N	Kit Price
10-79020-17	S6LN -25	07-00868	---
10-79020-18			
10-79020-118			
10-79020-19	S6RN-25	07-00866	---
10-79020-119			

BENDIX SERIES S-200

Magneto P/N	Magneto Type	Repair Kit P/N	Kit Price
10-163005-1	S4R(L)N-200*	07-00844	---
10-163005-2			
10-163005-3			
10-163005-4			
10-163005-5			
10-163005-7			
10-163005-10			
10-163005-11			
10-163015-1	S4R(L)N-201*	07-00844	---
10-163015-2			
10-163015-3			
10-163015-4			
10-163045-1	S4LN -204	07-00757	---
10-163045-2	S4RN -204	07-00846	---
10-163045-3	S4LN -204	07-00757	---
10-163045-4	S4RN -204	07-00846	---
10-163045-6	S4LN -204	07-00757	---
10-163045-7	S4RN -204	07-00846	---
10-163055-1	S4RN -205	07-00846	---
10-163055-2	S4LN -205	07-00757	---
10-163010-1	S6R(L)N -200*	07-00849	---
10-163010-2			
10-163010-3			
10-163010-4			
10-163010-5			

Magneto P/N	Magneto Type	Repair Kit P/N	Kit Price
10-163010-6	S6R(L)N -200*	07-00849	---
10-163010-7			
10-163010-8			
10-163010-9			
10-163010-10			
10-163010-11			
10-163010-15			
10-163010-17	S6R(L)N-201*	07-00849	---
10-163020-2			
10-163020-3			
10-163020-4			
10-163030-1	S6R(L)N-204	07-00849	---
10-163030-4			
10-163050-1	S6LN-204	07-00853	---
10-163050-2			
10-163050-3			
10-163050-5			
10-163050-6	S6RN -204	07-00851	---
10-163050-7			
10-163050-8			
10-163050-9	S6LN -204	07-00853	---
10-163060-1	S6RN -205	07-00851	---
10-163060-2	S6RN -205	07-00853	---
10-163070-1	S6RN -206	07-00853	---
10-163070-3			

***The Repair Kit and Deluxe Repair Kit for the Bendix -200, -201, and -202 Series Magnetos contain two sets of Contact Assembly Kits.**

REPLACEMENT PARTS FOR BENDIX MAGNETOS FROM POWERUP

Part No.	Description	Price
07-06301	Bearing	---
10-357078	Bushing	---
10-357164	Coil	---
10-357165-1	Coil	---
10-35717-3	Breaker Points	---
10-35717-4	Breaker Points	---
07-06308	Capacitor	---
10-52949	Distributor Block	---
07-06311	Breaker Points	---
10-382584	Breaker Points	---
07-06313	Coil	---
07-06314	Breaker Points	---
07-06315	Breaker Points	---
07-06316	Capacitor	---
07-06317	Washer	---
07-02453	Washer for Slick Mag	---
07-06318	Coil	---
07-06319	Capacitor	---
07-06320	Gasket	---
07-06321	Bushing	---
10-391088-1	Coil	---
07-06323	Gasket	---
07-06324	Gasket	---
07-06325	Distributor Block	---

Part No.	Description	Price
07-06326	Distributor Block	---
07-06327	Vent	---
10-50737	Spring	---
07-06329	Felt Washer	---
07-06330	Plug	---
10-51676	Capacitor	---
07-01066	Washer	---
07-06333	Washer	---
07-06334	Distributor Block	---
07-06335	Distributor Block	---
07-06336	Bearing	---
07-06325	Ring	---
07-06338	Ring	---
07-06339	Bearing	---
07-06341	Bushing	---
10-160844	Brush	---
07-06344	Bushing	---
07-06345	Felt Strip	---
07-06346	Packing	---
07-06347	Capacitor	---
07-06348	Washer	---
07-06350	Breaker Points	---
07-06351	Bearing	---
08-12204	MF3A Ignition Filter Cap	---

Part No.	Description	Price
08-14664	ES10-382618 Nut	---
08-14665	ES10-17050 Washer	---
08-14666	ES10-35937 Screw	---
08-14667	KA10-682024 Screw	---
08-14668	ES10-400166-4	---
08-14669	ES10-400166-5	---
08-14670	ES10-400167-8	---
08-15840	AM-3015 Screw	---
08-15841	AM-3020 Screw	---
08-15842	AM-3183-1 Nut	---
08-15843	AM-3183-2 Washer	---
08-15845	ES10-163048 Bushing	---
08-15846	ES10-349219 Wedge	---
08-15847	ES10-349248 Slinger, Oil	---
08-15848	ES10-349392-1 Flange	---
08-15849	ES10-349392-2 Flange	---
08-15850	ES10-349392-3 Flange	---
08-15851	ES10-349392-4 Flange	---
08-15852	ES10-349392-5 Flange	---
08-15853	ES10-349392-6 Flange	---
08-15854	ES10-349970 Breaker Points	---
08-15855	ES10-349971 Breaker Points	---
08-15856	ES10-35935-5 Screw	---
08-15857	ES10-3793 Washer	---

Part No.	Description	Price
08-15862	ES10-382785 Connector Strip	---
08-15863	ES10-382787 Bearing Retainer Plate	---
08-15864	ES10-382931 Coil Retention Spring	---
08-15907	ES10-4093 Washer	---
08-15910	ES10-682014 Gear Assy	---
08-15911	ES10-682016 Gear Assy	---
08-15912	ES10-685548 Washer	---
08-15915	KA10-16092 Washer	---
08-15916	KA10-35937-12 Screw	---
08-15917	KA10-361639 Bushing	---
08-15918	KA10-382568 Strip	---
08-15919	109-2 3/4 Nut	---
08-15920	113-2 5/8 Nut	---
08-15921	148A Insulator	---
08-15922	148B Brass Retainer	---
08-15923	2391 Insulator & Retainer Assembly	---
08-15924	2392 Insulator	---
08-15925	2446-2 3/4 Elbow Assembly	---
08-15926	2463-2 5/8 Elbow Assembly	---
08-15927	70043 Ferrule	---
08-15928	70044 Ferrule	---
08-15929	70046 Ferrule	---

EP

SLICK MAGNETOS

NEW 4300 AND 6300 SERIES SLICK MAGNETOS

These new lightweight aircraft magnetos are being used by many new equipment manufacturers. Weigh only 3-3/4 lbs. compared to 6-1/4 lbs. for typical old style magnetos. All units carry a One Year warranty after delivery to the user. These new model magnetos are completely rebuildable. The old 4000/4100 magnetos may not be returned as an exchange unit for a new magneto of the same model. Most other Magnetos may be returned for core credit. Drive gears are not included. *When purchasing slick magnetos separately gaskets are not included.

4300 SERIES

Magneto	ROT.	LAG	Weight	Type	Part No.	Price	Application
4309	LEFT	0	4	DD	08-01338	---	Cont. IO-240-B
4310	LEFT	30	4	RB	08-01339	---	Cont. IO-240-B
4333	RIGHT	25	4.8	IC	08-04333	---	Cont. A-65-1, A-65-3, A-65-6, A-65-6J, A-65-7 A-65-8, A-65-8F, A-65-8FJ A-75-3, A-75-6, A-75-6J, A-75-8, A-75-8F, A-75-8FJ, A-75-8J, C-75-8, C-75-8F, C-75-8FH C-75-8FHJ, C-75-8FJ, C-75-8J, C-85-8, C-85-8F C-85-8FHJ, C-85-8FJ, C-85-8J, C-90-8F, C-90-8FJ
4345	LEFT	15	4	RB	08-01345	---	Lyc. AEIO-360-A1A, AEIO-360-A1A, HIO-360-D1A, IO-360-A1A IO-360-A1C, IO-360-A2A, IO-360-A2C, IO-360-C1A IO-360-C1B, IO-360-D1A
4347	LEFT	25	4	RB	08-04347	---	Lyc. AEIO-360-A1A, AEIO-360-A1A, AEIO-360-B1B, HO-360-C1A IO-320-B1D, IO-360-B1B, IO-360-B1D, IO-360-E1A O-235-C1B, O-235-F1B, O-320-A2C, O-320-A3C O-320-B1A , O-320-B1B, O-320-B2C, O-320-B2D O-320-B3C, O-320-D2B, O-320-D2B, O-320-E2B O-360-A1D, O-360-A2D, O-360-C1C, O-360-C2C
4372	LEFT	15	4.8	IC	08-43720	---	Lyc. AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A1D, AEIO-360-A1D AEIO-360-A1E, AIO-360-A1A, AIO-360-A1B, AIO-360-B1B IO-360-A1B, IO-360-A1B6, IO-360-A1D, IO-360-A1D6 IO-360-A2B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6 IO-360-C1E6, IO-360-C1F, IO-360-K2A , O-235-K2A, O-235-K2B, O-235-K2C, O-235-L2A, O-235-M1, O-235-M2C O-235-N2A, O-235-N2C, O-235-P1, O-235-P2A, O-290-D2

Abbreviations: DD (Direct Drive), IC (Impulse Coupled), RB (Retard Breaker), TD (Tachometer Drive), P (Pressurized)
Weight does not include harness cap or magneto drive gear, and are provided for reference only.

EP

4300 SERIES

Model No.	Part No.	Price
4302	08-01337	---
4309	08-01338	---
4310	08-01339	---
4316	08-04316	---
4330	07-26967	---
4333	08-04333	---
4342	08-01343	---
4344	08-01344	---
4345	08-01345	---
4347	08-04347	---
4348	08-01346	---
4353	08-01347	---
4370	08-04370	---
4371	07-26966	---
4372	08-43720	---
4373	07-26965	---
4374	08-01349	---
4381	08-14585	---
4392	08-01350	---

6300 SERIES

Model No.	Part No.	Price
6309	6309	---
6310	6310	---
6313	6313	---
6314	6314	---
6320	6320	---
6324	6324	---
6350	6350	---
6351	6351	---
6355	6355	---
6360	6360	---
6361	6361	---
6364	6364	---
6367	6367	---
6371	6371	---
6377	6377	---
6379	6379	---
6380	6380	---
6393	6393	---
6399	6399	---

CONTINENTAL MAGNETO DRIVE GEARS

Used on Continental Engines.

Engine Eligibility	Magneto Gear No.	Part No.	Price
O-200; C90-12, 14, 16; C85-12, 14, 15; C75-12, 15; IO-240-A, B	SA36066	07-18019	---
C-125, C-145, O-300	530603	07-02003	---
O/IO-470, 520 Sancast	641728	07-02005	---
520-550 Permold	641742	07-02006	---
GTSIO-520	632797	07-02007	---
GTSIO-520	632799	07-02008	---
TCM-Continental	AEL1665	07-27109	---

LYCOMING MAGNETO DRIVE GEARS

Used on Lycoming Engines.

Engine Eligibility	Magneto Gear No.	Part No.	Price
O-235, 320, 360 Impulse Magneto	61665	07-02010	---
O-235,320, 360 Impulse Magneto	SL61665	07-02010	---
O-235,320, 360 Direct Drive Magneto	68C19622	07-02011	---
320, 360, “76”Series	LW-15659	07-02012	---
O/IO-360 Dual Magneto	LW-13643	07-02013	---
O/IO/LTIO/TIO-540	LW-19096	07-02014	---
O/IO/LTIO/TIO-540 Dual Magneto	LW-13899	07-02016	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SLICK MAGNETOS

NEW 6300 SERIES MAGNETOS

Magneto	ROT.	LAG	Weight	Type	Part No.	Price	Application
6310	RIGHT	30	4.9	IC	08-06310	---	Cont. IO-470-A, IO-470-C, IO-470-D, IO-470-E, IO-470-F, IO-470-G, IO-470-H, IO-470-J, IO-470-K, IO-470-L, IO-470-LO, IO-470-M, IO-470-N, IO-470-P, IO-470-R, IO-470-S, IO-470-T, IO-470-U, IO-470-V, IO-470-VO, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-D IO-520-E, IO-520-F, IO-520-J, IO-520-K, IO-520-L IO-520-M, IO-520-MB, IO-520-N, IO-520-NB, IO-550-A IO-550-B, IO-550-C, IO-550-D, IO-550-F, IO-550-L O-470-A , O-470-B, O-470-B-C1, O-470-E, O-470-G, O-470-G-C1, O-470-H, O-470-J, O-470-K, O-470-K-C1 O-470-L, O-470-L-C1, O-470-M, O-470-M-C1, O-470-N O-470-P, O-470-R, O-470-S, O-470-T, O-470-U TSIO-520-A, TSIO-520-B, TSIO-520-BB, TSIO-520-C, TSIO-520-D TSIO-520-DB, TSIO-520-E, TSIO-520-EB, TSIO-520-G, TSIO-520-H TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO-520-KB, TSIO-520-L TSIO-520-LB, TSIO-520-M, TSIO-520-N, TSIO-520-NB, TSIO-520-P TSIO-520-R, TSIO-520-T, TSIO-520-U, TSIO-520-UB, TSIO-520-VB TSIO-520-WB
6320	RIGHT	30	4.9	ICP	08-01353	---	Cont. LTSIO-360-E, LTSIO-360-EB, LTSIO-360-KB, LTSIO-360-RB TSIO-520-A, TSIO-520-AE, TSIO-520-AF, TSIO-520-B, TSIO-520-BB TSIO-520-C, TSIO-520-CE, TSIO-520-D, TSIO-520-DB, TSIO-520-E, TSIO-520-EB, TSIO-520-G, TSIO-520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO-520-KB, TSIO-520-L, TSIO-520-LB, TSIO-520-M TSIO-520-N, TSIO-520-NB, TSIO-520-P, TSIO-520-R, TSIO-520-T TSIO-520-U, TSIO-520-UB, TSIO-520-VB, TSIO-520-WB, TSIO-550-A, TSIO-550-B, TSIO-550-C, TSIO-550-E, TSIO-520-BE,
6350	LEFT	0	4	DD	08-06350	---	Lyc. AEIO-540-D4A5, AEIO-540-D4B5, AEIO-540-L1B5, IO-540-A1A5, IO-540-B1A5, IO-540-B1C5, IO-540-C1B5, IO-540-C1C5, IO-540-C2C IO-540-C4B5, IO-540-C4C5, IO-540-D4A5, IO-540-D4C5, IO-540-E1A5 IO-540-E1B5, IO-540-G1A5, IO-540-G1B5, IO-540-G1C5, IO-540-G1E5 iO-540-J4A5IO-540-K1A5, IO-540-K1B5, IO-540-K1D5, IO-540-K1F5 IO-540-K1G5, IO-540-K1H5, IO-540-K1J5, IO-540-K1K5, IO-540-L1A5 IO-540-L1C5, IO-540-M1A5, IO-540-N1A5, IO-540-P1A5, IO-540-R1A5 IO-540-S1A5, O-540-A1A , O-540-A1B5, O-540-A1C5, O-540-A1D O-540-A1D5, O-540-A2B, O-540-A3D5, O-540-A4A5, O-540-A4B5 O-540-A4D5, O-540-B1A5, O-540-B2A5, O-540-D1A5, O-540-E4A5 O-540-E4B5, O-540-E4B5-wd, O-540-G1A5, O-540-G1A5-wd, O-540-G2A5, O-540-G2A5-wd, O-540-J3A5, IO-540-AA1A5
6351	LEFT	35	4.8	IC	08-06351	---	Lyc. AEIO-540-D4B5, AEIO-540-L1B5, IO-540-AB1A5, IO-540-AC1A5 IO-540-G1C5, IO-540-G1D5, IO-540-G1F5, IO-540-K1A5, IO-540-K1B5 IO-540-K1C5, IO-540-K1E5, IO-540-K1G5, IO-540-K1H5, IO-540-K1K5 IO-540-L1A5, IO-540-L1C5, O-540-B2C5, O-540-E4C5, O-540-G1A5 O-540-G1A5-wd, O-540-G2A5, O-540-G2A5-wd, O-540-J3A5 IO-540-D4B5
6355	LEFT	45	4.8	IC	08-06355	---	Lyc. IO-540-C2C, O-540-A1A, O-540-A1A5, O-540-A1B5, O-540-A1C5 O-540-A1D5, O-540-A2B, O-540-A4A5, O-540-A4B5, O-540-B2B5 O-540-B2B5-wd, O-540-B2C5-wd, O-540-B4B5, O-540-B4B5-wd, O-540-E4B5-wd, O-540-H2A5, O-540-E4B5
6371	LEFT	0	4	TD	08-01358	---	Lyc. AEIO-540-D4B5, IO-540-G1D5, IO-540-G1E5, IO-540-K1B5 O-540-E4C5, IO-540-S1A5
6393	LEFT	37	4	RBP	08-06393	---	Lyc. AEIO-540-D4A5, AEIO-540-D4B5, AEIO-540-L1B5, IO-540-A1A5 IO-540-B1A5, IO-540-B1C5, IO-540-C1B5, IO-540-C1C5, IO-540-C4B5 iO-540-C4C5, IO-540-D4A5, IO-540-D4C5, IO-540-E1A5, IO-540-E1B5 IO-540-G1A5, IO-540-G1B5, IO-540-J4A5, IO-540-K1C5, IO-540-K1D5 IO-540-K1F5, IO-540-K1J5, IO-540-M1A5, IO-540-N1A5, IO-540-P1A5 IO-540-R1A5, IO-540-S1A5, O-540-A1B5, O-540-A1D, O-540-A1D5 O-540-A3D5, O-540-A4D5, O-540-B1A5, O-540-B2A5, O-540-D1A5 O-540-E4A5, O-540-E4C5, IO-540-AA1A5
6399	RIGHT	35	4.9	IC	08-01366	---	Franklin 6A-350-C1, 6A-350-C1A, 6A-350-C2, 6A-350-C2A, 6A-350-D1 6A-350-D1A, 6A-350-D1B, 6A4-150-B3, 6A4-150-B31, 6A4-150-B4 6A4-165-B3, 6A4-165-B4, 6A4-165-B6

Abbreviations: DD (Direct Drive), IC (Impulse Coupled), RB (Retard Breaker), TD (Tachometer Drive), P (Pressurized)
Weight does not include harness cap or magneto drive gear, and are provided for reference only.

EP

SLICK MAGNETOS

OVERHAULED SLICK MAGNETOS

Note: Please remove drive gears before returning Magneto cores for "Core Credit."
These lightweight aircraft magnetos are being used by many new equipment manufacturers. Weigh only 3-3/4 lbs. compared to 6-1/4 lbs. for typical old style magnetos.
In early 1988, Slick discontinued the sale of re-manufactured magnetos to offer new units only.
All units carry a six-month warranty after delivery to the user. 4000/4100/6200 series magnetos may not be returned as exchange units for a new magneto of the same model. Only 4300 and 6300 series Slick Magnetos may be returned for core credit.
Drive gears are not included.
4300 series is a direct replacement for previous 4200 series Magnetos.

4300 SERIES

Model No.	Part No.	Price
4301R	08-13699	---
4302R	08-13700	---
4309R	08-13701	---
4310R	08-13702	---
4316R	08-13703	---
4330R	08-13704	---
4333R	08-13705	---
4342R	08-13706	---
4344R	08-13707	---
4345R	08-13708	---
4347R	08-13709	---
4348R	08-13710	---
4353R	08-13711	---
4354R	08-13712	---
4370R	08-13713	---
4371R	08-13714	---
4372R	08-13715	---
4373R	08-13716	---
4374R	05-15839	---
4381R	08-13718	---
4392R	08-13719	---

6300 SERIES

Model No.	Part No.	Price
6309R	08-13720	---
6310R	08-13721	---
6313R	08-13722	---
6320R	08-13724	---
6324R	08-13725	---
6331R	08-13726	---
6340R	08-13727	---
6350R	08-13728	---
6351R	08-13729	---
6355R	08-13730	---
6360R	08-13731	---
6361R	08-13732	---
6362R	08-13733	---
6363R	08-13734	---
6364R	08-13735	---
6365R	08-13736	---
6367R	08-13737	---
6377R	08-13739	---
6380R	08-13743	---
6382R	08-13744	---
6390R	08-13745	---
6391R	08-13746	---
6393R	08-13747	---
6394R	08-13748	---
6399R	08-13749	---

CHAMPION SLICK MAGNETO 500 HOUR INSPECTION KITS

Model #	Mag Models Used	Part No.	Price
MK431	4301, 4302, 4303, 4309, 4316, 4330, 4331, 4333, 4370, 4371, 4372, 4373, 4374, 4381, 4392	08-15951	---
MK432	4310, 4345, 4347, 4348, 4353, 4354	08-15952	---
MK433	4342, 4344	08-15953	---
MK631	6310, 6313, 6314, 6320, 6324, 6362, 6364, 6367, 6377, 6379, 6380, 6382, 6399	08-15954	---
MK632	6309, 6363, 6365, 6371, 6391, 6393, 6394	08-15955	---
MK633	6390	08-15956	---

CHAMPION OVERHAULED SLICK MAGNETO

Note 1: Magnetos are overhauled by Quality Aircraft Accessories. Quality Aircraft Accessories is the Champion Authorized Repair Station for Slick Magnetos.
Note 2: Please remove drive gears before returning Magneto cores for "Core Credit."
These lightweight aircraft magnetos are being used by many new equipment manufacturers. Weigh only 3-3/4 lbs. compared to 6-1/4 lbs. for typical old style magnetos.
In early 1988, Slick discontinued the sale of re-manufactured magnetos to offer new units only.
All units carry a 12-month warranty after delivery to the user. These model magnetos are completely rebuild-able. The old 4000/4100 series magnetos and the 600 series magnetos may not be returned as an exchange unit for a new magneto of the same model. Most other Magnetos may be returned for core credit.

4300 SERIES

Description	Part No.	Price
4301R Champion OH Slick Mag Imp Coupled	08-13927	---
4309R Champion OH Slick Mag Non/Imp	08-13930	---
4310R Champion OH Slick Mag Non/Imp	08-13931	---
4370R Champion OH Slick Mag Non Impulsed	08-13916	---
4371R Champion OH Slick Mag Impulsed	08-13915	---
4372R Champion OH Slick Mag Impulsed	08-13928	---
4373R Champion OH Slick Mag Impulsed	08-13921	---
4381R Champion OH Slick Mag Impulsed	08-13918	---

6300 SERIES

Description	Part No.	Price
6310R Champion OH Slick Mag Impulsed	08-13917	---
6351R Champion OH Slick Mag Impulsed	08-13919	---
6320R Champion OH Slick Mag Impulsed	08-13920	---
6324R Champion OH Slick Mag Impulsed	08-13922	---
6361R Champion OH Slick Mag Impulsed	08-13925	---
6350R Champion OH Slick Mag Non/imp	08-13923	---
6393R Champion OH Slick Mag Non/imp	08-13926	---
6360R Champion OH Slick Mag Non/imp	08-13929	---

CHAMPION SLICK MAGNETO MAINTENANCE KITS

Inspection and maintenance are simpler and more convenient than ever before. Champion also incorporated mechanic-endorsed features to improve performance and service life. Lift-off housing –Internal timing is not disturbed during inspections. Simplified internal timing –Improved internal markings and unique Slick T-150 E-gap tool make timing easier and more accurate. Fully sealed bearings –Keeps contaminants out and grease in for smoother operation and less maintenance. Lower EMI Levels –Housing improves sealing and results in less radio noise. OEM Approved –Models are available for more than 225,000 engines –all compatible with existing Slick Ignition Harnesses.

Kit No.	Where Kit Used	Mag Models Used	Part No.	Price
MK401	All IC or DD 4cyl. Magnetos	4301, 4302, 4303, 4309, 4316, 4330, 4331, 4333, 4370, 4371, 4372, 4373, 4374, 4381, 4392	08-14592	---
MK402	All IC RB or TD 4cyl. Magnetos Excluding 4342 & 4344	4310, 4345, 4347, 4348, 4353, 4354	08-14593	---
MK403	4342 & 4344 TD 4cyl. Magnetos	4342, 4344	08-14594	---
MK601	All 6cyl. IC & DD Magnetos with small shaft	6310, 6313, 6314, 6320, 6324, 6362, 6364, 6367, 6377, 6379, 6380, 6382, 6399	08-14595	---
MK602	All 6cyl. RB Magnetos with small shaft	6309	08-14596	---
MK603	6390	6390	08-14597	---
MK604	All 6cyl. IC & DD Magnetos with large shaft	6331, 6340, 6350, 6351, 6355, 6360, 6361	08-14632	---
MK605	All 6cyl. RB & TD Magnetos with large shaft except 6390	6363, 6365, 6371, 6391, 6393, 6394	08-14633	---

EP

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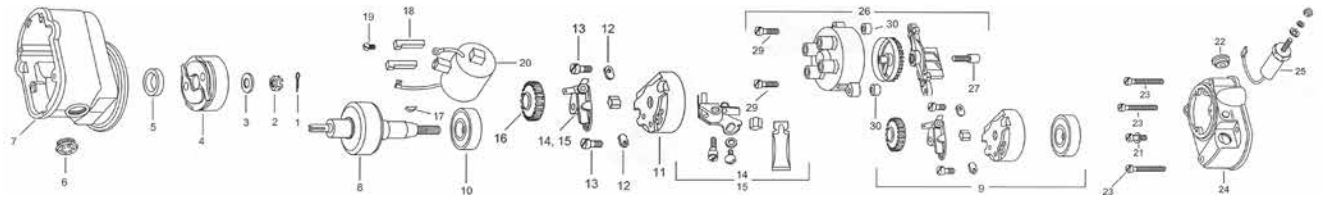
Please view our website for current prices.

SLICK MAGNETO PARTS



4300 SERVICE PARTS LIST												
No.	**Description**	**4301**	**4302**	**4303**	**4316**	**4330**	**4331**	**4342**	**4344**	**4345**	**Qty**	**Price/ea.**
1	Cotter pin	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	1	---
2	Nut	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	1	---
3	Washer	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	1	---
4	Impulse Coupling Assy.	M3007	-	-	M3076	M3068	-	-	-	-	1	---
5	Oil Seal	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	1	---
6	Air Vent	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	1	---
7	Frame	M3859	M3900	M3859	M3888	M3888	M3900	M3900	M3900	M3900	1	---
8	Rotor	M3073	M3518	M3338	M3047	M3065	M3065	M3548	M3513	M3548	1	---
9	Bearing Kit	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	K3301	K3301	K3301	1	---
10	Ball Bearing	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	1	---
12	Bearing Cap Clamp	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	2	---
13	Screw	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	2	---
14	Contact Point Kit-Primary	M3081	M3081	M3081	M3081	M3081	M3081	M3637	M3637	M3637	1	---
15	Contact Point Kit-Secondary	-	-	-	-	-	-	M3740	M3740	M3637	1	---
16	Rotor Gear	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	1	---
17	Woodruff Key	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	1	---
18	Coil Wedge	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	2	---
19	Screw	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	1	---
20	Coil*(see below)	K3975	K3975	K3975	K3975	K3975	K3975	K3975	K3975	K3975	1	---
21	Screw	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	1	---
22	Air Vent w/Hood	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	1	---
23	Screw	M3015	M3015	M3015	M3015	M3015	M3015	M3015	M3015	M3015	3	---
24	Housing, Dist.	M3902	M3902	M3902	M3902	M3902	M3902	M3874	M3874	M3832	1	---
25	Capacitor	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	1	---
27	Carbon Brush	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	1	---
--	Washer	M2532	M2532	M2532	M2532	M2532	M2532	M2532	M2532	M2532	1	---
29	Screw	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	2	---
30	Spacer	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	2	---

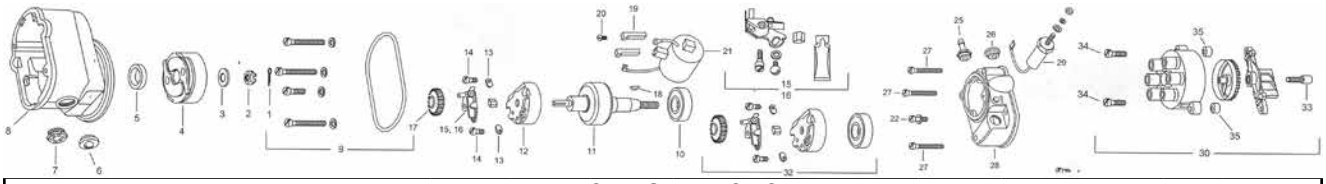
No.	Description	4347	4348	4353	4354	4370	4371	4372	4373	4374	4381	Qty	Price/ea.
1	Cotter pin	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	1	---
2	Nut	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	1	---
3	Washer	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	M3172	1	---
4	Impulse Coupling Assy.	-	-	-	M3529	-	M3163	M3100	M3529	M3689	M3007	1	---
5	Oil Seal	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	M3062	1	---
6	Air Vent	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	M1077	1	---
7	Frame	M3900	M3900	M3900	M3859	M3900	M3859	M3859	M3859	M3888	M3859	1	---
8	Rotor	M3548	M3513	M3548	M3158	M3548	M3158	M3158	M3158	M3065	M3158	1	---
9	Bearing Kit	K3301	K3301	K3301	K3301	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	K3318-4	1	---
10	Ball Bearing	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	1	---
12	Bearing Cap Clamp	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	2	---
13	Screw	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	2	---
14	Contact Point Kit-Primary	M3637	M3637	M3637	M3637	M3081	M3081	M3081	M3081	M3081	M3081	1	---
15	Contact Point Kit-Secondary	M3637	M3637	M3637	M3637	-	-	-	-	-	-	1	---
16	Rotor Gear	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	M3827	1	---
17	Woodruff Key	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	1	---
18	Coil Wedge	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	2	---
19	Screw	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	1	---
20	Coil*(see below)	K3975	K3975	K3975	K3975	K3975	K3975	K3975	K3975	K3975	K3975	1	---
21	Screw	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	M2555	1	---
22	Air Vent w/Hood	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	M3084	1	---
23	Screw	M3015	M3015	M3015	M3015	M3015	M3015	M3015	M3015	M3015	M3015	3	---
24	Housing, Dist.	M3832	M3832	M3832	M3832	M3902	M3902	M3902	M3902	M3902	M3902	1	---
25	Capacitor	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	1	---
27	Carbon Brush	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	1	---
--	Washer	M2532	M2532	M2532	M2532	M2532	M2532	M2532	M2532	M2532	M2532	1	---
29	Screw	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	2	---
30	Spacer	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	2	---

***Replaces M3525 Coil**

Slick Gasket M3426 .....P/N 08-05247 ..... **---**

Slick T153 Cam And Rotor Set .....P/N 12-01449 ..... **---**

SLICK MAGNETO PARTS



6300 SERVICE PARTS LIST

No.	Description	6310	6314	6320	6324	6331	6340	6350	6351	6355	6360	Qty.	Price ea
1	Cotter pin	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	1	---
2	Nut, Impulse Coupling	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	M3019	1	---
3	Washer	M3172	M3172	M3172	M3172	-	-	-	-	-	-	1	---
4	Impulse Coupling Ass.	M3050	M3089	M3050	M3089	M3800	-	-	M3333	M3635	-	1	---
5	Oil Seal	M3062	M3062	M3062	M3062	M3331	M3331	M3331	M3331	M3331	M3331	1	---
6	Pressure Vent Plug	-	-	M3179	M3179	M3179	M3179	-	-	-	M3179	1	---
7	Air Vent	M1077	M1077	-	-	-	-	M1077	M1077	M1077	-	1	---
8	Frame	M3837	M3847	M3837	M3847	M3888	M3900	M3900	M3859	M3859	M3900	1	---
9	Gasket Pressure Kit	-	-	K3307	K3307	K3307	K3307	-	-	-	K3307	1	---
10	Ball Bearing	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	1	---
11	Rotor	M3047	M3093	M3047	M3093	M3792	M3801	M3117	M3327	M3416	M3117	1	---
13	Bearing Cap Clamp	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	2	---
14	Screw	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	2	---
15	Contact Pt. Kit-Primary	M3081	M3081	M3081	M3081	M3081	M3081	M3081	M3081	M3081	M3081	1	---
16	Contact Pt. Kit-Secondary	-	-	-	-	-	-	-	-	-	-	1	---
17	Rotor Gear	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	1	---
18	Woodruff Key	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	1	---
19	Coil Wedge	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	2	---
20	Screw	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	1	---
21	Coil	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	1	---
22	Screw	M2555	M2555	-	-	-	-	M2555	M2555	M2555	-	1	---
24	Screw	-	-	-	-	-	-	-	-	-	-	3	---
25	Pressure Tube Fitting	-	-	M3180	M3180	M1280	M1280	-	-	-	M1280	1	---
26	Air Vent with Hood	M3084	M3084	-	-	-	-	M3084	M3084	M3084	-	1	---
27	Screw	M3015	M3015	-	-	-	-	M3015	M3015	M3015	-	3	---
28	Housing, Distributor	M3902	M3902	M3902	M3902	M3902	M3902	M3902	M3902	M3902	M3902	1	---
29	Capacitor	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	1	---
31	Washer	M2532	M2532	-	-	-	-	M2532	M2532	M2532	-	1	---
32	Bearing Kit	K3320	K3320	K3320	K3320	K3319	K3319	K3319	K3319	K3319	K3319	1	---
33	Carbon Brush	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	1	---
34	Screw	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	2	---
35--	Spacer	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	2	---

No.	Description	6361	6362	6363	6364	6365	6367	6371	6380	6382	6390	Qty.	Price ea
1	Cotter pin	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	M2556	1	---
2	Nut, Impulse Coupling	M3019	M3019	M3019	M3492	M3019	M3492	M3019	M3019	M3019	M3019	1	---
3	Washer	-	M3172	-	-	-	-	-	M3172	M3172	-	1	---
4	Impulse Coupling Ass.	M3333	M3050	-	M3590	-	M3524	-	M3050	M3050	-	1	---
5	Oil Seal	M3331	M3062	M3331	M3062	M3331	M3062	M3331	M3062	M3062	M3331	1	---
6	Pressure Vent Plug	M3179	-	M3179	-	M3179	-	-	-	-	-	1	---
7	Air Vent	-	M1077	-	M1077	-	M1077	M1077	M1968	M1968	M1077	1	---
8	Frame	M3859	M3837	M3900	M3853	M3900	M3856	M3900	M3850	M3850	M3900	1	---
9	Gasket Pressure Kit	K3307	-	K3307	-	K3307	-	-	-	-	-	1	---
10	Ball Bearing	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	M3006	1	---
11	Rotor	M3327	M3047	M3117	M3496	M3117	M3499	M3117	M3047	M3047	M3117	1	---
13	Bearing Cap Clamp	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	M3018	2	---
14	Screw	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	M3221	2	---
15	Contact Pt. Kit-Primary	M3081	M3081	M3637	M3081	M3637	M3081	M3637	M3081	M3081	M3637	1	---
16	Contact Pt. Kit-Secondary	-	-	M3637	-	M3637	-	M3637	-	-	M3740	1	---
17	Rotor Gear	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	M3828	1	---
18	Woodruff Key	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	M2536	1	---
19	Coil Wedge	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	M3040	2	---
20	Screw	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	M3020	1	---
21	Coil	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	M3975	1	---
22	Screw	-	M2555	-	M2555	-	M2555	M2555	M2555	M2555	M2555	1	---
24	Screw	-	M3125	-	-	-	-	-	-	M3125	-	3	---
25	Pressure Tube Fitting	M1280	-	M1280	-	M1280	-	-	-	-	-	1	---
26	Air Vent with Hood	-	M3084	-	M3084	-	M3084	M3084	M3084	M3084	M3084	1	---
27	Screw	-	M3015	-	M3015	-	M3015	M3015	M3015	M3015	M3015	3	---
28	Housing, Distributor	M3902	M3902	M3832	M3902	M3832	M3902	M3832	M3902	M3902	M3874	1	---
29	Capacitor	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	K3984	1	---
31	Washer	-	M2532	-	M2532	-	M2532	M2532	M2532	M2532	M2532	1	---
32	Bearing Kit	K3319	K3320	K3302	K3320	K3302	K3320	K3302	K3320	K3320	K3302	1	---
33	Carbon Brush	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	M3215	1	---
34	Screw	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	M3021	2	---
35--	Spacer	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	M3826	2	---

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SLICK IGNITION HARNESSES BY CHAMPION

AIRCRAFT ENGINE APPLICATION CHART

Engine	Engine Models	Magneto	5/8" x 24 Spark Plug Termination	3/4" x 20 Spark Plug Termination
	Textron Lycoming			
0-235	C	S4-1200	M2365	M2235
0-235	C	S4-20, S4-200	M2364	M2360
0-235	C1,C1B,C2A,C2C,E1,H2C,J2A,J2B,K2C,L2A,L2C,M1,N2A,N2C,P1,P2A	S4-1200	M2365	M2235
0-235	C1,C1B,C2A,C2C,E1,H2C,J2A,J2B,K2C,L2A,L2C,M1,N2A,N2C,P1,P2A	S4-20, S4-200	M2364	M2360
0-235	C1,C1B,C2A,J2A,L2A,M1,N2A,P1,P2A	4200,4300	M4004	M2508
0-235	C2C,E1 ,H2C,J28 ,K2C,L2C,N2C	4200,4300	M4001	M2508
0-290	D,D2	4200,4300	M4004	M2508
0-290	D,D2,D2A,D2C	S4-20, S4-200	M2364	M2360
AEI0-320	D1B,D2B	4200,4300	M4005	M2508
AEI0-320	D1B,D2B,E1A,E2B	S4-1200	M2365	M2235
AEI0-320	D1B,D2B,E1A,E2B	S4-20, S4-200	M2364	M2360
AEI0-320	E1A	4200,4300	M4004	M2508
AEI0-320	E2B	4200,4300	M4001	M2508
AI0-320	B1B	4200,4300	M4005	M2508
AI0-320	B1B	S4-1200	M2365	M2235
AI0-320	B1B	S4-20, S4-200	M2364	M2360
I0-320	B1A,B1C,B1D,B2A,B2B,C1A,C1C,D1A,D1B,E1A,E2A,E2B,F1A	S4-1200	M2365	M2235
I0-320	BlA,B1C,B1D,B2A,B2B,C1A,D1A,D1B,E1A,E2A,E2B,F1A	S4-20, S4-200	M2364	M2360
I0-320	B1A,C1A,F1A	4200,4300	M4000	M2508
I0-320	B1C,B2A,E1A,E2A	4200,4300	M4004	M2508
I0-320	B1D	4200,4300	M4007	M2508
I0-320	C1C	S4-20, S4-200	M2112	M2360
I0-320	D1A,D18	4200,4300	M4005	M2508
I0-320	E2B	4200,4300	M4001	M2508
LI0-320	B1A,C1A	4200,4300	M4000	M2508
LI0-320	B1A,C1A	S4-1200	M2365	M2235
LI0-320	B1A,C1A	S4-20, S4-200	M2112	M2360
0-320	A1A,A1B,A2A,A2C,A2D,A3A,A3B,B1A,B2A,B2B,B2D,83A,B3B,83C,C1A, C1B,C3A,C38,D1A,D1B,D1F,D2A,D2B,D2J,D3G,E1A,E1B,EIC,EIF,E2A,E2C, E2D,E2E,E2F,E2G,E2H,E3D ,E3H	S4-1200	M2365	M2235
0-320	A1A,A1B,A2A,A2D,A3A,A3B,B1A,B1B,B2A,B2B,B3A,B38,C1A,C1B,C3A, C3B,D1A,D1B,D2A,D2B,D2J,D3G,E1A,E1B,El C,EIF,E2A,E2C,E2D,E2E,E2F, E2G,E2H,E3D,E3H	S4-20, S4-200	M2364	M2360
0-320	A1A,A2D,C1A,C3A,D3G,E2D,E2E,E2G,E3D	4200,4300	M4001	M2508
0-320	A1B,A2A,A2B,A2C,A3A,A3B,B1A,B1B,B2A,B2B,B2C,B2D,B3A,B3B,B3C, C1B,C3B,D1A,D28,E1A,E2A,E2H	4200,4300	M4004	M2508
0-320	A2B,A2C,B2C,82D,83C	S4-20, S4-200	M2402	M2360
0-320	DIF	S4-20, S4-200	M2363	M2360
0-320	DIF,D2A,E1C,EIF,E2F,E3H	4200, 4300	M4005	M2508
0-320	D2J	4200, 4300	M4002	M2508
0-320	E2C	4200, 4300	M4007	M2508
0-320	H2AD	DUAL		M2917
0-340	A1A	S4-20, S4-200	M2364	M2360
AEI0-360	A1A,A1B,A1B6,A1D,B1F,B1G6,B2F,B2F6,B4A,H1A	S4-1200	M2365	M2235
AEI0-360	A IA,A1B,A1B6,A1D,B1F,B1G6,B2F,B2F6,B4A,H1A	S4-20, S4-200	M2364	M2360
AEI0-360	A1A,A1D,B4A	4200, 4300	M4004	M4029
AEI0-360	A1B,A1B6	4200, 4300	M4012	M4029
AEI0-360	B1F,B2F	4200, 4300	M4005	M2508
AEI0-360	B1G6,B2F6,H1A	4200, 4300	M4001	M2508
AI0-360	A1A,A1B	4200, 4300		M4029
AI0-360	A1A,A1B	S4-20, S4-200	M2364	M2360
AI0-360	A1A,A1B,B1B	S4-1200	M2365	M2235
AI0-360	AIB,B1B	4200,4300	M4001	M4029
AI0-360	B1B	S4-1200		M2492
HI0-360	A1A	S4-20, S4-200	M2817	M2859
HI0-360	B1A,C1A	S4-20, S4-200	M2795	M2856
HI0-360	D1A	4200,4300	M4007	
HI0-360	D1A	S4-1200	M2655	
HI0-360	E1AD,E1BD,F1AD	DUAL		M2944
H0-360	A1A,B1A,81BB	S4-20, S4-200	M2364	M2360
I0-360	A1A,A1B,A1B6,A1C,A1D6,A2A,A2B,B1A,B1B,B1D,BIE,81F,B1F6,B2End, 82Ewd,82F6,C1A,C1C6,C1D6,D1A,K2A	S4-20, S4-200	M2364	M2360
I0-360	A1A,A1B,A1C,A2A,A2B,B1A,B1B,B1D,B1F,BIF6,B2End,B2Ewd,B2F6,			
	C1A,C1D6,K2A	S4-1200	M2365	M2235
I0-360	A1A,A2A,B1B,B1D,C1A,K2A	4200,4300	M4004	M2508
I0-360	A1B,A1B6,A1C,A1D6,C1B,C1D6	4200,4300	M4012	M2508
I0-360	A1B6	S4-1200	M2420	M2641
I0-360	A1B6D,J1A6D	DUAL		M2915
I0-360	A1D6	S4-1200	M2420	M2235
I0-360	A2B,B1E,B2End	4200,4300	M4006	M2508
I0-360	A3B6D	DUAL		M2916
I0-360	B1E	S4-1200	M2423	M2235
I0-360	B1F,B2Ewd,B2F6	4200,4300	M4005	M2508
I0-360	B1F6	4200,4300	M4001	M2508
I0-360	C1B,D1A	S4-1200	M2365	M2616
I0-360	C1C,C1C6,C1E6	4200,4300	M4027	M2508
I0-360	C1C,C1E6,C1F	S4-1200	M2423	M2616
I0-360	C1C,C1E6,C1F	S4-20, S4-200	M2658	M2661
I0-360	C1C6	S4-1200	M2423	
I0-360	C1F,D1A	4200,4300	M4007	M2508
IV0-360	A1A	S4-20, S4-200	M2364	M4033
LI0-360	B1A,C1A	S4-20, S4-200	M2364	M2360
LI0-360	C1E6	4200,4300	M4027	

FOR A COMPLETE APPLICATION GUIDE AND PART NUMBERS PLEASE VISIT WWW.AIRCRAFTSPRUCE.COM

EP

POWERUP – SLICK START – BENDIX KITS

SLICKSTART

Improve your engine starting hot or cold Slick Start™ unleashes a firestorm of ignition energy to get your engine started and get you off the ground. SlickSTART is so effective, even sub-optimal fuel mixtures and seriously fouled plugs won't stop the capacitive discharge output from providing the ignition boost your engine needs for reliable starts every time. SlickSTART's sure starting power...

Delivers up to 340% more spark energy to your plugs. Overcomes poor engine priming. Reduces costly electrical stress to your battery and starter. Requires no maintenance. Is approved for use with Slick magnetos.

Plus, it's inexpensive and easy to install. Just add SlickSTART to your impulse coupled magnetos or replace your antiquated starting. The FAA-PMA approved SlickSTART™ magneto booster system integrates solid state electronics with conventional ignition hardware to deliver optimum spark energy for improved engine starting under all operating conditions.

SS1001 SlickStart for Slick ..... P/N 08-01000 ..... ---
SS1002 SlickStart for Bendix ..... P/N 08-01005 ..... ---

SLICK MAGNETO ASSEMBLY & TIMING KIT

T-100 Assembly and Timing Kit for field-repairable Slick 4300/6300 Series Magnetos.
P/N 07-00788 ..... ---

CHAMPION SLICK MAGNETO ADAPTER M2638-74 (.810)

P/N M2638-4 ..... ---

T118 SLICK MAGNETO LOCKING PIN

Use this pin to lock the gears of Slick® magnetos and maintain the correct timing position prior to removal or installation of the magneto.....P/N 12-01441 ..... ---

T-200 SLICK® IGNITION HARNESS TOOL KIT

The Slick® Assembly Tool Kit is required to install all Slick Ignition Harness Leads on all magneto harness caps and spark plug termination ends. The complete kit includes: Pressing Tool, #72 Drill Bit, Pin Vise, Stripping Tool, Spring Assembly Tool, and Shield Stripper. Complete instructions for the use of this kit can be found in the Unison Industries L-1178 Service Manual. P/N 12-00720 ..... ---

SLICK IMPULSE COUPLING INSPECTION GAUGE

T-155 Impulse Coupling Inspection Gauge for Slick.
P/N 12-01450 ..... ---

CHAMPION MAGNETO OIL

Champion Magneto Oil R5008 - 32 Fluid Ounces.
P/N 08-07199 ..... ---

EP

POWERUP REPLACEMENT PARTS FOR SLICK TYPE MAGNETOS

Magneto replacement parts manufactured by Aero Accessories Inc. are made to specifications dictated by Federal Aviation Administration parts manufacturing approvals. They are highest quality, direct replacement parts, approved for installation and use on certified aircraft.

Note: Always refer to the parts and service manual of the original equipment manufacturer or to Aircraft Type Certificate Data Sheets or other FAA-approved data to determine eligibility of a part or component for use in any application.

*Kit Includes: A13081, A13081-1, -2, & AM3611

**Includes: AM3183, AM3182-1, & -2

Model No.	Description	Champion Part No.	Part No.	Price
A-13081-8	Contact Lube	---	07-01081	---
AM-3183-1	Nut	---	07-02452	---
AM-3183-2	Washer	---	07-02453	---
AM3611	Cam	---	07-02456	---
ES3307	Pressure Gasket Kit	K3307	07-19939	---
ES1077	Air Vent	M1077	07-19931	---
AM-2536	Woodruff Key	M2536	07-02446	---
AM-2540	Cotter Pin	M2540	07-02447	---
AM-3006	Ball Bearing	M3006	07-02448	---
AM-3015	Screw	M3015	08-15840	---
ES3018	Bearing Cap Clamp	M3018	07-19932	---
ES3019	Nut	M3019	07-19933	---
AM-3020	Screw	M3020	08-15841	---
AM-3021	Screw	M3021	07-02449	---
ES3040	Coil Wedge	M3040	07-19934	---
AM-3062	Oil Seal	M3062	07-01089	---
A-13081	Contact Assembly Kit*	M3081	07-02445	---
ES3084	Air Vent w/ Hood	M3084	07-19935	---

Model No.	Description	Champion Part No.	Part No.	Price
ES3172	Washer	M3172	07-19936	---
ES3179	Vent Plug	M3179	07-19937	---
ES3180	Tube Fitting	M3180	07-19938	---
AM-3183	Capacitor Assembly**	M3183	07-02451	---
AM-3215	Brush & Spring	M3215	07-02454	---
ES3331	Oil Seal	M3331	07-19940	---
AM-3485	Bearing & Cap Assembly	M3485	07-02455	---
ES3637	Contact Point	M3637	07-19941	---
ES3740	Contact Point	M3740	07-19942	---
ES3826	Spacer	M3826	07-19943	---
ES3827	Rotor Gear	M3827	07-19945	---
ES3828	Rotor Gear	M3828	07-19946	---
A-13009	Coil	M3975	07-02444	---
ES917	Impulse Spring	M917	07-19944	---
ES3822	Distributor Block Assembly 4 Cylinder	K3822	08-16227	---
ES510406	Gear Assembly 4 Cylinder	K3008	08-16232	---

POWERUP BENDIX SERIES MAGNETO REPAIR KITS

These magneto repair kits and deluxe repair kits are designed to simplify the Bendix magneto overhaul process by providing all of the commonly needed overhaul parts in one convenient kit. The Repair Kits contain the parts needed for minor repair such as a 500 hour inspection, and the Deluxe Repair Kits contain the parts needed for major repair such as a magneto overhaul. These parts are highest quality direct replacement parts and are approved for installation and use on certificated aircraft. AB-200445SC-D and AB-200445SC-R kits contain two sets of contact assembly kits. Some parts that may be need replacing during magneto overhaul are not included in these kits.

4 CYLINDER KITS

Repair Kit Type	Tempest Kit P/N	Part No.	Price
Minor	AB-484SC-R	10-04844	---
Minor	AB-485SC-R	10-04845	---
Minor	AB-200445SC-R	10-04849	---
Deluxe	AB-484SC-D	10-04851	---
Deluxe	AB-200445SC-D	10-04855	---

6 CYLINDER KITS

Repair Kit Type	Tempest Kit P/N	Part No.	Price
Minor	AB-684SC-R	10-04847	---
Minor	AB-685SC-R	10-04848	---
Minor	AB-200645SC-R	10-04850	---

SEE WWW.AIRCRAFTSPRUCE.COM FOR MAGNETO KIT ELIGIBILITY AND CONTENTS.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

POWERUP NEW MAGNETOS

POWERUP MAGNETOS

Utilizing over 35 years of manufacturing FAA/PMA replacement magneto parts, Powerup is proud to introduce an ALL NEW direct magneto replacement for general aviation. Performance improvements including coil, capacitor, breaker points and impulse coupling make the Powerup Mag the superior quality option for General Aviation.

Note: Core charge added to cart once magneto is added to cart. Please remove drive gears before returning Magneto cores for "Core Credit."

POWERUP 4300 SERIES MAGNETOS

Model Number	Part No.	Price
Powerup Factory New ES4301 Magneto	07-25726	---
Powerup Factory New ES4302 Magneto	07-25727	---
Powerup Factory New ES4309 Magneto	07-25728	---
Powerup Factory New ES4310 Magneto	07-25729	---
Powerup Factory New ES4330 Magneto	07-25730	---
Powerup Factory New ES4333 Magneto	07-25731	---
Powerup Factory New ES4342 Magneto	07-25732	---
Powerup Factory New ES4345 Magneto	07-25733	---
Powerup Factory New ES4347 Magneto	07-25734	---
Powerup Factory New ES4348 Magneto	07-25735	---
Powerup Factory New ES4353 Magneto	07-25736	---
Powerup Factory New ES4354 Magneto	07-25737	---
Powerup Factory New ES4370 Magneto	07-25738	---
Powerup Factory New ES4371 Magneto	07-25739	---
Powerup Factory New ES4372 Magneto	07-25740	---
Powerup Factory New ES4373 Magneto	07-25741	---
Powerup Factory New ES4374 Magneto	07-25742	---
Powerup Factory New ES4381 Magneto	07-25743	---
Powerup Factory New ES4392 Magneto	07-25744	---

POWERUP 6300 SERIES MAGNETOS

Model Number	Part No.	Price
Powerup Factory New ES6309 Magneto	07-25745	---
Powerup Factory New ES6313 Magneto	07-25747	---
Powerup Factory New ES6314 Magneto	07-25748	---
Powerup Factory New ES6320 Magneto	07-25749	---
Powerup Factory New ES6324 Magneto	07-25750	---
Powerup Factory New ES6340 Magneto	07-25751	---
Powerup Factory New ES6350 Magneto	07-25752	---
Powerup Factory New ES6351 Magneto	07-25753	---
Powerup Factory New ES6355 Magneto	07-25754	---
Powerup Factory New ES6360 Magneto	07-25755	---
Powerup Factory New ES6361 Magneto	07-25756	---
Powerup Factory New ES6362 Magneto	07-25757	---
Powerup Factory New ES6363 Magneto	07-25758	---
Powerup Factory New ES6364 Magneto	07-25759	---
Powerup Factory New ES6365 Magneto	07-25760	---
Powerup Factory New ES6367 Magneto	07-25761	---
Powerup Factory New ES6371 Magneto	07-25762	---
Powerup Factory New ES6377 Magneto	07-25763	---
Powerup Factory New ES6379 Magneto	07-25764	---
Powerup Factory New ES6390 Magneto	07-25767	---
Powerup Factory New ES6391 Magneto	07-25768	---
Powerup Factory New ES6393 Magneto	07-25769	---
Powerup Factory New ES6394 Magneto	07-25770	---

POWERUP SLICK MAGNETO 500 HOUR REPAIR KITS

In The Box:
• Contact Point Kits • Carbon Brush • Capacitor Kit • Impulse Coupling Spring • Rotor Gear • Cotter Pin

Description	Mag Models Used	Part No.	Price
ES431	4301, 4302, 4303, 4309, 4316, 4330, 4331, 4333, 4370, 4371, 4372, 4373, 4374, 4381, 4392	07-26904	---
ES432	4310, 4345, 4347, 4348, 4353, 4354	07-26905	---
ES433	4342, 4344	07-26906	---
ES631	6310, 6313, 6314, 6320, 6324, 6362, 6364, 6367, 6377, 6379, 6380, 6382, 6399	07-26907	---
ES632	6309, 6363, 6365, 6371, 6391, 6393, 6394	07-26908	---
ES633	6390	07-26909	---

POWERUP MASTER OVERHAUL KITS FOR SLICK MAGNETOS

In The Box:
• Contact Point Kits • Double Sealed Bearing • Bearing Cap Assembly • Condenser • Rotor Gear • Cotter Pin • Coil • Distributer Block and Gear • Woodruff Key • Oil Seal • Washer • Impulse Coupler

Description	Where Kit Used	Mag Models Used	Part No.	Price
ES401 Kit	All IC or DD 4 cylinders Magnetos	4301, 4302, 4303, 4309, 4316, 4330, 4331, 4333, 4370, 4371, 4372, 4373, 4374, 4381, 4392	07-26896	---
ES402 Kit	All IC RB or TD 4 cylinders Magnetos Excluding 4342 & 4344	4310, 4345, 4347, 4348, 4353, 4354	07-26897	---
ES403 Kit	4342 & 4344 TD 4 cylinders Magnetos	4342, 4344	07-26898	---
ES601 Kit	All 6 cylinders IC & DD Magnetos with small shaft	6310, 6313, 6314, 6320, 6324, 6362, 6364, 6367, 6377, 6379, 6380, 6382, 6399	07-26899	---
ES602 Kit	All 6 cylinders RB Magnetos with small shaft	6309	07-26900	---
ES603 Kit	6390	6390	07-26901	---
ES604 Kit	All 6 cylinders IC & DD Magnetos with large shaft	6331, 6340, 6350, 6351, 6355, 6360, 6361	07-26902	---
ES605 Kit	All 6 cylinders RB & TD Magnetos with large shaft except 6390	6363, 6365, 6371, 6391, 6393, 6394	07-26903	---

EP

POWERUP IGNITION HARNESSES

Powerup ignition harness incorporate a negative-pitch spring design (the tip of the coil spring extends inward) allowing the coil spring tip to lie flat against the spark plug electrode, providing 360 degreee contact. Powerup ignition harnesses are FAA/PMA approved for Lycoming, Continental and Franklin engines. Should your preferred Harness not be in stock, please see Powerup Blue Ignition Harnesses

NOTE: PART NUMBERING SYSTEM and CROSS REFERENCE: The part numbering system is "user Friendly" for quickly cross-referencing to both Champion and Unison Harnesses. The "KA1"prefix is equivalent to the Champion "CH1" or the Unison"M" with the balance of the part number remaining the same. Add the suffix "E"to the part number to designate the 90 degree steel elbow terminations whenever ordering an "Elbow" harness. (EXAMPLE: KA12121E).

ALL PART NUMBERS LISTED ARE FOR RED IGNITION HARNESSES. BLUE AND YELLOW ARE ALSO AVAILABLE. FOR A COMPLETE SELECTION, PLEASE VISIT WWW.AIRCRAFTSPRUCE.COM

Engine	Continental Engine Model	Magneto	5/8" x 24 Spark Plug Term.	Spruce P/N	Price	3/4" x 20 Spark Plug Term.	Spruce P/N	Price
A-50		Slick 400 Series	KA17005	08-01206	---	---	---	---
A-65		Slick 400 Series	KA17005	08-01206	---	---	---	---
A-75		Slick 400 Series	KA17005	08-01206	---	---	---	---
A-80		Slick 400 Series	KA17005	08-01206	---	---	---	---
C-75	12, 15	Eisemann LA-4	KA17008	08-01212	---	KA17007	08-01210	---
C-75		Slick 400 Series	KA17005	08-01206	---	---	---	---
C-75	8	Slick 400 Series	KA17005	08-01206	---	---	---	---
C-75	12, 15	S4-20, S4-200	KA12007	08-01113	---	KA17006	08-01208	---
C-75	12, 15	4200, 4300	KA11780	08-01103	---	KA17011	08-01214	---
C-85	12, 12FJ, 14, 15	Eisemann LA-4	KA17008	08-01212	---	KA17007	08-01210	---
C-85	12, 12FJ, 14, 15	S4-20, S4-200	KA12007	08-01113	---	KA17006	08-01208	---
C-85	12, 12FJ, 14, 15	4200, 4300	KA11780	08-01103	---	KA17011	08-01214	---
C-90	12, 14, 16, 16F	Eisemann LA-4	KA17007	08-01210	---	KA17008	08-01212	---
C-90	12, 14, 16, 16F	S4-20, S4-200	KA12007	08-01113	---	KA17006	08-01208	---
C-90	12, 14, 16, 16F	4200, 4300	KA11780	08-01103	---	KA17011	08-01214	---
C-125	2	S6-20, S6-200	KA12130	08-01125	---	---	---	---
C-125	ALL	6200, 6300	KA12932	08-01147	---	---	---	---
C-145	2, 2H	S6-20, S6-200	KA12130	08-01125	---	---	---	---
C-145	ALL	6200, 6300	KA12932	08-01147	---	---	---	---
E-165	2. 3. 4	S6-20, S6-200	KA12176	08-01131	---	KA12339	08-01163	---
E-185	1, 2, 3, 5, 8, 9, 10, 11	S6-20, S6-200	KA12176	08-01131	---	KA12339	08-01163	---
O-200	A, B, C	Eisemann LA-4	KA17008	08-01212	---	KA17007	08-01210	---
O-200	A, B, C	S4-20, S4-200	KA12007	08-01113	---	KA17006	08-01208	---
O-200	A, B, C	4200, 4300	KA11780	08-01103	---	KA17011	08-01214	---
E-225	2, 4, 8, 9	S6-20, S6-200	KA12176	08-01131	---	KA12339	08-01163	---
O-300	A, B, C, D, E	Slick 600 Series	KA11884	08-01107	---	KA12318	08-01161	---
O-300	A, B, C, D, E	S6-20, S6-200	KA12130	08-01125	---	---	---	---
O-300	A, B, C, D, E	6200, 6300	KA12932	08-01147	---	---	---	---
IO-360	A, C, CB, D, DB, G, GB, H, HB, J, JB, K, KB	S6-20, S6-200	---	---	---	KA12015	08-01115	---
IO-360	C, D, G	6200. 6300	---	---	---	KA12778	08-01146	---
LTSIO-360	E, EB, KB	S6-20, S6-200	---	---	---	KA12015	08-01115	---
TSIO-360	A, AB, B, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB, MB	S6-20, S6-200	---	---	---	KA12015	08-01115	---
TSIO-360	A, B	6200, 6300	---	---	---	KA12778	08-01146	---
GIO-470	A	S6-20, S6-200	KA11978	08-01111	---	KA11730	08-01098	---
IO-470	A, C, D, E, F, G, H, J, K, L, LO, M, N, P, R, S, T, U, V, VO	Slick 600 Series	KA11878	08-01105	---	KA11480	08-01095	---
IO-470	C, D, E, F, G, H, L, M, N, P, R, S, U, V	S6-20, S6-200	KA11978	08-01111	---	KA11730	08-01098	---
IO-470	F, J, K, N, S	S6-1200	---	---	---	KA12216	08-01133	---
IO-470	F, J, K, N, S	S6-1200	---	---	---	KA11740	08-01101	---
IO-470	A, C, D, E, F, H, J, K, L, LO, M, N, P, R, S, T, U, V, VO	6200, 6300	KA12828	08-01185	---	KA12381	08-01142	---
O-470	A, B, BC1, E, G, GC1, H, J, K, KC1, L, LC1, M, MC1, N, P, R, S, U	Slick 600 Series	KA11878	08-01105	---	KA11480	08-01095	---
O-470	A, B, BC1, E, G, GC1, H, J, K, KC1, L, LC1, M, MC1, N, P, R, S, U	6200, 6300	KA12828	08-01185	---	KA12381	08-01142	---
O-470	A, B, E, M, P, R	S6-20, S6-200	KA11978	08-01111	---	KA11730	08-01098	---
O-470	R, S, U	S6-1200	---	---	---	KA11740	08-01101	---
O-470	R, S, U	S6-1200	---	---	---	KA12216	08-01133	---
TSIO-470	B, C, D	S6-20, S6-200	KA11978	08-01111	---	KA11730	08-01098	---
GTSIO-520	C, D, F, H, K, L, M, N	S6-1200	---	---	---	KA11950	08-01109	---
IO-520	A, B, BA, BB, C, CB, D, E, J, K, L, M, MB, N, NB	Slick 600 Series	KA11878	08-01105	---	KA11480	08-01095	---
IO-520	B,BB, E	S6-20, S6-200	KA11978	08-01111	---	KA11730	08-01098	---
IO-520	A, BA, BB, C, CB, D, F, J, K, L,	S6-1200	---	---	---	KA12216	08-01133	---
IO-520	A, B, BA, BB, C, CB, D, F, J, K, L,	S6-1200	---	---	---	KA11740	08-01101	---
IO-520	A, B, BA, BB, C, CB, D, E, J, K, L, M, MB, N, NB	6200, 6300	KA12828	08-01185	---	KA12381	08-01142	---
LTSIO-520	AE	S6-1200	---	---	---	KA11740	08-01101	---
LTSIO-520	AE	S6-1200	---	---	---	KA12216	08-01133	---
TSIO-520	AE, AF, C, D, DB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, WB	S6-1200	---	---	---	KA11740	08-01101	---
TSIO-520	AE, AF, C, DB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, WB	S6-1200	---	---	---	KA12216	08-01133	---
TSIO-520	A, B, BB, BE, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, U, UB, VB, WB	Slick 600 Series	KA11878	08-01105	---	KA11480	08-01095	---
TSIO-520	A, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, U, UB, VB, WB	6200, 6300	KA12828	08-01185	---	KA12381	08-01142	---

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Please view our website for current prices.

POWERUP IGNITION HARNESSES

Engine	Lycoming Engine Model	Magneto	5/8" x 24 Spark Plug Term.	Spruce Part No.	Price	3/4" x 20 Spark Plug Term.	Spruce Part No.	Price
O-235	C1, C1A, C1B, C1C, C2A, C2C, E1, E1B, E2A, F1, F1B, F2A, G1, G1B, G2A, H2C, J2A, K2A, K2C, L2A, L2C, M1, M2C, M3C, N2A, N2C, P1, P2A, P2C, P3C	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
O-235	C2B, E2B, F2B, G2B, J2B, K2B	S4-1200	KA12365	08-01082	---	KA12235	08-01134	---
O-235	C2B, E2B, F2B, G2B, J2B, K2B	4200, 4300	KA14001	08-01148	---	KA12508	08-01145	---
O-290	D, D2, D2A, D2B, D2C	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
O-290	D2, D2B	4200, 4300	KA14001	08-01148	---	KA12508	08-01145	---
O-290	D, D2, D2B, D2C	4200, 4300	KA14004	08-01152	---			
AEIO-320	E1A, E1B, E2A, E2B	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
AEIO-320	E1A, E1B, E2A, E2B	4200, 4300				KA12508	08-01145	---
AIO-320	A1A, A1B, A2A, A2B, B1B, C1B	S4-1200	KA12365	08-01082	---	KA12235	08-01134	---
AIO-320	A1A, A1B, A2A, A2B, B1B, C1B	4200, 4300	KA14001	08-01148	---	KA12508	08-01145	---
IO-320	A1A, A2A, B1A, B1B, B1C, B2A, C1A, C1B, E1A, E1B, E2A, E2B, F1A	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
IO-320	B1A, B2A, C1A	S4-20, S4-200	KA12112	08-01119	---	KA12360	08-01136	---
IO-320	B1D, B1E, D1A, D1B, D1C	S4-1200	KA12365	08-01082	---	KA12235	08-01134	---
IO-320	B1D, B1E, D1A, D1B, D1C	4200, 4300	KA14001	08-01148	---	KA12508	08-01145	---
IO-320	E2A	4200, 4300	KA14004	08-01152	---	KA12508	08-01145	---
LIO-320	B1A, C1A	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
LIO-320	B1A, C1A	S4-1200	KA12365	08-01082	---	KA12235	08-01134	---
O-320	A1A, A1B, A2A, A2B, A2C, A2D, A3A, A3B, A3C, B1A, B1B, B2A, B2B, B2C, B3A, B3B, B3C, C1A, C1B, C2A, C2B, C2C, C3A, C3B, C3C, D1A, D1B, D1D, D2A, D2B, D2G, D2H, D2J, D3G, E1A, E1B, E2A, E2B, E2D, E2G, E2H, E3H	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
O-320	B1A, B1B, B2B, B3A, B3B	S4-20, S4-200	KA12112	08-01119	---	KA12360	08-01136	---
O-320	D1C, D1F, D2C, D2F, E1C, E1F, E1J, E2C, E2F	S4-1200	KA12365	08-01082	---	KA12235	08-01134	---
O-320	A2A, A2B, A2C, A3A, A3B, A3C, B3C, D1A, D2A, D2B, E2B	4200, 4300	KA14004	08-01152	---			
O-320	D1C, D1F, D2C, D2F, E1C, E1F, E1J, E2C, E2F	4200, 4300	KA14001	08-01148	---	KA12508	08-01145	---
O-340	A1A, A2A, B1A	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
O-340	A1A, A2A	4200, 4300	KA14004	08-01152	---			
AEIO-360	A1A, A1D, A1E, A2A, B1B, B4A, H1A	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
AEIO-360	A1B, A1B6, A2B, B1F, B1F6, B1G6, B2F	S4-1200	KA12365	08-01082	---	KA12235	08-01134	---
AEIO-360	A1B, A1B6, A2B, B1F, B1F6, B1G6, B2F	4200, 4300	KA14001	08-01148	---	KA12508	08-01145	---
AIO-360	A1A, A1B, A2A, A2B, B1B	S4-1200	KA12365	08-01082	---	KA12235	08-01134	---
AIO-360	A1A, A1B, A2A, A2B, B1B	4200, 4300	KA14001	08-01148	---	KA12508	08-01145	---
HIO-360	A1A, B1A, B1B, C1A	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
HIO-360	C1B, D1A	S4-1200	KA12365	08-01082	---	KA12235	08-01134	---
HIO-360	C1B, D1A	4200, 4300	KA14001	08-01148	---	KA12508	08-01145	---
HIO-360	B1A	4200, 4300	KA14004	08-01152	---			
HO-360	A1A, B1A, B1B	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
HO-360	A1A	4200, 4300	KA14004	08-01152	---			
IO-360	A1A, A1D, A2A, B1A, B1B, B1C, B1D, B4A, C1A, K1A	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
IO-360	A1B, A1B6, A1C, A1D6, A2B, A2C, B1E, B1F, B2E, B2F, B2F6, C1B, C1C, C1C6, D1A, E1A, F1A	S4-1200	KA12365	08-01082	---	KA12235	08-01134	---
IO-360	C1E6	S4-1200	KA12423	08-01144	---	KA12616	08-01170	---
IO-360	A1B, A1B6, A1C, A1D6, A2B, A2C, B1E, B1F, B2E, B1F, B2E, B2F, B2F6, C1B, C1C, C1C6, E1A, F1A	4200, 4300	KA14001	08-01148	---	KA12508	08-01145	---
IO-360	A1C, A2B, A2C, B2E, C1B, C1C, D1A	4200, 4300	KA14002	08-01150	---	KA12508	08-01145	---
IO-360	B1A, B1B, B1D,	4200, 4300	KA14004	08-01152	---			
IVO-360	A1A	S4-20, S4-200	KA12364	08-01138	---	KA14033	08-01198	---
IVO-360	A1A	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
LIO-360	C1E6	S4-1200	KA12365	08-01082	---	KA12235	08-01134	---
LIO-360	C1E6	S4-1200	KA12423	08-01144	---	KA12616	08-01170	---
LIO-360	C1E6	4200, 4300	KA14001	08-01148	---	KA12508	08-01145	---
O-360	A1A, A1C, A1D, A1H, A2A, A2D, A2E, A2H, A3A, A3D, A4A, A4D, A4J, A4K, A4M, A4N, B1A, B1B, B2A, B2B, C1A, C1C, C2E, D1A, D2A, D2B, F1A6, G1A6,	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
O-360	A1F, A1F6, A1G, A1G6, A2F, A2G, A4G, C1F	S4-1200	KA12365	08-01082	---	KA12235	08-01134	---
O-360	A1F, A1F6, A2G, A1G6, A2F, A2G, A4G, C1F	4200, 4300	KA14001	08-01148	---	KA12508	08-01145	---
O-360	A1A, A1D, A2A, A2D, D2A, D2B	4200, 4300	KA14004	08-01152	---			
VO-360	A1A, A1B, B1A	S4-20, S4-200	KA12364	08-01138	---	KA12360	08-01136	---
VO-360	A1A, A1B, B1A	S4-20, S4-200				KA14033	08-01198	---
GO-435	C2A2, C2B2, C2B2-6	S6-20, S6-200	KA12474	08-01167	---			
TVO-435	F1A	S6-20, S6-200	KA12712	08-01176	---	KA12865	08-01192	---
TVO-435	A1A, B1A, D1B, G1B	S6-1200	KA12709	08-01174	---	KA12447	08-01165	---
VO-435	A1D, A1E, A1F	S6-20, S6-200	KA12709	08-01174	---	KA12447	08-01165	---

POWERUP IGNITION HARNESSES

Engine	Lycoming Engine Model Cont'd	Magneto	5/8" X 24 Spark Plug Term.	Spruce Part No.	Price	3/4" X 20 Spark Plug Term.	Spruce Part No.	Price
VO-435	B1A	S6-20, S6-200	KA12712	08-01176	---	KA12865	08-01192	---
GO-480	G1J6	S6-1200	KA12742	08-01178	---			
GSO-480	B1J6	S6-1200	KA12745	08-01180	---			
GSO-480	B1A6, B1B6, B1C6, B1E6, B1F6, B1G6, B2C6, B2D6, B2G6, B2H6	S6-20, S6-200	KA12854	08-01190	---			
IGSO-480	A1D6, A1E6	S6-1200	KA12854	08-01190	---			
IGSO-480	A1A6	S6-20, S6-200	KA12244	08-01155	---	KA12247	08-01157	---
AEIO-540	D4A5	S6-1200	KA12154	08-01127	---	KA12157	08-01129	---
AEIO-540	D4A5	S6-20, S6-200	KA12121	08-01123	---	KA12120	08-01121	---
IGSO-540	A1D, A1E, A1F, B1C	S6-1200	KA12259	08-01159	---			
IO-540	A1A5, B1A5, B1B5, B1C5, C1B5, C1C5, C2C, C4B5, D4A5, E1A5, G1A5, K1C5, K1D5, N1A5, P1A5, R1A5, S1A5	S6-20, S6-200	KA12121	08-01123	---	KA12120	08-01121	---
IO-540	A1A5, B1A5, B1B5, B1C5, C1B5, C1C5, C2C, C4B5, D4A5, E1A5, G1A5, K1C5, K1D5, N1A5, P1A5, R1A5, S1A5	S6-1200	KA12154	08-01127	---	KA12157	08-01129	---
O-540	A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4B5, A4C5, A4D5, B1A5, B1B5, B2A5, B2B5, B4A5, B4B5, D1A5, E4A5, E4B5, F1A5, F1B5, H1A5, H2A5	S6-20, S6-200	KA12121	08-01123	---	KA12120	08-01121	---
O-540	A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4B5, A4C5, A4D5, B1A5, B1B5, B2A5, B2B5, B4A5, B4B5, D1A5, E4A5, E4B5, F1A5, F1B5, H1A5, H2A5	S6-1200	KA12154	08-01127	---	KA12157	08-01129	---
TIO-540	A1A, A1B, A2A, A2B	S6-1200				KA12037	08-01117	---
TIO-540	C1A	S6-1200	KA12790	08-01183	---	KA12851	08-01188	---
TIO-540	C1A	S6-1200	KA12154	08-01127	---	KA12157	08-01129	---
TIO-540	C1A	S6-20, S6-200	KA12121	08-01123	---	KA12120	08-01121	---
TIVO-540	A2A	S6-1200	KA12709	08-01174	---	KA12447	08-01165	---
VO-540	A1A, B1A, B1B, B1D, B2D, C1C3	S6-1200	KA12709	08-01174	---	KA12447	08-01165	---
TIGO-541	E1A	S6-1200				KA12890	08-01194	---
TIO-541	E1A4, E1B4, E1C4, E1D4, E1E4	S6-1200				KA12628	08-01172	---

FOR A COMPLETE APPLICATION CHART PLEASE VISIT WWW.AIRCRAFTSPRUCE.COM

EP

POWERUP INDIVIDUAL HARNESS LEADS

The leads are made with our industry leading Powerup red ignition harness wire cut 72 inches in length with available 5/8 or 3/4 spark plug termination. Also shipping with the leads is an attachment kit with magneto attachment hardware for both Slick and Bendix/CMI magnetos. Trim to fit.

Powerup E100-72 Trim To Fit Lead 72" 3/4 Lead Assy W/ Elbow ..... P/N 08-13222.....---
Powerup E200-72 Trim To Fit 72" 5/8 Lead Assy W/ Elbow ..... P/N 08-13223.....---
Powerup S100-72 72" 3/4 Lead Assy Straight ..... P/N 08-13224.....---
Powerup S200-72 72" 5/8 Lead Assy Straight ..... P/N 08-13225.....---

POWERUP DUAL IGNITION HARNESSES - OVERHAULED

Dual Ignition Harness - If you demand quality and a quick turn-around, then Powerup overhauled Bendix/TCM Magnetos and FAA/PMA approved replacement parts are your answer. From the in-house manufacturing of FAA/PMA replacement parts, to the final assembly and testing of the magneto, the the job is done right. The claims of superior service and reliability are backed by a six month warranty.

Model No.	Description	Part No.	Price
10-821615-4R	Dual Ignition Harness	08-15939	---
10-821635-4R	Dual Ignition Harness	08-15944	---
10-821625-2YR	Yellow Dual Ignition Harness	08-17042	---

POWERUP DUAL IGNITION HARNESSES - NEW

Powerup ignition harness incorporate a negative-pitch spring design (the tip of the coil spring extends inward) allowing the coil spring tip to lie flat against the spark plug electrode, providing 360 degreee contact. Powerup ignition harnesses are FAA/PMA approved for Lycoming, Continental and Franklin engines.

Model No.	Description	Part No.	Price
KA12915	Dual Ignition Harness	08-17697	---
KA12916	Dual Ignition Harness	08-17698	---
KA12917	Dual Ignition Harness	08-17699	---
KA12918	Dual Ignition Harness	08-17700	---
KA12919	Dual Ignition Harness	08-17701	---
KA12942	Dual Ignition Harness	08-17702	---
KA12944	Dual Ignition Harness	08-17703	---
KA12949	Dual Ignition Harness	08-17704	---

Model No.	Description	Part No.	Price
KA12995	Dual Ignition Harness	08-17705	---
KA12997	Dual Ignition Harness	08-17706	---
KA1415-12	Dual Ignition Harness	08-17707	---
KA1444-6	Dual Ignition Harness	08-17708	---
KA1614-36	Dual Ignition Harness	08-17709	---
KA1624-6	Dual Ignition Harness	08-17710	---
KA1825-2	Dual Ignition Harness	08-17711	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

LIGHTWEIGHT HIGH TEMPERATURE SHIELDED IGNITION HARNESSES

MFG. BY ACS PRODUCTS CO.

New production ignition harnesses for Experimental Aircraft at remarkably low prices. Late type 5MM wire constructed of 16 strands of tightly braided copper wire impregnated with scuff resistant white silicone. All strands must fracture before a complete open circuit type failure occurs thus extending lead life. Lead flexibility is retained from -65° to 400° F. Moisture and cleaning solvent penetration is eliminated by the impregnated silicone coating. This extremely flexible wire lends itself to sharp bends thereby eliminating the need for old style harness elbows. No soldered joints in the grounding circuit. Custom made for most 4 cylinder and 6 cylinder engines using Bendix or Eisemann magnetos and 4 cylinder engines using Slick magnetos. Cable outlet plates are not furnished for Bendix and Eisemann mags as these are already installed on the magnetos in service. They must be purchased separately for new magneto installations. Harnesses for Slick magnetos are furnished with the backplates installed. Standard harnesses for the Bendix S4/S6 mags are fitted with a male nut which screws into the threaded outlet plate on the back of the mag.

HARNESSES FOR BENDIX AND EISEMANN MAGNETOS

All 4-Cylinder Harnesses (8 wires)..... ---
All 6-Cylinder Harnesses (12 wires)..... ---
(Not Available for Bendix S1200 Magnetos)
Replacement Leads to 48" (Specify Length).....**Call For Quote**
(Bendix & Eisemann only)

HARNESSES FOR SLICK MAGNETOS

For 4000, 4200 & 4300 Series Mags (4 Cyl.) Only.....**Call For Quote**
All Harnesses Furnished with Cable Ties and Clamps
For plugs with 5/8-24 barrel size only.

BENDIX MAGNETOS	
Engine/Magneto	**Part No.**
Cont. A-65/S4	12301-02
C-85/S4	12301-05
C-90/S4	12301-06
0-200/S4	12301-05
LYC. 0-100/S4	12301-21
0-235/S4	12301-21
0-290/S4	12301-21
0-320/S4	12301-22
0-360/S4	12301-22
Cont. A-65/SF4	12302-02
A-75/SF4	12302-03
Lyc. 0-100/SF4	12302-20
0-235/SF4	12302-20
0-290/SF4	12302-20
Cont. E-185/S6	12305-10
E-225/S6	12305-11
O-470/S6	12305-13
C-145/S6	12305-09
O-300/S6	12305-09
Lyc. 0-540/S6	12305-22
IO-540/S6	12305-22
Franklin165/S6	12305-41
Cont.C-125-SF6	12307-08
Lyc.0-435/SF6	12307-23

SLICK MAGNETOS	
Engine/Magneto	**Part No.**
VW (M2266) *	12304-32
Lyc 0-235 (M2363)	12304-33
0-290 (M2363)	12304-33
0-320,0-360 (M2363)	12304-33
Cont. 0-200 (1780)	12304-31
C-75 (1780)	12304-31
C-85 (1780)	12304-31
C-90 (1780)	12304-31
Lyc 0-540	12304-34
EISEMANN MAGNETOS	
Engine/Magneto	**Part No.**
Cont A65/LA-4	12303-04
A75/LA-4	12303-04
C-85/LA-4	12303-07
E-185/LA-6	12306-12
Franklin 150/LA-6	12306-40
Continental C90/LA4	12303-08
Continental E-185/LA6	12306-12
Franklin 150/LA6	12306-40

***This harness only comes with 4-leads.**

ENGINE BAFFLE IGNITION WIRE SEALS

P/N 376

P/N M2376

P/N M2375

P/N M2755

Seal Type	Part No.	Each
5mm Wire Seal Slick 3-Wire	07-26962	---
5mm Wire Seal Slick 2-Wire	M2375	---
5mm Wire clamp Slick 2-Wire	M2755	---

HIGH TENSION CABLE

Unshielded 7MM ignition cable consists of tinned conductor, rubber insulation, reinforced glass braid and Hypalon jacket that resists sun, weather, heat, chemicals and oxidation by ozone. Temperature range -65° to 250°F
P/N 07-03700 .....**--- Ft.**

CHAMPION IGNITERS

The research and development team at Champion Aerospace has pioneered the use of exotic materials to extend the life and enhance performance of turbine Igniters. The patented Champion Series 21™ Igniter and lead incorporate numerous design benefits that improve performance, installation, and maintenance. Variable immersion depth allows it to be used in multiple engine platforms. The self-centering conical contact virtually eliminates flashover and arcing.

Description	Part No.	Price
CH31547C Champion Igniter	07-03236	---
CH31621A Champion Igniter	07-03237	---
CH31815-2 Champion Igniter	07-03239	---
CH34055 Champion Igniter	07-03241	---
CH34269 Champion Igniter	07-03243	---
CH34419 Champion Igniter	07-19263	---
CH34659-3 Champion Igniter	07-03244	---
CH34682 Champion Igniter	07-03245	---
CH34745 Champion Igniter	07-03246	---
CH34804-3 Champion Igniter	07-03247	---
CH34817 Champion Igniter	07-19370	---
FHE146-7A Champion Igniter	07-03287	---
FHE164E Champion Igniter	07-03288	---
FHE246-4 Champion Igniter	07-03289	---
CH31487A Champion Igniter	07-03492	---
Y183-5 Champion Igniter	07-03548	---
CH53399-06 Turbine Ignition Lead	07-03250	---
CH3442-3 Turbine Ignition Lead	07-18032	---
CH34758-3 Champion Igniter	08-17134	---

CHAMPION EXCITERS

Champion Aerospace manufactures a broad range of high performance ignition exciters. From pioneering designs in solid-state technology, to the new, patented PPT exciter, the first true high-tension solid-state exciter, Champion combines the reliability and performance critical to aviation applications. The Champion solid state ignition exciters are significantly lighter and more compact than any existing product on the market. PPT combines the technologies of both solid-state and spark-gap technology, but suffers none of the drawbacks.

Part No.	Description	Price
08-13063	CH92106-5 Champion Exchange Exciter Box	---
07-03549	Champion 305012-2 Exciter Box Exchange	---

CHAMPION IGNITION LEADS

Champion Aerospace designs and manufactures a full range of aerospace ignition leads for turbine engine applications. New ignition leads from Champion Aerospace are available for a wide range of turbine engines, from small turbine APU applications to the large GE and PW turbofan engines, including the new Rolls Royce Trent 900 engines for A380 aircraft.

53067-21 Ignition Lead JT15D.....P/N 07-03542 ..... ---
53067-38.5 Ignition Lead JT15D.....P/N 07-03543 ..... ---
53399-09 Ignition Lead.....P/N 07-03546 ..... ---
53399-06 Ignition Lead.....P/N 07-03250 ..... ---
53442-3 Ignition Lead.....P/N 07-18032 ..... ---
53247 Ignition Lead.....P/N 07-18000 ..... ---
CH53399-02 Ignition Lead .....P/N 07-03248 ..... ---
CH53490 Lead Ignition Cable .....P/N 08-17135 ..... ---

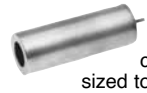
L2E LIGHT SPEED TO EFIS ADAPTER

The L2e allows you to display the parameters of your Light Speed ignition module directly on your EFIS during flight. Your EFIS can record these parameters for download and diagnosis ..P/N 10-06222 .....

WIRE TERMINAL CLIP

For 7 MM unshielded harnesses.
P/N 07-03500 ..... ---

CT-496 IGNITER LEAD CONNECTOR WEAR GAUGE



Igniter lead connector wear gauge for ARP670 type 2M fittings common to PT6 leads and others. Features a calibrated pin to measure connector wear. Opposite end sized to measure neoprene grommet expansion.
Note: Many leads incorporate type 2M and 3M connectors at opposite ends......P/N 12-04959 .....

EP

SUREFLY ELECTRICAL IGNITION

SureFly is an FAA certified electronic (solid state) magneto replacement. The SureFly Ignition Module replaces one magneto - generally the left or impulse-coupled/starting magneto on most aircraft. 4 and 6-Cylinder models are available for Lycoming and Continental engines.

Replacing just one magneto eliminates magneto maintenance and cuts associated costs in half! Zero maintenance. Zero rebuilds. Zero overhauls. Cessna 172s, 470-powered Bonanzas and AA5 Grumman owners can utilize the advanced timing feature for improved efficiency. Other single-engine fixed-wing aircraft will be able to enable the timing advance feature as the FAA extends the Airframe STC AML.

Features:

Reliability - For SureFly customers, 500 hours simply isn't good enough. When their airplanes stop flying to service low time parts, they stop making money. SureFly Electronic Ignition Modules provide customers with a service life of up to 2,400 hours. Simply install a new SIM at every engine overhaul.

Safety - The magneto itself isn't inherently unsafe. What makes an externally powered electronic ignition more safe than a mag is a fact that it is simply never opened-up, inspected and potentially rebuilt/overhauled like a magneto is every 500 hours. No mechanical parts to wear = Zero maintenance = a 0% chance of introducing a maintenance-related ignition failure.

Performance - Longer spark dwell and RPM/manifold pressure-moderated timing advance, up to engine manufacturers' prescribed maximum, provide SureFly customers real fuel savings. Low power consumption and lightweight (up to 2 lbs. lighter than a Bendix magneto) make SureFly Ignition Modules light on fuel and light on the wallet too.

Better Starts - SureFly perfectly controls timing at TDC below 400 rpm which combined with longer spark dwell and the option to use wider gapped spark plugs, makes starting a breeze, greatly minimizing wear and tear on high-performance starters and electrical systems.

Trusted - SureFly Ignition Modules are hand built in Granbury, Texas almost entirely from components manufactured in Texas and Michigan. Designed, engineered, created and supported by the same team that brought you Sky-Tec starters and Plane-Power alternators, our approach to SureFly shares the same commitment, experience and passion for creating and bringing sensible, affordable solutions to the piston engine aviation market.

FAA approves SureFlydual electronic ignitions.

SIM4P 4 CYLINDER IMPULSE COUPLED MAGNETO REPLACEMENT

The vast majority of 4-Cylinder applications will replace the impulse coupled magneto. 4.4 lbs. **Now approved for the replacement of both mechanical magnetos on most certified four- and six-cylinder Lycoming and Continental powered aircraft with dual SureFly Electonic Ignitions. Please review the Engine and Airframe STC's and installation instructions for further application information**.... P/N 08-17074 .....

SIM4N 4 CYLINDER NON-IMPULSE MAGNETO REPLACEMENT

Replaces 4-cylinder non-impulse coupled magnetos on Lycoming & Continental engines. 4.0 lbs.

P/N 08-17075..... ---

SIM6L 6 CYLINDER LYCOMING MAGNETO REPLACEMENT

Replaces 6-cylinder magnetos on Lycoming engines. 5.2 lbs.....P/N 08-17076 ..... ---

SIM6C 6 CYLINDER CONTINENTAL MAGNETO REPLACEMENT

Replaces 6-cylinder magnetos on Continental engines. 5.0 lbs..... P/N 08-17077..... ---

SUREFLY TACH2 TACHOMETER SIGNAL CONVERTER

The Tach Signal Converter (Tach2) converts SIM P-Lead signals to negative –going signals compatible with the Horizon P-1000 digital tachometer input and to a positive-going 0-5V square wave signal compatible with electronic tachometers that rely on a signal from a magnetic pickup inserted into a magneto. Tach 2 can accept one or two SIM P-Leads as input, converts and conditions the signals and outputs them to corresponding output terminals. The Tach2 must be installed in the aircraft cabin and secured to the airframe with screws and nuts. The Tach2 power input from the aircraft bus may range from 8.5VDC to + 30VDC without damage. The Tach2 consumes less than 0.25A of power. 0.2 lbs .....P/N 08-17284 ..... ---

E-MAG ELECTRONIC IGNITION

Note: New installation requires a harness, and possibly a gear, depending on the application (See Accessories). Verify requirements before ordering.

Of all the E-MAG innovations, the self-powering capability of the "P" Model is the most significant. It solves the largest single issue faced by all electronic ignitions - their need for an uninterruptible power supply. Power back-up strategies that a) compromise ignition effectiveness, b) solve only half the problem, or c) require additional maintenance are less than ideal. Next-Generation ignitions need a better solution. So what does a next-generation electrical back-up need to do? Above all, it has to be reliable. When it's needed, it has to work - period. It should operate for as long as needed. Whether it's the last 10 minutes of a Sunday pleasure flight, or you're crossing the Atlantic. It should be maintenance-free. Benign neglect should not prevent it from working. On the rare occasion it's needed, it should automatically engage without operator intervention. A simple and convenient pre-flight check should confirm it's working properly. This P model ignition has an internal three phase brushless alternator that produce enough power to sustain the ignition when the engine is turning 800 rpm, or more. If the aircraft buss voltage goes off-line, the ignition has an internal alternator. With this arrangement, dual electronic ignitions can be run "clean". No back-up batteries and no back-up magnetos.

The P Model Built-In Alternator adds no (zero) mechanical contact/wear parts to the system. Adds only a few ounces of weight. Requires no additional hardware to install. Will operate as long as the engine is turning.

Description	Part No.	Price
"P" Model (P-MAG) Ignition - Lycoming (and like) engines.	07-01292	---
E-Mag P Model Ignition with Alternator 4C Continental - Ignition compatible with 4 cylinder Continental O-200 Engines.	07-01311	---
E-Mag Gear Adapter Kit C 200	07-01805	---
E-Mag Spark Plug Adapters w/o Gaskets (4 pk) Short Reach	08-06753	---
E-Mag Spark Plug Adapters w/ Gaskets (4 pk) Short Reach	08-06753-1	---
E-Mag Spark Plug Adapters w/ Gaskets (4 pk) Long Reach	08-07608	---
E-Mag Spark Plug Adapters w/o Gaskets (4 pk) Long Reach	08-07608-1	---

E-MAG 200 SERIES IGNITION FOR 6 CYL EXPERIMENTAL AIRCRAFT

E-Mag is a next-generation electronic ignition, designed to serve as an upgrade or replacement for traditional aircraft engine magnetos.

Built-in back-up operating power - The importance of power supply for any electronic ignition cannot be overstated. E-MAG's internal alternator (redundant back-up power) provides automatic switching between aircraft (14v to 28v) and internal operating power.

High energy spark – A standard feature for any modern electronic ignition. But to avoid too much of a good thing E-MAGs uses a closed-loop energy management system (not too much – not too little) to reduce operating stresses.

Variable spark firing – Another standard feature for electronic ignitions. Tuning the advance range is key. Series 200 has simple built-in tools for adjusting the variable boundaries. **Note**: An optional cockpit switch lets the pilot choose fixed or variable mode firing [required for boosted engines].

Simplified mechanical section - All moving mechanical elements are housed in the nose (engine oil/wet) section with a solid barrier separating the electronics/dry section – i.e. no oil seal to wear out.

Multi-strike firing and boosted energy at start-up. Starts more like a car.

Lycoming .....P/N 07-26839 ..... ---

Continental (TCM) .....P/N 07-26840 ..... ---

IGNITION KITS

Auto style custom fit kits. Include low-resistance spiral wound lead wire, end fittings, and tool. Auto style harness with terminals and boots installed on both ends. Same wire used in their custom trim-to-fit kit.

Description	Part No.	Price
Auto Harness - 4 Lead Kit without adapter	07-02716	---
Spark plug adapters - 4 pack	08-06753	---

IGNITION DRIVE GEARS

Description	Part No.	Price
Lycoming 68C19622	07-02011	---
Superior SL68C19622	08-11837	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ELECTROAIR 4 CYLINDER ELECTRONIC IGNITION KITS

The EIS-41000 Series Electronic Ignition Kit is a fully STC'd kit for most Lycoming 4cyl engines. Replacing one magneto with the EIS-41000 will typically improve fuel economy on average by 10-15% (many operators have reported consistent fuel savings of 1gph or greater). Additionally, there will be an improvement in horsepower, smoother engine operation, and improved high altitude performance. Used on either 12V or 24V systems. Kit includes: all the required parts to replace the direct drive magneto (typically, the right hand mag), or the Impulse Coupled Magneto (typically left handed) in most 4cyl Lycoming engines. (Please refer to the FAA approved model list to verify the system can be installed on your engine - Note: engines are being added regularly).

Description	Part No.	Price
EIS-41000 Direct Drive (non-impulse coupled)	08-07272	---
EIS-41000IC Impulse Coupled	08-07505	---
EIS-41000T Twin Engine Aircraft; Lycoming 4cyl Engines. Standard Rotation, Direct Drive (non-impulse coupled) Magneto Replacement	08-07667	---
EIS-41000TIC Twin Engine Aircraft; Lycoming 4cyl Engines. Standard Rotation Impulse Coupled Magneto Replacement	08-07668	---
EIS-41000TLH Twin Engine Aircraft; Lycoming 4cyl Engines. Counter-Rotating, Direct Drive (non-impulse coupled) Magneto Replacement	08-07669	---
EIS-41000TLHIC Twin Engine Aircraft; Lycoming 4cyl Engines. Counter Rotating, Impulse Coupled Magneto Replacement	08-07670	---
EIS-61000-T5M 6 Cylinder EIS Lycoming Normal ASP MAG Timing Housing	08-16206	---
The EIS-42000D Electronic Ignition Kit is a fully STC'd kit to replace the Bendix single drive, dual magneto with a complete, Dual Electronic ignition.	08-17417	---

PLEASE VISIT WWW.AIRCRAFTSPRUCE.COM FOR ADDITIONAL IGNITION KITS.

ELECTROAIR SPARK PLUGS

Electroair partnered with Tempest to produce its new HE spark plug line. The HE plugs are STC'd and PMA'd for use with the Electroair electronic ignition systems. The plugs are approved for all aircraft, and installations approved for use with the Electroair electronic ignition systems. Electroair's "HE" plug line include a massive electrode with extended reach outer electrodes has a gap of 0.032. This optimal gap accommodates the high energy output of 70,000 volts delivered by the Electroair system.

EAREM37HE.....P/N 08-07714 ..... ---
EAREM38HE.....P/N 08-07715 ..... ---
EARHB32E.....P/N 08-16212 ..... ---

ELECTROAIR SPARK PLUG WIRE ASSEMBLY

Electroair Spark Plug Wire Assy. 8 Ft .....P/N 08-17585 ..... ---
Electroair Spark Plug Wire Assy. 10 Ft .....P/N 08-17586 ..... ---
Electroair Spark Plug Wire Assy. 12 Ft. for 6 Cylinder Twin
P/N 08-17587 ..... ---

ELECTROAIR CERTIFIED SPARK PLUG WIRE ASSEMBLY KIT

EA-4000 Spark Plug Wire Assembly Kit
The EA-4000 spark plug wire kit comes complete with enough wire and spark plug hardware to replace any lead in the system. This easy to assemble spark plug lead allows the maintainer to quickly and neatly install a spark plug lead. Routing leads individually allows for a cleaner and easier installation .....P/N 08-07678 ..... ---

ELECTROAIR 6 CYLINDER ELECTRONIC IGNITION KITS

The EIS-61000 Electronic Ignition Kit is a fully STC'd kit for Continental 470 & 520, non-turbo'd, series engines, installed on single engine aircraft. Replacing one magneto with the EIS-61000 will typically improve fuel economy. This kit can be used on either 12V or 24V systems. Kit includes: all the required parts to replace one magneto.

Description	Part No.	Price
EIS 61000-1C Electroair Cont. 6 Cyl.	08-12237	---
EIS 6100-T1C Electroair Cont. 6 Cyl.	08-13155	---
EIS-61000-1M for Continental 360, 470, 520, &550 non turbo series engines on single engine aircraft.	08-13696	---
EIS-61000-T1M for Continental 360, 470, 520, &550 non turbo series engines on twin engine aircraft.	08-13759	---
EIS-61000-5C for Lycoming 540 non turbo series engines on single engine aircraft.	08-13760	---
EIS-61000-T5C for Lycoming 540 non turbo series engines on twin engine aircraft.	08-13761	---

Note: The following are replacement units for the EIS systems.		
EA-6000/EA-6000TP the brains of the Electroair Electronic Ignition System. This replacement unit if for 6cyl engines. This unit can be used in either a 12V or 24V application.	08-13157	---
EA-11000 Crank Shaft Trigger Wheel kit mounts on the bare spot of the crank shaft just behind the propeller flange. **NOTE**: Minimum clearance of 0.650" between the front of the engine case and propeller studs is REQUIRED. Please check this dimension before starting installation ordering the kit.	08-13158	---
EA-8000 is the 6cyl Coil Pack used in the EIS-61000 Electronic Ignition System. This unit can be used in either a 12V or 24V application.	08-13159	---
The EA-3000 replaces the direct drive magneto found on most 4cyl Lycoming engines. This unit provides the EA-1000 Controller with the engine position and RPM information needed to drive the electronic ignition system.	08-07671	---

ELECTROAIR IGNITION SWITCH PANELS

The EA-13000 is approved ignition switch panel with STC to control both the Electroair electronic ignition system (EIS) and the magneto.

Horizontal .....P/N 08-14693 ..... ---
Vertical.....P/N 08-14694 ..... ---

EA-15000 IGNITION SWITCH PANELS

The EA-15000 is an approved ignition switch panel to control two magnetos and a starter in a conventional ignition configuration (magneto to magneto). The panel comes in two versions, a horizontal one and a vertical one. This set of ignition switches is approved to replace the outdated and venerable rotary key-switch.

Horizontal .....P/N 08-17141 ..... ---
Vertical.....P/N 08-17142 ..... ---

SMOOTH POWER BACKUP BATTERY SYSTEM CONTROL PANEL

Smooth Power Backup Battery System Control Panel.
12V Backup Battery System Control Panel ...P/N 08-17592 ..... ---
24V Backup Battery System Control Panel ...P/N 08-17593 ..... ---

EP

LIGHT SPEED IGNITION

PLASMA II PLUS CDI

The Plasma II is Light Speed Engineering's basic electronic ignition system for aircraft. It is a lightweight, high-energy capacitor discharge system containing all of the essential Plasma CDI features. Its smaller size and lighter weight sets it apart from any other ignition source.

PLASMA III CDI

The Plasma III Capacitor Discharge System is high performance ignition for all 4-cyl and 6-cyl aircraft engines. Its long duration spark and optimized timing curve makes more horsepower and improves fuel efficiency- at all altitudes. Other benefits include quick starts, reduced maintenance, light weight, lower EGT's and up to 20% more range. As with all LSE ignitions, RPM and manifold pressure inputs are used for our proprietary timing curves. The Plasma III is also capable of displaying the current timing advance, manifold pressure and rpm on an optional lightweight LCD display. The Plasma III can easily replace one or both magnetos, making your engine run better under all conditions.

PLASMA CAPACITIVE DISCHARGE IGNITION SYSTEMS

All Plasma CDI systems include: high tension leads, harness, spark plugs, spark plug adapters, ignition coils with mounting bracket, and Hall Effect Sensor module OR Direct Crank Sensor assembly.

Description	Part No.	Price
Plasma II Plus: 4 Cylinder Hall Effect Module	08-06295	---
Plasma III: 4 Cylinder Hall Effect Module	08-00676	---
Plasma III: 6 Cylinder Direct Crank Sensor	08-00677	---
Plasma III: 4 Cylinder with Mini DC Sensor	08-12136	---
Plasma III: 6 Cylinder with Mini DC Sensor	08-12137	---
Dual Plasma CDI Systems		
Dual Plasma II Plus: 4 Cylinder Direct Crank Sensor	08-06296	---
Dual Plasma III: 4 Cylinder Direct Crank Sensor	08-06298	---
Dual Plasma III: 4 Cylinder Hall Effect Module	08-06299	---
Dual Plasma III: 6 Cylinder Direct Crank Sensor	08-06300	---
Dual Plasma III: 4 Cylinder with Mini DC Sensor	08-12139	---
Dual Plasma III: 6 Cylinder with Mini DC Sensor	08-12140	---
Options		
LSE Plasma Super-C Turbo	08-06301	---
LSE Franklin and Continental engine ignition systems	08-06302	---

LSE ALUMINUM BRONZE REACH SPARK PLUG ADAPTERS

Light Speed Engineering's standard issue spark plugs are pictured to the left. Single ground electrode with a short body make these a durable option for most applications. W27EMR-C: Used on standard and high compression engines. The standard reach (1/2") spark plug adaptor is also pictured here (08-14009). This adaptor is used when converting aircraft engines using 1/2" reach aircraft spark plugs to 14mm plugs. Light Speed Engineering's spark plug adaptors are made of high strength aluminum bronze. *These plugs and adaptors are included with ignition kit purchase for those with 1/2" reach.

1/2" Reach Spark Plug Adapter .....P/N 08-14009 ..... ---
3/4" Reach Spark Plug Adapter .....P/N 08-14010 ..... ---
HHP Long Reach Spark Plug Adapter.....P/N 08-14011 ..... ---

NGK SPARK PLUGS

- 98% pure copper core increases heat dissipation for more reliable starts and prevents spark plug from overheating
- High-grade alumina silicate ceramic insulator for superior strength and heat transfer
- Cold-rolled threads to prevent cross-threading and damage to cylinder heads
- Trivalent plating eliminates need for anti-seize and corrugated ribs prevent flashover

Note: The spark plugs listed are not for aircraft application

Size	Description	Part No.	Price
10mm	CR5HSB	08-06263	---
12 mm	DCPR7E	08-00504	---
12 mm	DCPR8E (Removable Terminal Nut)	08-01228	---
12 mm	DCPR8E (Solid Terminal Nut)	08-07044	---
12 mm	DR8EA	08-00693	---
14 mm	BR8EIX	08-00650	---
14 mm	BR8ES	08-00736	---
14 mm	BR8ES (Removable Terminal Nut)	08-00736-1	---
14 mm	BR7ES	08-07041	---
14 mm	BR9ES	08-07042	---
14 mm	BR7EIX	08-07045	---
14 mm	BR9EIX	08-07046	---
12mm	DP9EA-9	15-05219	---
14mm	IK24	15-05204	---

SPARK PLUG HOLE PROTECTIVE CAPS

#9721 Spark Plug Hole Caps. Seal your Spark plug hole openings with these inexpensive tapered fit plastic caps. Prevent debris from accidentally entering ports and creating damage or mischief. Ideal for sealing for winter storage, preventing moisture from corroding internal engine parts. Also can be used to seal ports for leak testing, an important procedure that locates potential air leaks before they cause costly engine damage. Tapered fit provides positive seal for either vacuum or pressure testing, Tapers from 0.482" to 0.526".....P/N 15-06003 ..... ---

LSE BLACK TWIN TOWER IGNITION COIL

Ignition coils are typically mounted on the top center of the engine. They can also be mounted on the motor mount tubes using Adel clamps or on the firewall to a piece of angle aluminum. Ignition coils should be mounted so that spark plug lead length will be kept to a minimum for maximum spark energy and minimum noise. It is important that each coil connects to opposing cylinders, i.e. one coil fires cylinders 1 and 2 and the other coil fires 3 and 4.....P/N 08-17193 ..... ---

AN4062-1 DEHYDRATOR PLUGS 18MM

These plugs are used to prevent rust and corrosion in engines while in storage. Contain silica gel which turns from blue to pink when moisture is absorbed. Reusable & refillable. The pink silica gel may be reactivated (after removing from reservoir) by heating for 16 hours at 250°F.

18MM .....P/N AN4062-1 ..... **--- ea**

SILICA GEL. Indicating type, for refilling plugs.

1/4 Lb. Bag.....P/N 07-00731 ..... ---
1 Lb. Can .....P/N 07-03400 ..... ---

DEHYDRATOR PLUG 18MM MS2721501 NON-REFILLABLE

Dehydrator Plug 18mm MS2721501 Non-Refillable - Single Unit.

Single Unit .....P/N 08-17377-1 ..... ---
Can of 20 .....P/N 08-17377 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SPARK PLUG PARTS

TEMPEST AVIATION SPARK PLUGS

Made in USA. Copper, co-extruded inside a nickel alloy sleeve ensures outstanding heat and electrical conductivity while the nickel sleeve offers high resistance to corrosive combustion gases. High Alumina Ceramic Insulator. "V" tip focuses heat to reduce fouling and enhance heat range control. Proprietary Glass Center Seal, and resistor design, eliminating resistor degradation causing misfire. Environmentally preferable electrolytic nickel provides outstanding durable finish, superior corrosion protection, and extreme wear resistance. Aviation grade nickel electrode design focuses on minimizing sparking voltage requirements. Harness Wire Contact is a smooth, uninterrupted, oxide treated spring contact surface.

MASSIVE ELECTRODE

Model	Part No.	Price
UREM38E	08-00046	---
URHM38E	08-00047	---
UREM40E	08-00048	---
URHM40E	08-00049	---
URHB32E	08-00245	---
UREB37E	08-00246	---
URHB37E	08-00247	---
UREM37BY	08-00248	---

FINE WIRE

Model	Part No.	Price
URHB32S	08-07213	---
URHB36S	08-01230	---
URHM38S	08-01232	---
UREB36S	07-26932	---
UREM38S	08-01234	---

BOXES OF 12 SPARK PLUGS ARE AVAILABLE FOR EACH MODEL. CALL OR VISIT OUR WEBSITE FOR PRICING.

CHAMPION SPARK PLUG ANTI-SEIZE

Apply sparingly to second and third threads. Do not contact electrodes as it could short out the plug. Do not apply to shielding barrel threads. Unbreakable 4oz. bottle with applicator brush top.....P/N 2612..... ---

TEMPEST SPARK PLUG THREAD LUBRICANT & ANTI-SEIZE COMPOUND

Comes packaged with a brush that applies the lubricant to the threads with a smooth even flow, doesn't drip, and more importantly, won't inadvertently run down on the firing end of the spark plug potentially causing an environment conducive to fouling or even pre-ignition. It stays where you put it and covers

TEMPEST COPPER SPARK PLUG GASKET

AN4027-1, 18MM P/N M673. These are the AN4027-1 18mm copper spark plug gaskets. Model U674. Made of solid copper to current aircraft standards.
Box of 100.....P/N 07-01798..... ---

COPPER SPARK PLUG GASKETS

Made of solid copper to current aircraft standards. Available in 14 MM and 18 MM sizes.
AN4027-2, 14MM.....P/N 07-01261..... --- ea
AN4027-1, 18MM.....P/N 07-00877..... --- ea

CHAMPION M674 SPARK PLUG GASKET

M674 - Gasket: Spark Plug, 18mm. Made of solid copper to current aircraft standards. Box of 100. 1 in. X 1 in. X 0.063 in.....P/N 07-03425.....

SURPLUS SPARK PLUG BARGAINS

New surplus 18MM longreach, shielded, 3/4-20 barrel. FAA approved for Continental IO-470, GIO-470, TSIO-470, IO-520 & GTSIO-520. Not for 0-470, which uses short reach plugs.
P/N 08-03699..... --- ea

SEE TOOL SECTION FOR FULL LINE OF CHAMPION SPARK PLUG TOOLS

SPARK PLUG TYPE DESIGNATION SYSTEM

In the early 1900s, small planes flew with single ignition systems powered by adapted automobile engines using Champion-brand automotive spark plugs. By the 1920s, the company had devel ped innovative spark plugs designed specifically for the aviation industry. Champion Aerospace designs and manufactures Champion-brand piston-engine ignition components for both OEM and aftermarket for general aviation aircraft applications. Every spark plug manufactured has built-in design advantages that assure longer life and greater reliability. A typical spark plug number with symbol explanation.

A TYPICAL SPARK PLUG NUMBER WITH SYMBOL EXPLANATION

R — Push-wire—90° to Center

R H B 37 E
① ② ③ ④ ⑤

1. Resistor	None--No Resistor	R--Mil-Spec. Resistor-Erosion protection
2. Barrel Style	None -- Unshielded	E -- Shielded 5/8"-24 Thread
	H -- Shielded 3/4"-20 Thread (All Weather Plug)	
3. Mounting Thread	**Reach**	**Hex Size**
B - 18 mm	13/16" (2.06 cm)	7/8" (2.22 cm)
M- 18 mm	1/2" (1.27 cm)	7/8" (2.22 cm)
J - 14 mm	3/8" (.095 cm)	13/16" (2.06 cm)
L - 14 mm	1/2" (1.27 cm)	13/16" (2.06 cm)
U - 18 mm	1-1/8" (2.85 cm)	7/8" (2.22 cm)
N - 14 mm	3/4" (1.90 cm)	13/16" (2.06 cm)
4. Heat Rating Position	High number--Hot (50)	Low number--cold (26)
5. Electrode Design None - Conventional Single	E - Two Electrode Massive S - Single Electrode (Iridium) R - Push-wire - 90° to Center P - Two Electrode (Platinum)	N - Four Electrode Massive B - Twin Electrodes(Nickel) Y - Projected Core Nose W - Two Electrode (Iridium)

CHAMPION SPARK PLUGS

SHIELDED – MASSIVE ELECTRODES			
5/8-24*	**Price**	**3/4-20***	**Price**
REJ38 (14MM)	---	RHM38E	---
REL37B (14MM)	---	RHM40E	---
REB37E	---	RHU27E	---
REM37BY	---	RHB32E	---
REM38E	---		
REM40E	---		
REB32E	---		
SHIELDED – IRIDIUM ELECTRODES**			
5/8-24*	**Price**	**3/4-20***	**Price**
REM38S	---	RHB32S	---
REB-36S	---	RHB36S	---
		RHM38S	---
UNSHIELDED			
5/8-24*	**Price**	**3/4-20***	**Price**
M41E (18MM)	---		

* Shielded barrel thread size. Check barrel size - 5/8x24 or 3/4x20 threads before ordering and select proper plug number.

SEE PAGE ON THE RIGHT FOR SPARKPLUG APPLICATION TABLE.

**The "Iridium S" sparkplugs replace the Platinum and "W" Iridium types. Increased bore diameter improves scavenging action. Greater clearance volume can accept more combustion deposits. Single Iridium electrode offers greater resistance to lead attack. Easy to clean Easy to gap

CHAMPION RVL38S SPARK PLUGS

Used on M14 YAK.P/N 08-06280..... ---

NOTE: Spark plugs are shipped in factory sealed plastic cases. Opened spark plug cases make the spark plugs non-returnable. Please do not open any spark plug until you are sure you have received the correct spark plugs for your application.

HELI-COIL INSERTS

18mm long Heli-Coil aviation grade spark plug inserts.
Heli-coil Insert 18mm X 13/16 "..... P/N 08-13858..... ---
Heli-coil Insert 18mm X 1/2 "..... P/N 08-13859..... ---

SILICONE HEAT TRANSFER COMPOUND

A thermally conductive grease based on zinc oxide and silicone oil that provides good thermal conductivity across a wide operating temperature range. Non-conductive, non-capacitive, and non-corrosive, it is used to improve the thermal conductivity between irregular metal surfaces. It is widely used to improve heat flow between heat sinks and heat generating electronic components such as CPU's, GPU's, and power components. Silicone thermal greases are preferred in high operating temperature applications where silicone migration is not a concern.
4 Gram / 1.7 mL Pouch.....P/N 09-05316..... ---

EP

TEMPEST AVIATION SPARK PLUG APPLICATION CHART

EP

FAA-PMA Approved Engines Applications	Thread	Massive Electrode						Fine-Wire Electrode			
		5/8"-24			3/4"-20			5/8"-24	3/4"-20		
		EAREM37HE	UREB37E	UREM37BY	UREM38E	UREM40E	URHB32E	URHB37E	URHM38E	URHM40E	UREB36S	UREM38S	URHB32S	URHB36S	URHM38S	EARHM38SE
Continental Motors																
A-65, A-75, C-75, C-85, C-90, C115, C-125 Series				•	•				•		•				•	
C-145 Series				•	•	•			•	•	•				•	
E165, E-185, E225 Series				•		•				•	•				•	
O-200-A, B, C, D				•		•				•	•			•	•	
IO-240-A, B					•				•		•				•	
O-300-A, B, C, D, E				•	•	•			•	•	•				•	
GO-300-A, B, C, D, E, F				•	•	•			•	•	•				•	
IO-346-A, B					•	•			•	•	•				•	
IO-360-A, AB, C, CB, D, DB, E, ES, G, GB, H HB, J, JB, K, KB					•				•		•				•	
IO-360-B						•				•	•				•	
TSIO-360-A, AB, B, BB, C, CB, D, DB, E, EB, F, FB, G, GB, H, HB, JB, K, KB, LB, MB, NB, PB, RB, SB					•				•		•				•	
LTSIO-360-E, EB, K, KB, RB					•				•		•				•	
O-470-2					•				•		•				•	
O-470-4, 11, 11B, 11B-C1, 11-C1, 13, 13A, 15						•				•	•				•	
O-470-B, G, H, M, N, P, R, S				•	•				•	•	•				•	
O-470-B-C1, G-C1, K-C1, L-C1, M-C1					•				•							
O-470-A, E, J, K, L,					•				•		•				•	
O-470-T, U							•						•	•		
IO-470-A, C, G, P, R, T				•	•				•	•	•				•	
IO-470-D, E, F, H, L, LO, M, N, S, U, V, VO							•						•	•		
IO-470-J, K					•				•		•				•	
L/IO-470-A				•	•				•	•	•				•	
TSIO-470-B, C, D							•						•	•		
IO-520 Series							•									
IO-520-A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB, N, NB							•						•	•		
LIO-520 Series							•									
TSIO-520-A, AE, AF, B, BB, BE, C, CE, D, DB, E, EB, F, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, U, UB, V, VB, WB							•						•	•		
LTSIO-520-A, AE, B, BE, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, U, UB, VB, WB							•						•	•		
GTSIO-520-C, D, E, F, G, H, K, L, M, N							•						•	•		
IO-550-A, B, C, D, E, F, G, L, N, P, R							•						•	•		
IOF-550-B, C, D, E, F, L, N, P, R													•			
TSIO-550-A, B, C, E							•						•	•		
R9-A			•					•		•		•			•	
R-670			•													
R-670-3, -4, -8, -11, -11A												•			•	
W-670			•	•					•		•				•	
ECI (Engine components Int'l) TITAN® Engines																
OX-320 series					•	•			•	•	•				•	
IOX-320 series					•	•			•	•	•				•	
OX-340 series					•	•			•	•	•				•	
IOX-340 series					•	•			•	•	•				•	
OX-360 series					•	•			•	•	•				•	
IOX-360 series					•	•			•	•	•				•	
OX-370 series					•	•			•	•	•					
IOX-370 series					•	•			•	•	•				•	
O-340 series (ASTM certified)					•	•			•	•	•				•	
IO-340 series (ASTM certified)					•	•			•	•	•				•	
Electroair (Electronic Ignition)																
ES41000, ES41000IC, ES41000T		•														•
Franklin/PZI/WSK																
2A-120-A, B, C, D							•								•	
4A-235-B, B1, B2, B3, B4, B6							•				•				•	
6AS-335-A, B			•				•	•			•				•	
6V-335-A1A, A1B			•				•	•			•				•	
6VS-335-A, B, A1, B1			•				•	•			•				•	
6A-350-C1, C1A, C2, C2A, C1L, C1R, D, D1, D1A, D1B							•				•			•	•	
6AS-350-A, A1							•				•				•	
6V-350-A, B							•				•				•	
PZL-3S, 3S 2nd Series, 3SR			•					•			•				•	
ASZ-62IR-16, M18			•					•			•				•	
Jacobs																
L-4, L-5, L-6 Series					•				•		•				•	
4M, 4MA, 4MA7, 4MB, 5M, 5MB, 6M, 6MA, 6MBA					•						•				•	
R-755-A1, A2, A2M, A2M1, B1, B2, B2M, E					•				•							
R-755S, SM				•	•			•								
R-755-9					•						•				•	
R-915-3, 5, 7											•				•	
Ken Royce																
Ken Royce 7F, 7G					•				•							
Ken Royce 90 5G					•				•							
Kinner																
B-5, B-54, C-5, K-5						•				•						
Kinner R-5, R-5 Series 2, R-55, R-56						•				•						
lambert																
B-5, B-54, C-5, K-5						•				•						
leBlond																
LeBlond 70 5DE, 5E						•				•						
LeBlond 85 5F, 5DF						•				•						
LeBlond 90 5F						•				•						
LeBlond 110 7DF						•				•						
Menasco																
Buccaneer A-6, B-6, B6S						•				•						
Super Buccaneer C6S-4						•				•						
Pirate A-4, B-4, C4, D4, M-50						•				•						
Super Pirate D-4-87						•				•						
P. Ponk																
O-470-50 Super Eagle							•						•			
Pratt & Whitney																
R-985 Wasp Jr. Series				•	•					•	•					•
R-1340 Wasp Series (Short Reach)				•	•					•	•					•
R-1340 Wasp Series (Long Reach)			•				•	•								
SR-1340-E					•					•						
R-1800 Twin Wasp E1			•				•	•								
R-1830 Twin Wasp Series			•				•	•			•		•	•		
R-2000 Twin Wasp Series			•				•	•			•					
Twin Wasp Series SC-G, SC3-G, S1C-G, S1C3-G, S3C4-G, S4C4-G			•				•	•			•		•	•		
R-2800 Double Wasp A, B, Series			•				•	•			•		•	•		
Double Wasp Series CA3, CA5, CA15, CA17, CA18, CA19, R2800-97, CB3, CB4, CB16, CB17			•				•	•			•		•	•		
R-4630 Wasp Major Series			•				•	•			•			•		
Ranger																
Ranger 6-390, 6-410, 6-440 Series					•				•		•				•	
Superior Air Parts																
O-360-A1A1, A1A2, A2A1, A2A2, A3A1, A3A2, A4A1, A4A2, A5A1, A5A2, A6A1, A6A2, B1A1, B1A2, B2A1, B2A2, B3A1, B3A2, B4A1, B4A2, B5A1, B5A2, B6A1, B6A2, C1A1, C1A2, C2A1, C2A2, C3A1, C3A2, C4A1, C4A2, C5A1, C5A2, C6A1, C6A2, D1A1, D1A2, D2A1, D2A2, D3A1, D3A2, D4A1, D4A2, D5A1, D5A2, D6A1, D6A2, E1A1, E1A2, E2A1, E2A2, E3A1, E3A2, E4A1, E4A2, E5A1, E5A2, E6A1, E6A2, E5A1, E5A2, E6A1, E6A2					•											

Engines	Thread	Massive Electrode						Fine-Wire Electrode			
		5/8"-24			3/4"-20			5/8"-24	3/4"-20		
		EAREM37HE	UREB37E	UREM37BY	UREM38E	UREM40E	URHB32E	URHB37E	URHM38E	URHM40E	UREB36S	UREM38S	URHB32S	URHB36S	URHM38S	EARHM38SE
O-360-A1A1, A1A2, A2A1, A2A2, A3A1, A3A2, A4A1, A4A2, A5A1, A5A2, A6A1, A6A2, B1A1, B1A2, B2A1, B2A2, B3A1, B3A2, B4A1, B4A2, B5A1, B5A2, B6A1, B6A2, C1A1, C1A2, C2A1, C2A2, C3A1, C3A2, C4A1, C4A2, C5A1, C5A2, C6A1, C6A2, D1A1, D1A2, D2A1, D2A2, D3A1, D3A2, D4A1, D4A2, D5A1, D5A2, D6A1, D6A2, E1A1, E1A2, E2A1, E2A2, E3A1, E3A2, E4A1, E4A2, E5A1, E5A2, E6A1, E6A2					•											
Textron Lycoming																
O-235-C, E, H, K, L, M, N, P Series				•	•				•	•	•				•	
O-235-F, G, J Series					•				•	•	•				•	
O-290 Series				•	•				•	•	•				•	
O-320-A, B, C, D, E, H Series				•	•				•	•	•				•	
O-320-F Series					•				•	•	•					
IO-320 A, B, C, D, E, Series				•	•				•	•	•				•	
IO-320-F Series				•	•				•	•	•				•	
IO-320-C1A, F1A (Long Reach)			•					•			•					
IO-320-C1B (Long Reach)			•					•								
AIO-320-A, B, C series				•	•				•	•	•				•	
LIO-320-B Series (Short Reach)				•	•				•	•	•				•	
LIO-320-C1A (Long Reach)			•					•			•				•	
AEIO-320 A, B, C, D, E Series				•	•				•	•	•				•	
O-340-A, B Series					•				•	•	•				•	
O-360-A, B, C, D, F, J Series				•	•				•	•	•				•	
O-360-E Series					•				•	•	•				•	
HO-360-A, B, C Series				•	•				•	•	•				•	
IO-360-A, B, C, D, E, F, J, K, L, M Series				•	•				•	•	•				•	
IO-360-A1B6, C1A, C1F, F1A Series (Long Reach)			•						•			•				
LO-360-A, C, E Series				•	•				•	•	•				•	
TO-360-A, C, E, F Series			•					•	•		•	•	•			
TO-360-C1A6D, E1A6D, F1A6D Series (Long Reach)				•	•				•		•	•	•			
VO-360-A, B Series				•	•				•	•	•				•	
AIO-360-A, B Series				•	•				•		•				•	
HIO-360-A, B, G Series				•	•				•	•	•				•	
HIO-360 -C, D Series				•					•		•				•	
HIO-360-E1AD, E1BD, F1AD Series (Long Reach)					•				•			•	•			
IVO-360-A Series			•						•		•		•			
LIO-360-C, M Series				•	•				•		•				•	
LTO-360-A1A6D, E1A6D			•						•		•		•			
TIO-360-A, C Series			•						•		•		•			
AEIO-360-A, B, C, H Series				•	•				•	•	•				•	
AEIO-360-A Series (Long Reach)			•						•		•				•	
LHIO-360-C Series				•	•				•		•					
LHIO-360-F1AD					•				•				•	•		
O-435-A, C, K Series				•	•				•	•	•				•	
O-435-B Series											•				•	
O-435-A1A (Long Reach)									•	•						
O-435-6, 6A													•			
O-435-23, 23A, 23B, 23C, 25, 25A			•						•	•		•		•	•	
GO-435-A Series					•					•		•			•	
GO-435-C, D, Series						•				•		•			•	
GO-435-K Series						•				•						
VO-435-A Series					•	•				•		•			•	
VO-435-A, B Series (Long Reach)			•						•	•		•		•	•	
TVO-435-A Series (Short Reach)					•					•		•			•	
TVO-435-A, B, C, D, E, F, G Series (Long Reach)			•						•	•		•		•	•	
O-480-1, 3						•				•		•		•	•	
GO-480-B, D, F Series					•	•				•	•				•	
GO-480-C, G Series						•				•		•			•	
GO-480-G1, G2 Series (Long Reach)			•						•	•		•		•	•	
GO-480-E1A6												•				
GSO-480-A, B, D, F Series (Short Reach)					•	•				•		•			•	
GSO-480-A, B Series (Long Reach)			•						•			•				
IGO-480-A Series (Long Reach)			•						•	•		•		•	•	
IGSO-480-A Series (Short Reach)					•	•				•		•			•	
IGSO-480-A Series (Long Reach)			•						•	•		•		•	•	
O-540-A, B, D, E, F, G, H, J Series					•	•				•		•			•	
O-540-L3C5D, M1B5D Series (Long Reach)			•						•			•			•	
IO-540-A, AB, AE, B, C, D, E, G, J, K, L, M, N, P, R, S, T, U, V, W, (Short Reach)					•	•				•		•			•	
IO-540-AF (Short Reach)					•	•				•						
IO-540-AA, AC, AE, E, G, J, K, M, N, P, R, S, U (Long Reach)						•				•					•	•
IO-540-E1A5, E1B5, E1C5 (Long Reach)			•						•	•					•	•
IO-540-E1A5, E1B5, E1C5, J4A5, K1A5, K1A5D, K1B5, K1B5D, K1C5, K1D5, K1E5, K1E5D, K1F5, K1F5D, K1G5, KIG5D, K1H5, K1J5, K1J5D, K1K5, K1K5D, K2A5, P1A5, R1A5 (Long Reach)					•	•				•		•			•	•
VO-540-A, B, C Series (Short Reach)				•						•		•			•	
VO-540-A, B, C Series (Long Reach)			•							•		•			•	
TIO-540-A, AA, AB, AE, AF, AG, AH, AJ, AK, C, E, F, G, H, J, K, N, R, S, T, U, V, W Series					•	•				•					•	•
LTIO-540-F, J, N, R Series					•	•				•		•			•	•
LTIO-540-U, V Series					•	•				•					•	•
AEIO-540-D, L Series (Short Reach)				•	•					•		•			•	
AEIO-540-L Series (Long Reach)			•						•	•					•	•
IGO-540-A, B, Series			•						•	•					•	•
IVO-540-A Series			•						•			•		•		
TIVO-540-A Series									•	•		•			•	•
IGSO-540-A, B Series									•	•					•	•
TIO-541-A, E Series			•						•	•		•			•	•
TIGO-541-A, E Series			•						•	•		•			•	•
IO-580 Series (Short Reach)				•												
IO-580 Series (Long Reach)			•						•						•	
AEIO-580 Series (Short Reach)				•												
AEIO-580 Series (Long Reach)			•						•						•	
R-680 Series					•					•		•				•
IO-720-A, B, C, D Series (Short Reach)				•						•		•				•
IO-720-A, B, C, D Series (Long Reach)			•						•	•		•			•	•
Warner																
Scarab Series 28, 29, 30, 40, 50					•					•		•				•
Scarab Jr. Series 40, 50					•					•		•				•
Super Scarab Series 40, 50, 50A					•					•		•				•
Super Scarab 165, A, B, D, 185, 185J, 185K					•					•		•				•
Wright/ curtis Wright																
Cyclone Double Row Series			•						•							
Cyclone R-1300 Series			•						•		•		•			
Cyclone R-1820 Series (Except F & HE)			•						•		•		•			
Cyclone R-1820-84 (C9HE) Series									•				•			
Cyclone R-2600 Series			•						•		•		•			
Cyclone R-3350-C18BA, C18BD			•						•		•		•			
GR-540 Series					•					•						
GR-975 Series (Short Reach)					•					•						
GR-975C Series (Long Reach)			•						•							
R-540 Series					•					•						
R-975 Series (Short Reach)					•					•						
R-975 Series (Long Reach)			•						•							
Whirlwind J-5 (Short Reach)					•					•						
Whirlwind J-5 (Long Reach)			•						•							
Whirlwind R-760 Series (Long Reach)			•						•							
Whirlwind R-760 Series - 1/2"reach cyl.					•					•						

Not a complete list. To find the right Tempest Aviation Spark Plugs for your engine, see our complete application guide & engine cross reference at http://tempestplus.com

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SPARK PLUG TOOLS

AVIATION SPARK PLUG SERVICE UNIT

For Cleaning: Two flexible rubber adapters handle 14 and 18mm plug types. For Testing: Steel adapters of 14 and 18 mm are standard equipment and conveniently stored on the top of the cleaner for ready availability. Molded of rugged A.B.S. plastic which is durable, oil resistant and easy to clean. An aluminum-base frame is included, which permits easy mounting to a work bench and quick removal. The solid state ignition system pro-duces a stable ignition test voltage providing greater accuracy and reliability. Its lack of moving parts eliminates the major cause of tester failures. Cleaning is by a dry-abrasive air blast, which quickly and effectively removes conductive deposits. All compressed air for both cleaning and testing passes through a "built-in" automatic water trap to stop harmful air line moisture.

110V .....P/N 12-00794 ..... ---
220V .....P/N 12-00902 ..... ---
110V Replacement Coil.....P/N 12-03773 ..... ---

MODEL 2600A VIBRATOR/CLEANER

Champion now makes it easier than ever to clean heavily lead-fouled spark plugs with this new, improved Vibrator/Cleaner. Each unit is shipped with all accessories required for cleaning fine-wire and 2-prong massive electrode aviation spark plugs. This unit features quick-change cleaning head assemblies, easy and inexpensive replacement of single cutter blades, improved heavy duty top-mounted switch and improved vibrator motor for faster cleaning and maximum durability.

Model 2600A .....P/N 12-15600 ..... ---
Full Cutter Single Blade (CT-435F).....P/N 12-01147 ..... ---
Damper For Vibrator Cleaner.....P/N 12-04953 ..... ---

CT-415AV GAP SETTING TOOL

A low-cost efficient gap setting tool for closing gaps on massive electrode type aviation spark plugs. May be used as a hand tool, mounted on a bench or held in a vise. Furnished with one adapter for 18mm spark plugs. (P/N GT-204) and one CT-450 gap gauge. Wt. 1-1/2 lbs., 7-1/2" high.....P/N 12-00796 ..... ---

CT-450 RETRACTABLE GAP GAUGE

High-impact red plastic case contains four sets of accurate, retractable "go" and "no go" wire gauges: 2 sets .015-.019 (.016 Nom.) 2 sets .018-.022 (.019 Nom.) Length: 3-1/2". Wt. 1-1/4 oz.....P/N 12-00797 ..... ---

CT-446 SPARK PLUG TRAY

Steel tray holds up to 12 plugs. Speeds handling of used or new plugs. Holes numbered to correspond with engine cylinders. Protects against shielding barrel contamination. Dims: 5"H x 8"L x 3.5"W. Wt. 1 lb.

(12 plug tray)...P/N 12-00795 ..... ---
(18 plug tray)...P/N 12-00162 ..... ---

NO. 91893 ABRASIVE COMPOUND

For use in CT-475AV Dry Abrasive Cleaner/Tester. Contains 1 full charge (15oz.). Note: This main item no longer ships with a tip unless it is ordered separately.

P/N 91893. ..... ---

622 CHAMPION RUBBER TIP

P/N 12-94023.....---

LEAD-MASTER WRENCH SETS

Reduce time to remove and install spark-plug ignition leads. Permit shortarc turning due to 12-point grip head.

CT911 3/4" "T" Handle Box Wrench .....P/N 12-00799 ..... ---
CT912 7/8" "T" Handle Box Wrench .....P/N 12-00801 ..... ---
3/4" & 7/8" Open End Box.....P/N 12-00802 ..... ---

CT906 CHAMPION PLU MASTER RATCHET WRENCH

CT-906 Plug Master Ratchet Wrench. Designed especially to make spark plug removal and installation easier and faster. Flex-handle allows 30-degree angle travel in either direction. Extra fine reversible ratchet action requires only 6-degree travel for next bit. Popular 3/8 in./0.95cm square drive fits Model CT-907 and other standard sockets. Knurled handle, rust-resistant chrome finish. .....P/N 12-04957 ..... ---

CT492 CHAMPION IGNITER EROSION GAUGE

A special tool designed specifically to measure the erosion-wear of Champion AA series igniters. Calibrated in colored scale segments to determine the extent of erosion of the undercut area of the steel shell, not easily visible to the eye. Measuring tips shaped to reach into the undercut, true-wear area. Instructions for use included in special plastic box.

P/N 12-04954 ..... ---

CT-494 CHAMPION EROSION GAUGE

CT-494 Igniter Erosion Gauge. The CT-494 accurately determines wear on 10 different Champion surface gap igniters, insuring maximum igniter life without exceeding safe wear limitations.

P/N 12-04929 ..... ---

CHAMPION CT-482 SPARK PLUG EROSION GAUGE

Champion CT-482 spark plug erosion gauge provides an easy, accurate method of determining whether your plugs have reached their maximum wear limit. Calibrated to reject plugs after their electrodes have eroded to at least one-half their original thickness.....P/N 12-00791 ..... ---

CT449 CHAMPION THREAD CLEAN OUT TOOL

CT-449 Thread Clean-Out Tool. For cleaning aircraft engine spark plug 18mm bushings to assure correct installation of new or overhauled spark plugs. Regular 7/8"/2.22cm hex fits spark plug sockets. Precision ground threads, three deep flutes retain carbon debris. Packed individually with instructions for use .....P/N 12-04950 ..... ---

52243 CHAMPION CRIMP TOOL

A special tool used to crimp turbine ignition lead contacts to the unshielded center wire.....P/N 12-04951 ..... ---

MODEL 2500A GAP SETTING TOOL

A precision gap-setting tool for all massive-electrode Champion spark plugs. Permits simultaneous adjustment of two opposite prongs without removing the spacing gauge. Designed for permanent installation on bench or heavy wooden board.

P/N 12-15500 ..... ---

CT-457 FINE WIRE GAP SETTING TOOL

Designed exclusively for adjusting fine wire electrode spark plug gaps. Slot fits iridium ground electrodes for quick, safe adjustment. Size: 2-1/4" x 2" x 1/4" (5.7 x 5.0 x 0.63 cm) Weight: 1/2 oz. (14 g). Packed individually.....P/N 12-00798 ..... ---

CHAMPION 52241 HOOK

Champion 52241 Hook.....P/N 12-04925 ..... ---

CHAMPION CT466 GAUGE

Champion CT466 Gage. .....P/N 12-04924 ..... ---

SEE OUR WEBSITE FOR REPLACEMENT PARTS.

EP

SPARK PLUG TOOLS

TEMPEST AA446 SPARK PLUG TRAY

Constructed of high quality metal protecting the spark plugs from damage. Tray design is sturdy and balanced. Rubber feet on the bottom of the tray help keep the tray in place. Numbered spark plug slots.

P/N 07-02510 ..... ---

TEMPEST SPARK PLUG RESISTANCE TESTER

Tempest has developed an easy-to-use tester that makes it very efficient for IA/AP's to test the resistance in all aviation spark plugs. The IA/AP simply places the spark plug, barrel side down over the contact post and touches the other lead end to the firing end of the center electrode. If the light is green, the spark plug resistance is below 4kÙ (thousand ohms). If both the green and red lights are on, then the plug is between 4 - 5kÙ. This is acceptable for serviceable plugs. If the red light is on alone, this indicates a resistance value in excess of 5kÙ and the plug must be discarded and replaced.....P/N 08-07462 ..... ---

ATS DELUXE SPARK PLUG KIT

Kit Includes: • SPCT100A Spark Plug Cleaner Tester Unit (120V/240V) • ATS415 Bench Gapping Tool with Gap Gauge • #12 Spark Plug Cleaner • PA01 Spark Plug Vibrator Cleaner to remove lead deposits • Spark Plug Tray • 10X Inspection Magnifier • A 4oz Bottle of ATS Anti-Seize Lubricant • 100ea Copper Gaskets • Spark Plug Thread Chaser • ATS950 Magnetic Spark Plug Socket.....P/N 12-02410 ..... ---

ATS VIBRATOR CLEANER PA01

It will clean heavy deposits in and around the electrodes with absolutely no risk of damage to the plug. 1 lbs (0.5Kg) shipping weight.

P/N 12-00714 ..... ---

SPARK PLUG EROSION GAUGE

Makes it easy to determine if you plugs have reached the end of their useful life. Simply gap your plug per manufacturer's recommentation and then check to see if the electrodes fit through the hole of the gauge. If they enter the hole, then your plug is too worn and must be replaced.

P/N 12-03392 ..... ---

ATS SPARK PLUG GAPPER

Sure-Gap is designed for use on all massive electrode aircraft spark plugs. Saves time and money, eliminates guessing of plug gap, prolongs plug life and ensures peak performance. 18mm. 1lbs shipping weight.

P/N 12-01682 ..... ---

ATS SPARK PLUG GAP GAUGE

Convenient Gap Gauge for all Champion and Tempest massive electrode spark plugs. Slider design keep gauge wires stowed away when not in use.

• Retractable slider design
• Includes wires for .015", .019", .018", and .022"
• Works with all Champion and Tempest Massive Electrode Spark Plugs
• Replacement Wire Gauges are available.

1lbs shipping weight .....P/N 12-01692 ..... ---

ATS SPARK PLUG GAPPER & GAUGE 415K

A low-cost efficent gap setting tool for closing gaps on massive-electrode Aviation Spark Plugs. Great design allows it to clamp on to your workbench for easy gapping. **Features**: • Manufacturued from 4160 Tool Grade Steel • CNC Machined surfaces for exact alignment • Includes ATS450 Feeler Gauge • Clamps to workbench for easy one-handed operation • Compatible with all Champion, and AutoLite Massive Electrode Spark Plugs • 2lbs shipping weight.....P/N 12-01691 ..... ---

ATS SPARK PLUG THREAD CHASER

Chaser cleans threads in spark plug hole of dirt, carbon build-up, and metal particles. Double ended for both 14mm and 18mm threads. Neoprene band on hex drive holds tool securely in any 13/16" deep-well spark plug socket. 1lbs shipping weight.....P/N 12-01683 ..... ---

ATS MAGNETIC SPARK PLUG SOCKET

The new Spark Plug Socket features a thin-walled design to get into to the tightest confines. Magnetic interior guarantees that you won't accidentally drop the plug during installation or removal. Works with all Champion and Tempest Aviation Spark Plugs. Works with all Champion and Tempest Aviation massive electrode Spark Plugs. Thin-Walled design to get to the tightly spaced plugs. Magnetic interior holds spark plugs and keeps them from falling out. 7/8" Socket. 3/8" Drive. 3-1/2" Overall Length. Made of Chrome Vanadium Steel. 1lbs shipping weight.....P/N 12-01693 ..... ---

AVIATION SPARK PLUG SOCKET

Aviation spark plugs have special needs; using a non-standard 7/8" hex, and exhaust manifolds can get in the way of wrench access. A thin-wall socket is necessary for many applications. To ensure compatibility with all makes of plugs including Champion and Tempest, a deep well is called for. Developed specifically for general aviation aircraft. Compatible with Tempest and Champion Spark Plugs. Thin wall for fit into narrow cavities. Combined built-in 1" hex and 3/8" drive permits added flexibility in manifold access. Lifetime guaranteed and professional quality .....P/N 12-03771 ..... ---

ATS SPARK PLUG CLEANER

Cleans any size plug without changing grommet. Has 2-way valve (blast or air) and comes complete with abrasive powder. Ready to use.

P/N 12-01684 ..... ---

Replacement Abrasive X-Fine 600 Grit

P/N 12-04897 ..... ---

AUTOLITE SPARK PLUG TOOLS

SPARK PLUG DEEP SOCKETS

T-558 1/2" drive w/o magnet

P/N 12-00712 ..... ---

HEAVY DUTY SPARK PLUG GAPPER KIT

A complete spark plug gapping solution for field or bench use includes the Heavy Duty Spark Plug Gapping Tool to accurately set your spark plug gaps to within 0.001". You also get a set of wire feeler gauges to verify gap size. If you should happen to accidentally over-gap the plug, then the included Gap Expansion Tool will get you back on track. And finally, included in the Kit is an Electrode Erosion Gauge to make sure that your gapped plugs are still in serviceable condition.....P/N 12-03359 ..... ---

HEAVY DUTY SPARK PLUG GAPPER

This professional heavy-duty spark plug gap setting tool is completely portable for field use, yet precise enough to set gaps to within 0.001". The precision screw drive with its comfortable knurled knob gaps any type of Massive Electrode Aviation Spark Plug reliably and without any danger of damaging the spark plug. Simply screw the spark plug into the base of the tool and turn the knob to the required gap width. Very easy to use. Sets gaps to within 0.001". Precision CNC Machined from 4160 Tool Grade Steel. Attractive Nickel-Cadmium finish resists rusting. Knurled palm grip keep the tool from slipping in hands. Compatible with all Champion, and AutoLite Massive Electrode Spark Plugs.

Gapper.....P/N 12-03389 ..... ---
Gapper with Gauge .....P/N 12-03390 ..... ---

EP

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SPARK PLUG TOOLS

SPARK PLUG GAP EXPANSION TOOL

Expands the spark gap of any massive electrode aviation plug safely and efficently.

P/N 12-03391 ..... ---

UNIVERSAL SPARK PLUG GAP GAUGE

This gap gauge provides easy accurate spark plug adjustment. Features flanged edge for electrode bending and beveled round hole for opening gap. 1-1/2" diameter. Wt.: 0.8 oz. Scaled from .020" to .100". Pewter plating makes the inches more legible for user to read. Also available in metric scale (0.5 mm to 2.4 mm).Gap gauge (inches).....P/N 12-21375 ..... ---

SPARK PLUG VIBRATOR CLEANER

Anyone that cleans a lot of spark plugs knows that a spark plug vibrator cleaner is the only way to go to break up and clean out stubborn lead deposits. A spark plug abrasive cleaner is great for the finish cleaning, but it just won't take care of the lead deposits found down around the plug porcelain. Aircraft Spruce now offers an inexpensive way to professionally clean spark plugs. This 115V vibrator cleaner is small, light weight, easy to use. It is great for the pilot or mechanic that wants to carry one along — just in case. 90 day guarantee.

Cleaner.....P/N 12-21355 ..... **---/ea.**
Extra Cutter Blades .....P/N 12-01147 ..... **---/ea.**

SPARK PLUG CLEANER TESTER DUAL VOLTAGE

Works with both 120V and 220V sources, and has advanced circuitry to prevent thermal overload during heavy use. Uses a powerful blast of air and abrasive to thoroughly remove carbon deposits from plugs. Manufactured to the rigorous ISO 9002 standard and carries a full one-year warranty. **Specifications**: • Operating voltage: 115V or 220V AC Single-phase 50/60Hz • Dimensions: 19.3" (49cm) x 11" (28cm) x 10.4" (26cm) • Weight: 22.5 lbs (10.2kg) • Accessories included: 12mm, 14mm and 18mm spark plug adapters (2pcs each); 12mm, 14mm and 18mm cleaner gaskets (1 each); Adapter case (1pcs); Aviation Massive Electrode adapter plug (1pcs), Abrasive 1 lbs (900g).P/N 12-03184 .....

SCREEN CLEAN SPARK PLUG CLEANER

The Screen Clean tool works great for field cleaning of spark plugs. It is non-abrasive and can be used for several cleanings. Simple to use—just work the bi-fold edge through the gap with several strokes before setting the gap. Actually removes deposits blasting cannot reach.....P/N 12-15610 ..... ---

SPARK PLUG CADDY

Handy case holds (2) 14mm spark plugs. Small enough to fit into your pocket.

P/N 13-03869 ..... ---

SPARK PLUG WRENCH

Loosen or tighten your spark plugs with this handy tool.....P/N 13-03921 ..... ---

THREAD CLEANOUT TOOL

In servicing spark plugs, a common problem is carbon accumulation in the jug threads. Cleaning these threads regularly can save big money by preventing thread damage and the need to pull the jug and install thread inserts. This specially designed tool works very well to limit this problem. It provides maximum depth penetration and its unique spring action assures that there will be no enlargement of the existing thread pitch diameter.....P/N 12-17200 ..... ---

AIRCRAFT SPRUCE PLUG MAINTENANCE KIT

The Aircraft Spark Plug Maintenance Kit includes an aircraft spark plug tray, air-powered spark plug cleaner, feeler gauge, spark plug gap setting tool, aircraft spark plug socket, a set of 8 spark plug gaskets and a bottle of spark plug thread lubricant and anti-seize compound.

P/N 12-02250 ..... ---

PRECISE-GAP SPARK PLUG GAPPING TOOL

Precise Gap is a simple tool to gap two-, three- or four electrode 18 mm sparkplugs. Only 2" overall - comfortably handheld. Precision made of stainless steel. "T" handle adjusters move the ground electrodes closer to the center electrode until wire feeler identifies proper gap. Adjusters have fine thread with ball tips for precise movement. Don't buy an inferior imitation at a higher price!

P/N 12-11600 ..... ---

SPARK PLUG TRAY

This unique spark plug tray is quality made of PVC plastic. Each holding position has 18 mm thread so that plugs screw in for positive holding. This tray permits simultaneous inspection of either the electrode or barrel end of plugs, protects plugs from damage, and can be stored in any position. Optional carrying strap attaches to ends.

P/N 12-30185 ..... ---

PLUG-A-LONG SPARK PLUG TRAY

Holds 12 spark plugs each hole stamped with cylinder number also marked top and bottom so each plug can be identified easily, no mix-ups. Plugs can be serviced and returned back to where they were removed. a must for aircraft mechanics. Made from 18 gauge steel. Blue powder coat finish. Dimensions: W=4.0", L=8.0", H=2.6.

P/N 12-00974 ..... ---

RADIAL ENGINE SPARK PLUG HOLDER

18 plug holder is made out of steel. Powder coated federal yellow.

P/N 13-11617 ..... ---

FAP 18 HOLE SPARK PLUG TRAY

FAP-18 Aircraft Spark Plug Tray holds 18 plugs. Made from 18 gauge steel.

P/N 12-03809 ..... ---

SPARK PLUG WIRE

High-quality multi-strand copper core unshielded wire. 7mm diameter. For all Rotax® and most other engines. Replaces Rotax® Part No. 965-158.....P/N 11-04105 ..... **--- per ft.**

EP

FLYEFII DUAL SYSTEM32 ENGINE MANAGEMENT SYSTEM

The FlyEFii System32 Engine Management System Hardware is the first electronic engine management system ever designed specifically for the needs of experimental aviation. System32 is a state of the art, high speed, fully redundant system that represents the fulfillment of a ten year wish list of functionality. Dual 32 bit high speed ECUs and a sunlight readable graphical LCD Cockpit Controller combine for seamless power and efficiency in managing your engine's electronic fuel injection and electronic ignition functions. System32 will be offered in ignition only and full ignition + injection versions.

Specifications:

Engine Computer: • Advanced 32-bit microprocessor • EMI Filtering on all inputs • Operates down to 3.5 volts • Live Telemetry Interface • Integrated ADI Control • Up to 12 individually trimmable injector outputs • Onboard SD Card enables easy field updates, loading and saving map files, and data logging • Supports up to three O2 sensors • Integrated Boost Control • Lightning strike protection • Full 3D mapping of your ignition timing and fuel delivery • Compatible with standard left-right-both ignition switch.

Cockpit Controller: • Color LCD 1000-NIT sunlight readable display • Integral rolling tape Air Fuel Ratio display • Convenient full size SD card enables easy field updates, loading and saving map files, and data logging • Seamlessly interfaces with two ECUs • Effortless tuning – enter your engine size and compression ratio to instantly set fuel and ignition base maps • Fits in standard 3-1/8" aircraft instrument hole • Annunciator display for ECU power, fuel pump power, and two battery voltages • Multi-function knob and buttons provide intuitive access to functions.

Description	Part No.	Price
4 Cylinder Ignition Only	07-19978	---
4 Cylinder Ignition & Injection	07-19980	---
6 Cylinder Ignition Only	07-19979	---
6 Cylinder Ignition & Injection	07-19981	---

EFII THROTTLE BODY FLANGE ADAPTER KIT

The EFII Throttle Body Flange Adapter kit provides a convenient method to join a Van's Filtered Air Box or other flat surface interface to the EFII throttle body which is included in all EFII electronic fuel injection kits.

The EFII throttle body has a 3 1/4" rounded snout at its inlet. the TBFA kit includes a high quality silicone hose coupler which fits onto the EFII throttle body snout. The other end of the silicone coupler has a 3" ID which fits the included 3" aluminum flange adapter. Stainless steel hose clamps are included to complete the assembly of the TBFA.

The aluminum flange adapter can be riveted, bolted, welded or bonded to your air filter box or air inlet .....P/N 07-19987 ..... ---

EFII FUEL FLOW INTERFACE

Required when Dynon or Garmin engine monitors are used with the EFII electronic fuel injection system. The EFII electronic fuel injection system does not require a mechanical fuel flow sensor to display fuel flow on your engine monitor. However, you will need our Fuel Flow Interface to translate the EFII Fuel Flow signal to the FloScan type signal required by Dynon and Garmin engine monitors. Grand Rapids and MGL engine monitors do not require this interface. The Fuel Flow Interface enclosure measures approx. 2" x 1.37" x 0.75".

P/N 07-19988 ..... ---

EFII GROUND BUS

The EFII Ground Bus, part number GB-1, Is a great addition to a well designed wiring system. The GB-1 is a nicely designed "forest of tabs" type grounding junction that can clean up and organize all your avionics and system ground wires. Many people use two of these devices to lay out their grounding scheme. One for avionics or small signal grounds, and one for higher current grounds, such as lighting, strobes, pitot heat, etc. .P/N 07-19993 ..... ---

EFIS SPARK PLUG ADAPTERS

If you are going to run an electronic ignition on your aircraft engine, you will need a set of these to adapt the 18mm spark plug threads in your aircraft cylinder head to 14mm threads for use of automotive spark spark plugs. These are the highest quality adapters you will find.

18mm to 14mm Long Reach 4 Pack .....P/N 07-19992 ..... ---

E-MAG SPARK PLUG ADAPTER FOR 14MM SPARK PLUGS

08-06753-1

08-07608

Auto plug adapters allow for an easy conversion of 18mm (standard engine plug thread) to 14mm (common auto plug thread). Both short reach and long reach adapters are available. The Spark Plug Adapter allows you to use: High performance 14mm automotive plugs, that offer an almost unlimited variety of heat ranges, & electrode styles, designed specifically to take advantage of electronic ignitions - see ignition manufacturer documentation for recommendations (note: not all plugs are equally suited). Shorter plugs with 90° silicon boots provides greater clearance for sleeker cowls and less drag. Some kits include 4 adapter gaskets.

Set of 4 without gaskets - Short Reach .....P/N 08-06753 ..... ---
Set of 4 with gaskets - Short Reach .....P/N 08-06753-1 ..... ---
Set of 4 without gaskets - Long Reach .....P/N 08-07608 ..... ---
Set of 4 with gaskets - Long Reach .....P/N 08-07608-1 ..... ---

BUS MANAGER

This Bus Manager is an important safety device for aircraft that have critical electronics that require a protected essential bus. This would include aircraft that are running electronic fuel injection, electronic ignition, electric fuel pumps, or critical instrumentation. Provides a triple redundant essential bus for all critical electronic equipment. This redundancy is crucial for engines that rely on uninterrupted +12V power to critical items. The end user no longer has to attempt to come up with a home brew bus system for their plane. The Bus Manager has been professionally designed and over-built to faithfully provide extreme reliability..... P/N 07-01852..... ---

BUS MANAGER ACCESSORY KIT

The Accessory Kit for the Bus Manager consists of all the parts necessary to setup a Bus Manager based electrical distribution system for experimental aircraft.

P/N 07-01853..... ---

ELECTRIC BOOST PUMP MODULE

The EFII Boost Pump Module (BPM) brings a new level of installation simplicity and functionality to the fuel system of your aircraft equipped with Bendix, AFP or Precision Airmotive type mechanical fuel injection. The BPM reduces a time consuming and frustrating plumbing job to a simple and clean, easy to set up installation. It is used to supply a steady source of 30PSI fuel to your engine during take-off, landing, priming, or emergency situations. The BPM has integral back flow prevention and pressure regulation valving.

Standard..... P/N 07-01854..... ---
w/ 90° fitting..... P/N 07-02461..... ---

LAMAR (ELECTRODELTA) VOLTAGE REGULATORS

Mfg Part No.	Description	Replacement for	Part No.	Price
VR500-0101	27.7V Voltage Regulator	Cessna C611004-0101	07-00912	---
VR500-0102	28.8V Voltage Regulator	Cessna C611004-0102	07-00913	---
VR515F-5	28V Voltage Regulator	Cessna C611005-0102	07-27175	---
VR580	28V Voltage Regulator	Cessna C611008-0101	07-00916	---
VR801	28V Alternator Control	Cessna C611008-0101	07-00919	---
VR415F	14V Voltage Regulator	Zeftronic R15300	07-00910	---
VSF7203A	12V Voltage Regulator	Cessna, Pitts, Bellanca, Aeronca, Zeftronic R1510N	07-00921	---
VR2000-14-2	14V Voltage Regulator	---	07-24344	---
VR2000-28-2	28V Voltage Regulator	Diamond	07-00895	---
VSF7403A	24V Voltage Regulator	Cessna, Beechcraft, Aero Commander, TCM	07-00922	---
B-00371-1	14V Alternator Control	Piper Aircraft, Inc. (PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-181, PA-28-201T, PA-28-235, PA-28-236, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-28S-160, PA-28S-180, PA-32-260, PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-32R-300, PA-32R-301(HP), PA-32R-301(SP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-32S-300, PA-38-112)	07-01167	---
VR300-28-40	28V Voltage Regulator	Delco-Remy 1119237,1119656	07-00906	---
Hartzell (Electrodelta) Voltage Regulators (Factory Overhauled)				
Mfg. P/N	**Description**	**Replacement for**	**Part No.**	**Price**
VR515G-2	28V Voltage Regulator	Cessna	07-01108	---
Hartzell (Electrodelta) Voltage Sensors & Monitors (Factory New)				
Mfg Part No.	**Description**	**Replacement for**	**Part No.**	**Price**
GPM-001	28V Ground Power Motor	Cessna C593005-0101	07-01275	---
OS60	14V Overvoltage Sensor	Cessna C5930001-0101	07-00890	---
OS100-0101	28V Overvoltage Sensor	Cessna C593003-0101	07-00887	---
OS75-14	14V Overvoltage Sensor	Zeftronic V1510A	07-00891	---
OS75-28	28V Overvoltage Sensor	Zeftronic V2510A	07-00892	---

*** For complete application chart please visit our website at www.aircraftspruce.com**

EP

OVERHAULED COMPONENTS

Alternators, generators, and starters which are remanufactured for installation in general aviation aircraft. Fully FAA approved.

EXPERIMENTAL ALTERNATORS

Part No.	Volt/Amp	Price
ES-6012	14V60A	**CALL**
ES-6024	28V60A	**CALL**
ES-6212	13.8V60A	**CALL**
ES-6224	28V60A	**CALL**
ES-7024	28V70A	**CALL**
ES-10024	28V100A	**CALL**
1100715R	12V70A	**CALL**
1100716R	12V52A	**CALL**
1100717R	12V70A	**CALL**
1100718R	24V50A	**CALL**
1100723R	24V50A	**CALL**
1100747R	24V50A	**CALL**
1100753R	24V65A	**CALL**
1100792R	24V65A	**CALL**

DELCO- GENERATORS

Part No.	Volt/Amp	Price
DEL1101898	12V35A	**CALL**
DEL1101908	12V50A	**CALL**
DEL1101914	12V35A	**CALL**
DEL1105052	24V40A	**CALL**
DEL1105053	24V40A	**CALL**
DEL1105052	24V/50A	**CALL**
DEL1105056	24V40A	**CALL**

DELCO STARTERS

DEL1108234	24V	---
1108249R	12V	**CALL**
1109511R	12V	**CALL**
1109517R	24V	**CALL**
1109511R	12V	**CALL**
1109518R	24V	**CALL**
1109511R	12V	**CALL**

Part No.	Volt/Amp	Price
1109511R	12V	**CALL**
1109514R	12V	**CALL**
1109651R	12V	**CALL**
1109656R	12V	**CALL**
1109657R	12V	**CALL**
1109660R	12V	**CALL**
1109662R	24V	**CALL**
1109678R	12V	**CALL**
1109689R	12V	**CALL**
1109687R	24V	**CALL**
1109677R	12V	**CALL**
1109678R	12V	**CALL**
1109519R	12V	**CALL**
1109518R	24V	**CALL**
1109678R	12V	**CALL**
1109681	12V	**CALL**

*Drive not included (DEL 1971890). For price see listing for drives.

**Drive not included (DEL 1940969). For price see listing for drives.

LAMAR 14V VOLTAGE REGULATOR

Lamar Voltage Regulator DGR6-1 fits Cessna 150 thru Cessna 210 series aircraft. DGR6-1 is the PMA replacement for DGR6, C611001-0101, C611001-0102, C611001-0201, and VR600.
Manufactured in the USA.
P/N 07-01897 ..... ---

LAMAR 28V ALTERNATOR CONTROL

Lamar Alternator Control DGR3-1 fits Cessna 150 thru Cessna 210 series aircraft. DGR3-1 is the PMA replacement for DGR3, C611005-0103, C611501-0102, and VR15F. Manufactured in the USA.
P/N 07-01896 ..... ---

HARTZELL ENGINE TECH. ALTERNATORS

HARTZELL ENGINE TECHNOLOGIES ALTERNATORS

The most popular alternators in use on Cessna and Beech aircraft are of Ford manufacture. Chrysler alternators are usually found on Piper aircraft. These units are manufactured to aircraft specifications and are not available through automotive parts stores. **Note**: Core charge is billed on all exchange units & credited upon receipt of acceptable core.

ALTERNATOR PRODUCT INFORMATION

CHRYSLER ALTERNATORS - FACTORY OVERHAULED			
Model No.	**Description**	**Part No.**	**Price**
4111810R	12V/60A BD	07-06402	---
FORD ALTERNATORS - FACTORY OVERHAULED			
Model No.	**Description**	**Part No.**	**Price**
DOFF10300BR	28V/60A BD	07-06413	---
DOFF10300DR	28V/60A GD	07-06418	---
DOFF10300ER	28V/38A GD	07-06414	---
DOFF10300FR	15V/60A GD	07-06415	---
DOFF10300JR	15V/60A BD	07-06416	---
E3FF10300AAR	28V/95A BD	07-06417	---
ES4019RS	28V/130A BD	08-07118	---
EOFF10300BAR	28V/60A BD	07-06419	---

EP

HARTZELL ENGINE TECHNOLOGIES OVERHAULED AL SERIES ALTERNATORS

Aircraft Spruce carries the full line of alternators, and starters which are remanufactured by Hartzell for installation in general aviation aircraft. Fully FAA approved. All prices shown are exchange prices. Core charges are billed when unit is shipped. Core credit is issued upon return of acceptable like model core to Aircraft Spruce West in Corona, CA. **Note**: If core is not in stock at factory, customer must send core to Aircraft Spruce at time of order to have the core overhauled.

Hartzell Part No.	Volt/ Amp	Drive	Replaces	Part No.	Price
ALE-6520R	12V/40A	Belt	ALE-6420, Lyc LW-14302	08-07005	---
ALE-8520R	12V/40A	Belt	ALE-8420, Lyc LW-14300	08-07006	---
ALT-8520R	24V/50A	Belt	ALT-8420, CMI 652486	07-06404	---
ALT-8521R	24V/50A	Belt	ALT-8421	08-07008	---
ALT-9522R	24V/50A	Direct	ALT-9422, CMI 641668	07-06405	---
ALU-6521RS	24V/70A	No Pully/ Belt	ALU-6421LS, Lyc LW-14329	08-07009	---
ALU-8521R	24V/70A	Belt	ALU-8421	07-06406	---
ALU-8521RS	24V/70A	No Pully/ Belt	ALU-8421LS, Lyc LW-14326	07-06407	---
ALU-8532RLS	8V/75A	--	--	08-15661	---
ALU-9522R	24V/70A	Direct	--	08-07010	---
ALX-8521R	12V/70A	Belt	--	07-06421	---
ALX-8521RS	12V/70A	No Pully/ Belt	--	08-07014	---
ALX-9524R	12V/70A	Direct	CMI 641670	08-07016	---
ALX-9525BR	12V/70A	Direct	CMI 643008	07-06410	---
ALY-6520R	12V/60A	Belt	Lyc LW-14333	08-07017	---
ALY-6520RLS	12V/60A	--	--	08-15662	---
ALY-6521R	12V/60A	Belt	--	07-06411	---
ALY-6522R	12V/60A	Belt	--	08-07018	---
ALY-6527R	12V/60A	Belt	Lyc LW-14315	08-07019	---
ALY-8520R	12V/60A	Belt	--	07-06412	---
ALY-8520RS	12V/60A	No Pully/ Belt	Lyc LW-14313	08-07020	---
ALY-8524R	12V/60A	Belt	--	08-07021	---

HARTZELL ENGINE TECHNOLOGIES NEW ALTERNATORS

AL Series

ES4000 Series

ES4020 Series

As the OEM, Hartzell offers factory new alternators engineered specifically to meet the challenges and increased demands of today's aircraft electrical systems. Each unit is aviation designed & developed, no automotive parts used. For decades our alternators have been powering Lycoming/Continental engines with unmatched performance and reliability.

AL SERIES ALTERNATOR - Prestolite Style - FAA/PMA Approved.

Model No.	Volts/Amps	Description	Part No.	Price
ALT8520	24V/50A	Belt Driven	08-07122	---
ALT8521	24V/50A	Belt Driven	08-07123	---
ALT8521LS	24V/50A	No Pully/Belt	08-07124	---
ALT9522	24V/50A	Gear Driven	08-07125	---
ALU-6526	24V/60A	Belt Driven	07-19276	---
ALX-6526	12V/70A	Belt Driven	07-19277	---
ALU6521 LS	24V/70A	Belt Driven	08-07126	---
ALU8521	24V/70A	Belt Driven	08-07127	---
ALU8521 LS	24V/70A	No Pully/Belt	08-07128	---
ALU8532 LS	24V/70A	No Pully/Belt	08-07129	---
ALX8521	12V/70A	Belt Driven	08-07130	---
ALX8521LS	12V/70A	No Pully/Belt	08-07131	---
ALX8523	12V/70A	Belt Driven	08-07132	---
ALU-6539-4	25V/175A	--	08-15650	---
ALX9524	12V/70A	Gear Driven	08-07133	---
ALX9525B	12V/70A	Gear Driven	08-07134	---
ALY9524	12V/60A	Belt Driven	08-07135	---
ALY6527	12V/60A	Belt Driven	08-07136	---
ALU-6526	24V/60A	Belt Driven	07-19276	---
ALX-6526	12V/70A	Belt Driven	07-19277	---
ALY8520	12V/60A	Belt Driven	08-07137	---
ALY8520LS	12V/60A	Belt Driven	08-07138	---

ES4000 SERIES ALTERNATOR - Ford Style - FAA/PMA Approved

Model No.	Volts/Amps	Description	Part No.	Price
ES4000	15V/60A	Belt Driven	08-07139	---
ES4001	15V/60A	Gear Driven	08-07141	---
ES4002	15V/80A	Gear Driven	08-07142	---
ES4003	15V/95A	Belt Driven	08-07143	---
ES4004	28V/38A	Gear Driven	08-07144	---
ES4006	28V/60A	Gear Driven	08-07145	---
ES4008	28V/70A	Gear Driven	08-07146	---
ES4009	28V/70A	Belt Driven	08-07147	---
ES4011	28V/95A	Belt Driven	08-07148	---
ES4019LS	28V/130A	Belt Driven	08-07149	---
ES4017	28V/90A	Belt Driven	08-15654	---
ES4011LS	15V/80A	Belt Driven	08-15653	---
ES40193LS	28V/130A	Belt Driven	08-15655	---

ES4020 SERIES ALTERNATOR - Chrysler Style - FAA/PMA Approved

Model No.	Volts/Amps	Description	Part No.	Price
ES4020	14V/90A	Belt Driven	08-07150	---
ES4029	28V/70A	Gear Driven	08-07151	---

HARTZELL ENGINE TECH. ALTERNATORS

HARTZELL ENGINE TECHNOLOGIES ES4020 SERIES ALTERNATORS - FACTORY NEW

Chrysler Style - FAA/PMA Approved Proven, Tested, & Trusted. As the OEM, Hartzell Engine Technologies offers factory new alternators engineered specifically to meet the challenges and increased demands of today's aircraft electrical systems. Each unit is aviation designed & developed, no automotive parts used. For decades these alternators have been powering Lycoming/ Continental engines with unmatched performance and reliability.

Volts/Amps	Description	Model No.	Part No.	Price
24V/85A	Belt Driven	ES-4024LP	08-15656	---
24V/85A	Belt Driven	ES-4024LP-2	08-15657	---
24V/85A	Belt Driven	ES-4024LP-3	08-15658	---

HARTZELL ENGINE TECHNOLOGIES ES-10024 AIRCRAFT ALTERNATOR - FACTORY NEW

Introducing the brand new ES-10024 28volt / 100amp aircraft alternator. The ES-10024 alternator is a direct replacement for TCM part number 656802. The ES-10024 is a field proven design that has been in use for over 5 years with thousands of alternators operating on the world's top selling aircraft. Prestolite Style - FAA/PMA Approved. Lightweight, cost effective, 2 yr. warranty.

Model No.	Volt/Amp	Drive	Replaces	Part No.	Price
ES-10024V-2	24V/100A	--	--	08-15651	---
ES-10024B-6	24V/100A	Belt	Piper 651-756	08-15652	---

HARTZELL ES7024-14 ALTERNATOR

Hartzell Lightweight Alternator ES7024-14.
28 Volt, 70 Amps. Weight: 7 lbs.
Replaces TCM part number 657199.
Features: • All aircraft quality parts, no automotive parts • High altitude brushes • High speed bearings • High temperature varnish on rotor and stator • No modifications necessary for Retro-fit into any existing Ford style applications • Two year warranty .....P/N 08-07444 ..... ---

HARTZELL ES10024 ALTERNATOR

Introducing the brand new ES-10024 28 volt / 100amp aircraft alternator. The ES-10024 alternator is a direct replacement for TCM part number 656802. The ES-10024 is a field proven design that has been in use for over 5 years with thousands of alternators operating on the world's top selling aircraft.
Prestolite Style - FAA/PMA Approved.
Lightweight, cost effective, 2 yr. warranty.
Features: • Up to 9.6 lbs. weight savings (per engine) • OEM Direct Replacement • More power at engine cruise • Built in noise cancellation • Rugged design for extreme conditions • More economical than overhauled units • Two year warranty. **Specifications**: • 28 Volt / 100 Amp Prestolite Style • Replaces TCM part number 656802
P/N 08-07443 ..... ---

HARTZELLENGINETECHNOLOGIES ES-6024D ALTERNATOR

This unit is based on the highly reliable, field proven 100A ES-10024 and extensive certification testing has demonstrated a marked increase in efficiency and performance compared to the legacy Continental Crittenden unit it replaces. Aside from the improvement in reliability, two additional advantages offered by this alternator is that owner/pilots will really appreciate are improvements both in cut-in and idle speed performance – with over double the power output at idle!
Benefits of the new HET ES-6024D alternator include:
• Dramatically increased reliability and estimated MTBF compared to legacy Crittenden alternators • Overall efficiency increased by six to 10% over the entire operating range, resulting in lower operating temperatures • Output at engine idle speed more than doubled to ~23A.
The ES-6024D alternator has been FAA PMA certified as a direct replacement for the 60A Continental Crittenden alternator on Continental -520 and -550 series engines. It replaces Continental alternator models 646843, 646490 and 642055 found on various twin Cessnas, Beechcraft Bonanzas and Barons, early pre-glass panel Cirrus SR-22s, and the Cessna TTx-series aircraft including early Corvalis and Columbia models .....P/N 07-18097 ..... ---

HARTZELL ALV-9610 ALTERNATOR

Lighter, Tougher, and Proven! Introducing the brand new ALV-9610. The ALV-9610 alternator is a direct replacement for gear driven heavyweight alternators on the Continental 520 & 550 engines. Weighing under 13 lbs., the ALV-9610 is up to 9 lbs. lighter than current heavyweight options. The ALV-9610 is a field proven design that has been in use for over 5 years with thousands of alternators operating on the world's top selling aircraft. FAA/PMA Approved.
See Service Bulletin Document on our website regarding coupling SB11-3
Features: • Up to 9.6 lbs. weight savings (per engine) • OEM Direct Replacement • More power at engine cruise • Built in noise cancellation • Rugged design for extreme conditions • More economical than overhauled units • Two year warranty. **Specifications**: • 28 Volt / 100 Amp Prestolite Style • Max Continuous Oper. Speed: 10000 rpm • Type Drive: Gear • Min. Speed for Regulation: 2400 rpm • Max. Operating Altitude: 35000 rpm • Weight: 12 lbs • Rotation: Bi-Directional • Replaces TCM part numbers: 642056, 646491, 646842, 649304, as well as ALV-9510.....P/N 08-07442 ..... ---

HARTZELL ENGINE TECHNOLOGIES ES-6012-6 ALTERNATOR - FACTORY NEW

ES-6012-6 - 12V/60A Belt Driven alternator created for six-cylinder Continental engines. This unit is based on the highly reliable, field proven 100A ES-10024 and extensive certification testing has demonstrated a marked increase in efficiency and performance compared to the legacy Continental Crittenden unit it replaces. Aside from the improvement in reliability, two additional advantages offered by this alternator is that owner/pilots will really appreciate are improvements both in cut-in and idle speed performance – with over double the power output at idle!
Benefits of the new HET ES-6012-6 alternator include:
• Dramatically increased reliability and estimated MTBF compared to legacy Crittenden alternators • Overall efficiency increased by six to 10% over the entire operating range, resulting in lower operating temperatures .....P/N 08-15659 ..... ---

HARTZELL ENGINE TECH ALY-6521 ALTERNATOR

Hartzell/Prestolite Alternator. 12 Volt, 60 Amp. Overhauled by Aerotech of Louisville. Belt drive, pulley not included. Exchange Sale and Core Return Required.....P/N 07-27106 ..... ---

ALTERNATOR DRIVE COUPLINGS

Overhauled alternator drive couplings for the gear driven TCM alternators. Additional core charge added to purchase at time of checkout
Part No. 646655R
Applicable to engine models: IO-520, TS10-520, 10-550, GTS10-520 .....P/N 07-00641 ..... ---
Part No. 635796R
Applicable to engine models:
C-75, C-85, C-90, C-115, C-125, C-145, E-165, E-185, E-225, O-200, O-300, GO-300, GIO-300, IO-240, IO-360, TS10-360, & LTS10-360
P/N 07-00642 ..... ---

HARTZELL FAA/PMA BRUSH SETS

Mfr. Part No.	Description	Part No.	Price
ALE-1013AS	Hartzell Brush Set	07-00963	---
10-1020	Hartzell Carbon Brush Set	07-02713	---
ALV-1012S	Brush Set Package	07-03225	---
ALE-2013AS	Carbon Brush Set	07-18138	---
90-2526	Hartzell Brush Set	07-18766	---
AMA-19S	Prestolite Brush Set	07-20460	---
ALV-1015S	Hartzell Brush Holder	07-24501	---
10-9000S	Hartzell Brushes	07-19977	---
15-5005S	Hartzell Brush Holder Assy	07-19976	---
11-1013S	Hartzell Brush Holder, 14v	07-24519	---
ES646348	Hartzell Brush, Str Positive	07-24694	---
40D1542S	Hartzell Brush	07-24725	---
90E53-1S	Hartzell Brush	07-24808	---
7025480001S	Hartzell Brush Assembly	07-24812	---
7024512001S	Hartzell Brush Piece Pt Pkg	07-24830	---
ALU-3045BS	Hartzell Brush Assembly	08-13833	---

CORE CHARGES APPLY TO ALL NEW AND OVERHAULED HARTZELL UNITS.

HARTZELL ENGINE TECH. ASG ALTERNATORS

NEW HARTZELL ASG SERIES ALTERNATOR

ASG Series alternators were originally developed by Aero Electric and are OEM on several Cessna applications and PMA replacements for out-of-production 24V Ford alternators. The ASG aircraft alternator designs incorporated several improvements over the Ford alternators they replaced.

Model Number	Product & Application Information	Part Number	Price
ASG10001-13-PMA	60A/28V, Small Frame Ford mount eligible to replace Cessna/Ford alternators used on several legacy 28V single engine Cessnas, including 152, 172, 177, 180, 128, 206 and 207. Replaces Ford DOFF10300B (Cessna P/N C611503-0101 and -0102).	07-18003	---
ASG10001-17-PMA	60A/28V, Small Frame Ford mount used on Cessna 172R, 172S, 182S and 182T, as well as being eligible to replace Cessna/Ford alternators on legacy 28V, 188 and 207 model Cessnas. Replaces Ford DOFF10300B (Cessna P/N 1570213-7) and Cessna P/N 9910591-5 and -11	07-18004	---
ASG10001-18-PMA	60A/28V, Small Frame Ford mount used on Cessna 206H, T206H. Replaces Cessna P/N 9910591-6 and -12	07-18005	---
ASG12000-1-PMA	95A/28V, Large Frame Ford mount is eligible on many 28V legacy piston engine Cessnas, including: 182, R182, T182, TR182, A188, T188, U206, TU206, 207, T207, 210, T210, P210, and T303. Replaces Ford E3FF10300AA (Cessna P/N C611505-0102) and Cessna P/N 9910592-1.	07-18006	---
ASG12000-2-PMA	95A/28V, Large Frame Ford mount used on all Cessna 208s. Replaces Cessna P/N C611505-0201 and 9910592-2.	07-18007	---
ASG12000-3-PMA	95A/28V, Large Frame Ford mount used on Cessna 182S, 182T, T182T, 206H, T206H with 95A option. Replaces Cessna P/N 9910592-3.	07-18008	---

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OVERHAULED HARTZELL ASG SERIES ALTERNATOR

ASG Series alternators were originally developed by Aero Electric and are OEM on several Cessna applications and PMA replacements for out-of-production 24V Ford alternators. The ASG aircraft alternator designs incorporated several improvements over the Ford alternators they replaced.

Additional core charge added to purchase at time of purchase.

Model Number	Product & Application Information	Acceptable Cores	Part Number	Price
ASG10001-13R	60A/28V, Small Frame Ford mount eligible to replace Cessna/Ford alternators used on several legacy 28V single engine Cessnas, including 152, 172, 177, 180, 128, 206 and 207. Replaces Ford DOFF10300B (Cessna P/N C611503-0101 and -0102).	C611503-0101 & -0102	07-18003-1	---
ASG10001-17R	60A/28V, Small Frame Ford mount used on Cessna 172R, 172S, 182S and 182T, as well as being eligible to replace Cessna/Ford alternators on legacy 28V, 188 and 207 model Cessnas. Replaces Ford DOFF10300B (Cessna P/N 1570213-7) and Cessna P/N 9910591-5 and -11	1570213-7, 9910591-5 & -11	07-18004-1	---
ASG10001-18R	60A/28V, Small Frame Ford mount used on Cessna 206H, T206H. Replaces Cessna P/N 9910591-6 and -12	99105916 & -12	07-18005-1	---
ASG12000-1R-PMA	95A/28V, Large Frame Ford mount is eligible on many 28V legacy piston engine Cessnas, including: 182, R182, T182, TR182, A188, T188, U206, TU206, 207, T207, 210, T210, P210, and T303. Replaces Ford E3FF10300AA (Cessna P/N C611505-0102) and Cessna P/N 9910592-1.	C611505-0102 & 9910592-1	07-18006-1	---
ASG12000-2R-PMA	95A/28V, Large Frame Ford mount used on all Cessna 208s. Replaces Cessna P/N C611505-0201 and 9910592-2.	C611505-0201 & 9910592-2	07-18007-1	---
ASG12000-3R-PMA	95A/28V, Large Frame Ford mount used on Cessna 182S, 182T, T182T, 206H, T206H with 95A option. Replaces Cessna P/N 9910592-3.	9910592-3	07-18008-1	---

HARTZELL REPLACEMENT PARTS

For a complete listing of Hartzell Starters, Alternators, Turbochargers, Brush Sets, Bolts, Rotors, O-Rings, Bearings, Housings, Screws, Washers, Nuts, Seals, and other replacement parts, please see our website at

WWW.AIRCRAFTSPRUCE.COM

CORE CHARGES APPLY TO ALL NEW AND OVERHAULED HARTZELL UNITS.

SKY-TEC STARTER ADAPTERS FOR CONTINENTAL ENGINES

Sky-Tec factory new starter adapters for Continental engines. The starter motor bolts to the adapter and connects to an input shaft. This shaft has a worm gear attached that turns a larger brass gear. The brass gear has a large spring attached that compresses on the aircraft starter drive shaft turning it to start the aircraft engine.
When the engine starts, the starter is released and the spring opens allowing the shaft to turn freely within the spring.

Hartzell Part No.	CMI OEM	Part Number	Price
55260	654223	07-25410	---
55261	655034	07-25418	---
55262	655035	07-25419	---
55263	642083-1A2	07-25382	---
55264	642083A12	07-25380	---
55267	642087A68	07-25407	---
55268	642087A69	07-25405	---
55269	642087A70	07-25402	---
55270	642087A72	07-25397	---
55271	643259A18	07-25383	---
55272	643259A39	07-25404	---
55273	643259A43	07-25408	---
55274	646220-1A1	07-25409	---
55275	646220-1A3	07-25411	---
55276	646220A37	07-25379	---
55277	646220A43	07-25393	---
55278	646220A45	07-25394	---
55279	646220A50	07-25395	---
55280	646220A51	07-25403	---
55281	646220A53	07-25378	---
55282	646220A54	07-25400	---
55283	646220A56	07-25401	---
55284	646757A15	07-25406	---
55285	646757A16	07-25391	---
55287	653074A39	07-25412	---
55288	653074A45	07-25413	---
55289	653074A47	07-25398	---
55290	653074A51	07-25399	---
55291	653074A52	07-25414	---
55292	653074A53	07-25421	---
55293	653074A55	07-25415	---
55294	653074A56	07-25416	---
55297	658440A1	07-25387	---
55298	658440A2	07-25384	---
55299	658440A3	07-25388	---
55300	658440A4	07-25396	---
55301	658440A5	07-25392	---
55302	658440A7	07-25389	---
55303	658440A8	07-25390	---
55304	653074A40	07-25417	---
55305	653074A54	07-25420	---

HARTZELL QUALITY OVERHAULED TURBOCHARGERS

TURBOCHARGERS

All Turbo-system components (turbocharger, wastegate, controller, and pressure relief valves) overhauled by Quality Aircraft Accessories (QAA) are overhauled in accordance with Hartzell Engine Technologies Recommended Service Facility (RSF) requirements.

Specifically, these RSF requirements are:
- All turbo-system components are overhauled in accordance with the most recent component maintenance manual revision
- Only original Hartzell Engine Technology manufactured components are utilized during the overhaul process
- Product liability insurance applies to all turbo-system components overhauled
- Overhauled turbochargers include the 100% replacement of the turbine wheel and center housing.

Note: Core Charges vary and apply to all Turbochargers.

OEM Part No.	Replaces	Description	Part Number	Price
406610-9019	CMI 632729-10	406610-9019 Quality OH Hartzell Turbocharger	07-24350	---
406610-9025	CMI 632729-11	406610-9025 Quality OH Hartzell Turbocharger	07-24353	---
406610-9026	Lycoming LW-15749	406610-9026 Quality OH Hartzell Turbocharger	07-24354	---
406610-9028	CMI 632729-12	406610-9028 Quality OH Hartzell Turbocharger	07-24355	---
406610-9029	CMI 632729-13	406610-9029 Quality OH Hartzell Turbocharger	07-24356	---
406610-9030	Cessna C295001-0501	406610-9030 Quality OH Hartzell Turbocharger	07-24357	---
406610-9031	Lycoming LW-19330	406610-9031 Quality OH Hartzell Turbocharger	07-24358	---
407540-9003	Lycoming LW-13310	407540-9003 Quality OH Hartzell Turbocharger	07-24360	---
407810-9001	CMI 635630	407810-9001 Quality OH Hartzell Turbocharger	07-24361	---
408610-9001	CMI 637374-1	408610-9001 Quality OH Hartzell Turbocharger	07-24362	---
409170-9001	Lycoming LW-12463	409170-9001 Quality OH Hartzell Turbocharger	07-24363	---
409680-9011	CMI 640327-11	409680-9011 Quality OH Hartzell Turbocharger	07-24364	---
465292-9002	CMI 642518-4	465292-9002 Quality OH Hartzell Turbocharger	07-24365	---
465292-9004	CMI 642518-4	465292-9004 Quality OH Hartzell Turbocharger	07-24366	---
465680-9004	Cessna C295001-0202	465680-9004 Quality OH Hartzell Turbocharger	07-24368	---
465930-9002	CMI 641672-2	465930-9002 Quality OH Hartzell Turbocharger	07-24370	---
465930-9003	CMI 641672-3	465930-9003 Quality OH Hartzell Turbocharger	07-24371	---
466011-9002	Lycoming 46C19836	466011-9002 Quality OH Hartzell Turbocharger	07-24372	---
466304-9003	CMI 646677	466304-9003 Quality OH Hartzell Turbocharger	07-24373	---
466642-9001	CMI 649151-1	466642-9001 Quality OH Hartzell Turbocharger	07-24374	---
466642-9002	CMI 649151-2	466642-9002 Quality OH Hartzell Turbocharger	07-24375	---
466642-9005	Lycoming 46C19839	466642-9005 Quality OH Hartzell Turbocharger	07-24376	---
466642-9006	Lycoming 46C22924	466642-9006 Quality OH Hartzell Turbocharger	07-24377	---
466881-9001	Lycoming 46P22250	466881-9001 Quality OH Hartzell Turbocharger	07-24378	---

CONTROLLERS

All Turbo-system components (turbocharger, wastegate, controller, and pressure relief valves) overhauled by Quality Aircraft Accessories (QAA) are overhauled in accordance with Hartzell Engine Technologies Recommended Service Facility (RSF) requirements.

Specifically, these RSF requirements are:
- All turbo-system components are overhauled in accordance with the most recent component maintenance manual revision
- Only original Hartzell Engine Technology manufactured components are utilized during the overhaul process
- Product liability insurance applies to all turbo-system components overhauled
- Overhauled turbochargers include the 100% replacement of the turbine wheel and center housing.

Note: Core Charges vary and apply to all Turbochargers Components.

OEM Part No.	Replaces	Description	Part Number	Price
470688-9005	Cessna C165004-0501(R)	470688-9005 Quality OH Hartzell Controller	07-24404	---
470688-9007	Cessna C165004-0502(R)	470688-9007 Quality Factory Rebuilt Controller	07-24405	---
470836-9003	CMI 633388-9, 641434-2	470836-9003 Quality OH Hartzell Variable Absolute Pressure Controller	07-24407	---
470836-9019	CMI 633388-11, 641434-6	470836-9019 Quality OH Hartzell Variable Absolute Pressure Controller	07-24409	---
470836-9020	CMI 642247, 642271	470836-9020 Quality OH Hartzell Variable Absolute Pressure Controller	07-24410	---

CORE CHARGES APPLY TO ALL NEW AND OVERHAULED HARTZELL UNITS.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CONTROLLERS CONT'D

OEM Part No.	Replaces	Description	Part No.	Price
470836-9021	CMI 633388-9, 641434-2	470836-9021 Quality OH Hartzell Variable Absolute Pressure Controller	07-24411	---
470884-9004	Lycoming LW-10682	470884-9004 Quality OH Hartzell Density Controller	07-24412	---
470884-9010	Lycoming LW-16840	470884-9010 Quality OH Hartzell Density Controller	07-24413	---
470886-9002	Lycoming LW-10098	470886-9002 Quality OH Hartzell Differential Controller	07-24414	---
470948-0001	Cessna C165004-0102	470948-9001 Quality OH Hartzell Differential Dual Absolute Pressure Ratio Controller	07-27216	---
481008-9008	Lycoming LW-14297	481008-9008 Quality OH Hartzell Variable Absolute Pressure Controller	07-24418	---
481008-9022	CMI 640655-22, 643138-1	481008-9022 Quality OH Hartzell Variable Absolute Pressure Controller	07-24419	---
481008-9025	Lycoming LW-18518	481008-9025 Quality OH Hartzell Variable Absolute Pressure Controller	07-24420	---
481008-9028	CMI 640655-28, 649362-1	481008-9028 Quality OH Hartzell Variable Absolute Pressure Controller	07-24421	---
481058-9001	Cessna C165004-0701	481058-9001 Quality OH Hartzell Sloped Controller	07-24423	---
481058-9007	Lycoming 48B22488	481058-9007 Quality OH Hartzell Sloped Controller	07-24425	---
481058-9013	CMI 646318-13	481058-9013 Quality OH Hartzell Sloped Controller	07-24428	---

WASTEGATES

All Turbo-system components (turbocharger, wastegate, controller, and pressure relief valves) overhauled by Quality Aircraft Accessories (QAA) are overhauled in accordance with Hartzell Engine Technologies Recommended Service Facility (RSF) requirements.

Specifically, these RSF requirements are:
- All turbo-system components are overhauled in accordance with the most recent component maintenance manual revision
- Only original Hartzell Engine Technology manufactured components are utilized during the overhaul process
- Product liability insurance applies to all turbo-system components overhauled

All overhauled turbo-system components have a two-year, 1000-hour warranty against material and workmanship defects."

OEM P/N	Replaces	Description	Part Number	Price
470780-9015	Cessna 5050154-15	470780-9015 Quality Oh Hartzell Wastegate	07-24381	---
470818-0003OE	Lyc LW-12778	470818-9003 Quality Oh Hartzell Wastegate	07-27215	---
470842-9003	Cessna C165006-0303	470842-9003 Quality Oh Hartzell Wastegate	07-24386	---
470842-9004	Cessna C165006-0304	470842-9004 Quality Oh Hartzell Wastegate	07-24387	---
470842-9009	CMI 649006-9	470842-9009 Quality Oh Hartzell Wastegate	07-24389	---
470892-9002	CMI 635381-2	470892-9002 Quality Oh Hartzell Wastegate	07-24390	---
470908-9012	Cessna C165006-0106	470908-9012 Quality Oh Hartzell Wastegate	07-24392	---
470908-9013	Cessna C165006-0107	470908-9013 Quality Oh Hartzell Wastegate	07-27211	---
470908-9015	Cessna C165006-0109	470908-9015 Quality Oh Hartzell Wastegate	07-24394	---
470908-9017	CMI 636188-17	470908-9017 Quality Oh Hartzell Wastegate	07-24395	---
470908-9020	Cessna C165006-0114	470908-9020 Quality Oh Hartzell Wastegate	07-24396	---
470954-9001	Lyc LW-12960	470954-9001 Quality Oh Hartzell Wastegate	07-24397	---
470954-9003	Cessna C165006-0601	470954-9003 Quality Oh Hartzell Wastegate	07-24398	---
481064-9001	Cessna C165006-00113	481064-9001 Quality Oh Hartzell Wastegate	07-24402	---
481064-9002	CMI 646317	481064-9002 Quality Oh Hartzell Wastegate	07-24403	---

CORE CHARGES APPLY TO ALL NEW AND OVERHAULED HARTZELL UNITS.

HARTZELL TURBOCHARGERS/ALTERNATOR KITS

All Turbo-system components (turbocharger, wastegate, controller, and pressure relief valves) overhauled by Quality Aircraft Accessories (QAA) are overhauled in accordance with Hartzell Engine Technologies Recommended Service Facility (RSF) requirements.

Specifically, these RSF requirements are:
- All turbo-system components are overhauled in accordance with the most recent component maintenance manual revision
- Only original Hartzell Engine Technology manufactured components are utilized during the overhaul process
- Product liability insurance applies to all turbo-system components overhauled

All overhauled turbo-system components have a two-year, 1000-hour warranty against material and workmanship defects."

Note: Core Charges vary and apply to all Turbochargers Components.

PRESSURE RELIEF VALVES

OEM P/N	Replaces	Description	Part Number	Price
470930-9001	C482002-0101	470930-9001 Quality OH Hartzell Pressure Relief Valve	07-24429	---
470930-9002	C482002-0102	470930-9002 Quality OH Hartzell Pressure Relief Valve	07-24430	---
470930-9004	C482002-0103	470930-9004 Quality OH Hartzell Pressure Relief Valve	07-24431	---
470930-9005	C482002-0104	470930-9005 Quality OH Hartzell Pressure Relief Valve	07-24432	---
470930-9006	C482002-0105	470930-9006 Quality OH Hartzell Pressure Relief Valve	07-24433	---
470930-90016	7110067	470930-90016 Quality OH Hartzell Pressure Relief Valve	07-24434	---
470930-9017	637583-17	470930-9017 Quality OH Hartzell Pressure Relief Valve	07-24435	---
470930-9018	637583-18	470930-9018 Quality OH Hartzell Pressure Relief Valve	07-24436	---
470930-9019	637583-19	470930-9019 Quality OH Hartzell Pressure Relief Valve	07-24437	---
470944-9007	Lyc LW-14445-2	470944-9007 Quality OH Hartzell Pressure Relief Valve	07-24438	---
470944-9009	CMI 63319-9	470944-9009 Quality OH Hartzell Pressure Relief Valve	07-24439	---
470944-9010	Lyc LW-14445-4	470944-9010 Quality OH Hartzell Pressure Relief Valve	07-24440	---
470944-9011	Lyc LW-14445-3	470944-9011 Quality OH Hartzell Pressure Relief Valve	07-24441	---
470944-9015	Cessna C402002-0110	470944-9015 Quality OH Hartzell Pressure Relief Valve	07-24442	---
470944-9012	Cessna C482002-0108	470944-9012 Quality OH Hartzell Pressure Relief Valve	07-24443	---
470944-9020	Cessna C482002-0113	470944-9020 Quality OH Hartzell Pressure Relief Valve	07-24444	---
470944-9022	Lyc LW-14445-6	470944-9022 Quality OH Hartzell Pressure Relief Valve	07-24445	---
470944-9024	Lyc CMI 63931-24	470944-9024 Quality OH Hartzell Pressure Relief Valve	07-24446	---
470944-9026	CMI 636319-26	470944-9026 Quality OH Hartzell Pressure Relief Valve	07-24447	---
470944-9029	Lyc LW-14445-10	470944-9029 Quality OH Hartzell Pressure Relief Valve	07-24448	---
470944-9030	Lyc LW-14445-11	470944-9030 Quality OH Hartzell Pressure Relief Valve	07-24449	---
470944-9034	CMI 636319-34	470944-9034 Quality OH Hartzell Pressure Relief Valve	07-24450	---
481028-9001	CMI 641404-1	481028-9001 Quality OH Hartzell Pressure Relief Valve	07-24451	---
481066-9001	CMI 643511-1	481066-9001 Quality OH Hartzell Pressure Relief Valve	07-24452	---
481066-9003	CMI 643511-3	481066-9003 Quality OH Hartzell Pressure Relief Valve	07-24453	---

HARTZELL OVERHAULED ALTERNATOR KITS

Model No.	Description	Part No.	Price
90-3032	For ALE-6406,G; ALE-6420,G; ALE-6520; ALE-8105A; ALE-8406,G; ALE-8408; ALE-8420,G; ALE-8421; ALE-8520; ALE-8521	07-01684	---
90-3035	For ALT-8403; ALT-8404; ALT-8404LS; ALT-8407; ALT-8420; ALT-8421; ALT-8421LS; ALT-8520; ALT-8521; ALT-8521LS	07-01687	---
90-3036	For ALT-9405; ALT-9422; ALT-9522	07-01688	---
90-3037	For ALU-6421LS; ALU-6521LS; ALU-8403; ALU-8403LS; ALU-8421LS; ALU-8521; ALU-8521LS	07-01689	---
90-3040	For ALV-9401; ALV-9401L; ALV-9405L; ALV-9407, S	07-01692	---
90-3042	For ALV-9510	07-01694	---
90-3044	For ALX-8403,G,R,RG; ALX-8403LS,RS,LSG,RSG; ALX-8421,G,R,RG; ALX-8421LS,RS,LSG,RSG; ALX-8521; ALX-8521LS	07-01696	---
90-3045	For ALX-9402	07-01697	---
90-3046	For ALX-9404L,LG,R,RG; ALX-9422L,LG,R,RG; ALX-9424; ALX-9522; ALX-9524	07-01493	---
90-3048	For ALY-6403,G; ALY-6406,G; ALY-6420,G; ALY-6427,G; ALY-6520,G; ALY-6520LS; ALY-6527,G; ALY-8403,G; ALY-8403LS,G; ALY-8410; ALY-8420,G; ALY-8420LS, G; ALY-8423; ALY-8520; ALY-8520LS	07-01495	---
90-3052	For ES4020	07-01498	---
90-3053	For ES4000; ES4000LS; ES4005; ES4005-2; ES4007; ES4009; ES4009LS; ES4013; ES4013LS; ES4017; ES4018; ES4018LS; ES4023; ES4024; ES4030; ES4031; ES4040	07-01499	---
90-3054	For ES4021; ES4024L; ES4024LP	07-01501	---
90-3055	ES4003; ES4003LS; ES4011; ES4011LS; ES4011-1; ES4011-1LS; ES4014; ES4016; ES4019; ES4019LS; ES4019-2LS; ES4022	07-01502	---
90-3056	For ES4001; ES4002; ES4004; ES4006; ES4008; ES4028; ES4029	07-01503	---
90-3057	For 4111810R	07-01504	---
90-3058	For DOFF10300B; DOFF10300J; EOFF10300BA; E3FF10300BA	07-01505	---
90-3059	For DOFF1030D; DOFF10300E; DOFF10300F	07-01506	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

HARTZELL STARTER OVERHAUL KITS

HARTZELL STARTER OVERHAUL KITS

Major overhaul kits for its line of lightweight Lycoming and Continental starters.
After consulting with industry operators, owners and flight schools, it was recognized that downtime is critical in this economy and there is a need to minimize downtime and costs when repairing or replacing starters.
The overhaul kits include all parts necessary for a normal major overhaul, as well as any special tools, lubricants, and thread compounds.
The overhaul manual has been rewritten to highlight tear down and assembly with detailed drawings and instructions. The manual covers all aspects of the rebuild in easily understood steps with tech support just a call or email away. (See Documents Tab)
Average time to do a complete overhaul can be accomplished in less than an hour reducing downtime and increase revenue, as well as maintain the quality standards of the maintenace organization.

- PM1201-OHK - Fits all PM1201/1202 starters
- PM1203-OHK - Fits all PM1203 starters
- PM1204-OHK - Fits all PM1204 starters
- PM2401-OHK - Fits all PM2401/2402 starters
- PM2403-OHK - Fits all PM2403 starters
- PM2404-OHK - Fits all PM2404 starters

Description	Part No.	Price
PM1204-OHK - Fits all PM1204 starters	08-06007-1	---
PM2403-OHK - Fits all PM2403 starters	07-01273-1	---
LT-EBB-142A Starter Drive Kit, Lycoming 149T, left hand Rotation fits all 04 starters	07-01899	---
OHK-0001 Kit , Tools, OHK, Lycoming fits all OH kits	07-01901	---
OHK-0002 Kit, Planetary Gears, 3 ea. Fits all Lycoming starters	07-01902	---
OHK-003 Kit, Thru Bolt and Anchor Ring #10 fits all Lycoming starters	07-01903	---
OHK-0004 Kit, Brush Assembly, 12V pos. fits all 12 volt starters	07-01904	---
OHK-0005 Kit, Brush Assembly, 12V neg fits all 12 volt starters	07-01905	---
OHK-0006 Kit, Brush Assembly, 24V pos. fits all 24 volt starters	07-01906	---
OHK-0007 Kit, Brush Assembly, 24V neg fits all 24 volt starters	07-01907	---
OHK-0008 Kit, Brush Bracket & Spring fits all starters	07-01908	---
OHK-0009 Kit, Hardware, Starter, Lycoming	07-01909	---

ACCESSORIES

Description	Part No.	Price
2305002 Armature, 12V, Lycoming	07-01911	---
9301004-F 12/24V Starter Bearing OH Kit	07-01183	---
5301001 End Bell	07-01917	---
5401001 Shield Grease	07-01918	---
7801008 Washer, Wave	07-01920	---
9005001 Assembly, Flux Ring, Lycoming, Complete	07-01921	---

PLANE POWER LIGHTWEIGHT ALTERNATORS

PMA APPROVED ALTERNATOR REPLACEMENTS

Plane-Power Certified Alternators are PMA certified to replace any existing alternator in the aircraft and engine applications listed below. No STC paperwork required. All Plane-Power PMA alternators produce up to 70 amps. Your airframe/application may use only a portion of the available output as limited by the aircraft electrical system components and design. Every Plane-Power alternator is tested to exceed all quality and performance specifications. Plane-Power PowerFlex Voltage Regulators are also available separately.

Volts/Amps	Model	Brackets included	Part No.	Price
12/60	AL12-C60	Yes	07-00997	---
24/70	AL24-F60	No	07-00999	---
12/70	AL12-F60	No	07-00998	---
12/70	AL12-P70	No	07-01001	---
24/70	AL24-P70	No	07-01002	---
12/70	AL12-F60C	No	07-01256	---
24/70	AL24-F60C	No	07-01257	---
12/70	AL12-70	Yes	07-01258	---
24/28Volt, 70 Amp	AL24-FS60	No	07-01491	---
24/70	AL24-70	Yes	07-01259	---
28V/150A	C28-150	N/A	07-01838	---

American Champion	OEM P/N	Model #
7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	ALY-8420	AL12-P70
Beechcraft	OEM Part #	Model #
19A, B19, M19A, 23, A23-19, A23-24, B23, C23, A24, A24R, B24R, C24R	33-380009-1	AL12-F60
19A, B19, M19A, 23, A23-19, A23-24, B23, C23, A24, A24R, B24R, C24R	ALE-8105A / ALE-8406	AL12-P70
76 Duchess, 77 Skipper	ALY-8420	AL12-P70
76 Duchess	ALU-8421	AL24-P70
B19, C19, C24R	ALU-8421R	AL24-P70
Cessna	**OEM P/N**	**Model #**
177, 177A, 177B	C611501-0101	AL12-F60
172I, K, L, M, N, P, 177, 177A, 177B, 177RG	C611501-0102	AL12-F60
P206A, P206B, P206C, P206D, P206E, U206, U206A, U206B, U206C, U206D, U206E, TP206A, TP206B, TP206C, TP206D, TP206E, TU206B, TU206C, TU206E, 207, T207, 210B, 210C, 210D, 210E, 210F, T210F, T210G, T210H, T210J	C611501-0101	AL12-F60C
180H, 180J, 180K, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 185E, A185E, A185F, 188, P206C, U206C, U206D, U206E, U206F, U206G, TP206C, TU206B, TU206C, TU206E, TU206F, TU206G, 207, T207	C611501-0102	AL12-F60C
180H, 182G, 182H, 185D, 210E	0750217-1	AL12-F60C
188, A188, A188A, A188B, 210K, T210K, 210G, 210H	1570213-6	AL12-F60C
152, A152, 172M, 172N, 172P, 172Q, 172RG, 177B, 177RG, R182, TR182	C611503-0102	AL24-F60
180J, 180K, 182P, 182Q, 182R, T182, U206E, U206F, U206G, TU206E, TU206F, TU206G, 207, T207, 210K, 210L, 210M, 210N, 210R, P210N, P210R, T210K, T210L, T210M, T210N, T210R, A185F, 207A, T207A	C611503-0102	AL24-F60C
188, 188A, 188B, A188, A188A, A188B, T188C, 207, T207	1570213-7	AL24-F60C
172R, 172S, 182S*, 182T*, T182T*	9910591-5	AL24-FS60
*S/N182001(1997) through 18281197(2004)	9910591-11	----

Commander	OEM P/N	Model #
112, 112B, 112TC, 112TCA, 114, 114A, 114B, 114TC	LW14316	AL12-P70
Twin Commander Aircraft Corporation	**OEM P/N**	**Model #**
500-S	78314	AL24-P70
Diamond Aircraft Industries GmbH	**OEM P/N**	**Model #**
DA-40	ALU-8421LS	AL24-70*
Grumman (Gulfstream, Tiger)	**OEM P/N**	**Model #**
AA-1, AA-1A, AA-1B, AA-1C	ALE-6420 / ALY-6420 LW-14310	AL12-P70
AA-5, AA-5A, AA-5B, AG-5B, GA-7	DOFF-10300J	AL12-F60
AG-5B	ALU8421LS	AL24-P70
Mooney	**OEM P/N**	**Model #**
M20C, M20E, M20F, M20G, M20J	ALY-8420 / ALX-8403	AL12-P70
M20J	ALU6421LS	AL24-P70
M20M (Single alternator installations only)	ES-4009LS	AL24-P70
Piper (Without Airconditioning)	**OEM P/N**	**Model #**
PA-44-180, PA-44-180T	751 346	AL12-P70
PA-28-151, PA-32R-301 (SP), PA-32-301T, PA-32R, 301(HP), PA-32R-301T (SP), PA-32-301, PA-34-200, PA-38-112	551-984	AL12-P70
PA-24-260	ALX8403	AL12-70
PA-23-235, PA-23-250	ALX8403	AL12-P70
PA-23-235, PA-23-250	ALU-8403	AL24-P70
PA-44-180, PA-44-180T	ALX8421LS	AL12-P70
PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-180, PA-28-235, PA-28R-180, PA-28R-200, PA-32-260, PA-32-300, PA-32R-300	69670-00	----
(60 amp)	AL12-C60	----
PA-28-140, PA-28-151, PA-28-161, PA-28-180, PA-28-235, PA-28R-200, PA-32-300, PA-32R-300	69670-03	----
(60 amp)	AL12-C60	----
PA-28-151, PA-28-161, PA-28-181, PA-28-236, PA-28R-201, PA-28RT-201, PA-32-300, PA-32R-300, PA-32RT-300, PA-32RT-300T	69670-04	----
(60 amp)	AL12-C60	----
Vulcanair, S.P.A	**OEM P/N**	**Model #**
P68, P68B, P68C, P68C-TC, P68 "Observer", P68TC "Observer", P68 "Observer 2"	ALU-8421LS	AL24-P70

For Lycoming engines 235, 320, 360, 540, 720 and Superior engines O-360, IO-360, Plane-Power alternators AL12-P70, AL12-70*, and AL24-70* replace Lycoming and Superior certified 70amp alternators: LW14300, LW14302, LW14308, LW14310, LW14316, LW14319, LW14322, LW14324. *Comes with all new Plane-Power mounting brackets and hardware.

PLANE POWER LIGHTWEIGHT ALTERNATORS

PLANE POWER LIGHTWEIGHT C14-100 ALTERNATOR

The Plane Power alternator can produce all 100 amps if proper size wiring, ammeter and circuit breaker are installed and approved. PMA replacement, requires only a log book entry.
Aircraft electrical system will be limited by existing wiring and output circuit breaker.
Warranty: 2-Year Limited

Specifications: • 14 volt, 100 amp alternator. Replaces Hartzell/Powerup, Crittenden, TCM 50 – 100amp alternators on TCM 520 and 550 Series engines. • Weight: 13 Pounds .....P/N 07-01948 .....

PMA CONTINENTAL ALTERNATOR REPLACEMENT

These alternator kits are FAA PMA Certified to replace the vast majority of popular general aviation alternators. They include everything you need to replace your current alternator using the existing belt and brackets. Where required, the kit will also include brackets, spacers and hardware.
An alternative to high-priced, marginally-performing, rebuilt used replacement aircraft alternators. These Plane-Power alternators are the product of years of research, development and intensive testing. Each component has been engineered, developed, tested and re-tested exclusively for use in general aviation aircraft .....P/N 07-01838 ..... ---

PLANE POWER LIGHTWEIGHT ALTERNATOR KITS FOR EXPERIMENTAL AIRCRAFT

Note: Core charge now applies on Plane Power Alternator kits
The AL12-EI60 kit comes with an ultra compact lightweight AIRCRAFT alternator with an exclusive internal crowbar overvoltage protection circuit. The alternator is fully pilot controllable through unique internal wiring. The dual internal fans are designed for aircraft engine rotation for maximum cooling. The AL12-EI60 kit includes the tension arm, mounting brackets, and all required AN hardware.
Also available 70 amp version only 2 additional pounds.
Boss Mount
Attaches to a bracket mounted to the side of the engine
Case Mount
Mounts to 3 bolts that hold case halves together.

Description	Part No.	Price
AL12-EI60/B (Boss Mount)	07-01313	---
AL12-EI60/C (Case Mount)	07-01313-1	---

AL12-EI70/B HARTZELL PLANE POWER ALTERNATOR

The AL12-EI70 kit includes a high output AIRCRAFT alternator with an exclusive internal crowbar over-voltage protection circuit. The alternator is fully pilot controllable through unique internal wring. The dual internal fans are designed for aircraft engine rotation for maximum cooling. The AL12-EI70 kit includes the tension arm, mounting brackets, all required AN hardware, and V-Belt for Superior and most Lycoming engines with a 9-3/4 engine pulley.

Description	Part No.	Price
AL12-EI70/B (Boss Mount)	07-01414	---
AL12-EI70/C (Case Mount)	07-01414-1	---

AL12-EE70/B HARTZELL PLANE POWER ALTERNATOR

AL12-EE70/B Hartzell Plane Power Alternator.
Note: Regulators are not included with the alternators. They must be purchased separately. Please see the "Accessories" tab for the associated regulators.
These are complete kits which include everything you need to add an alternator to your experimental aircraft engine including not only the alternator, but also all new brackets, spacers, mounting hardware and belt.

Volts/ Amps	Model	Replaces	Part No.	Price
12/14 volt 70 amp	AL12-EE70/b	(BOSS MOUNT) externally regulated alternator. Kit includes pulley, brackets, mounting hardware & belt for EXPERIMENTAL aircraft applications (Regulator not Included)	07-01005	---
12/28 volt 70 amp	AL24-EE70/b		07-01006	---
12/14 volt 70 amp	AL12-EE70/c	(CASE MOUNT) externally regulated alt aernator Kit includes pulley, brackets, mounting hardware & belt for EXPERIMENTAL aircraft applications (Regulator not Included)	07-01005-1	---
24/28 volt 70 amp	AL24-EE70/c		07-01006-1	---
14.2 volt 30 amp	FS1-14B	Primary alternator for aircraft not requiring more than 30 amps at cruise RPM and little or no output below approx. 1200 RPM. It mounts on an unused AND 20000 pad (vacuum pad) on both Lycoming and Continental engines (Internal Regulator)	07-01883	---

PLANE POWER EXPERIMENTAL 50 AMP (12/14V) GEAR DRIVEN ALTERNATOR EX14-50

12/14 volt, 50 amp, internally regulated alternator with built-in Over-Voltage protection for use in EXPERIMENTAL Aircraft with small block Continental Engines. Includes Pre-Wired Enable Plug and Gaskets.
Features: • For small block Continental engines • Internal voltage regualtor • Exclusive built-In crowbar over-voltage protection • Fully pilot controllable through internal wiring • Dual internal fans designed for aircraft engine rotation for maximum cooling • Fits** C75, C85, C90, C125, C145, E165, E185, E225, IO-240, O-200, and O-300 applications (**with accessory case drive gear) • Pre-wired enable/field plug included. **Note**: • Overall Diameter: 4.4" • Overall Length: 6" .....P/N 07-01268 ..... ---

CORE CHARGES APPLY TO ALL NEW AND OVERHAULED HARTZELL UNITS.

PLANE POWER CONVERSION KITS

BELT DRIVEN GENERATOR CONVERSIONS

Aircraft Parts & Development	Plane-Power
Intermountain (Callair) A, A-2, A-4, A-5, A-5T, A-9, A-9B	SAL12-70
Alexandria Aircraft, L.L.C.	
Bellanca 14-19-2, 14-19-3, 14-19-3A	SAL12-70C
Cessna Aircraft Co.	
180, 180A, 180B, 180C, 180D, 180E, 180F, 180G,	SAL12-70C
182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H,	SAL12-70C
185, 185A, 185B, 185C, 185D	SAL12-70C
210, 210A, 210-5 (205), 210-5A (205A)	SAL12-70C
206, P206	SAL12-70C
Cessna 310, 310A, 310B, 310C*, 310D*, 310E*, 310F*, 310G, 310H, 310I, 310J, 310K *10-9006 kit may be required for installation. View installation instructions online for further information	TAL24-70C
Fred Garcia	
Camair 480	TAL24-70C
FS 2003 Corporation (Piper)	
Piper PA-12, PA-12S	SAL12-70
Hawker Beechcraft Co.	
Beech H35, J35, K35, M35, N35, P35, 35-33, 35-A33, 35-B33, 35-C33	SAL12-70C
23	SAL12-70
Beech Baron 95-55, 95-A55, 95-B55, 95-B55A	TAL24-70C
Beech Travelair 95, B95, B95A, D95A, E95	TAL24-70
Helio Aircraft, LLC	
Helio H-250	SAL12-70
Helio 500	TAL12-70
KWAD Co.	
Super-V	TAL12-70
Latinoamerican De Aviacion	
Piper PA-25, PA-25-235, PA-35-260	SAL12-70
Lockheed Aircraft Corp.	
402-2	SAL12-70C
Mooney Airplane Company	
M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G	SAL12-70
Piper Aircraft, Inc.	
Piper PA-16, PA-16S	SAL12-70
Piper PA-18, PA-18S, PA-18 “105” (SPECIAL), PA-19S	SAL12-70
Piper PA-18A, PA-18 “125” (Army L-21A), PA18S “125”, PA-18AS “125”, PA-18 “135” (Army L-21B), PA18A “135”, PA-18S “135”, PA-18AS “135”, PA-18 “150”, PA-18A “150”, PA18S “150”, PA-18AS ‘150”, PA-19 (Army L-18C), PA-20, PA-20S, PA-20-“135”, PA-22, PA-22-135, PA-22S-135, PA-22-150, PA-22S-150, PA-22-160, PA-22S-160 (When modified with FAA Approved rear mounted oil cooler)	SAL12-70
Piper PA-20-“115”, PA-205-“115”	SAL12-70
Piper PA-22-108	SAL12-70
Piper PA-24, PA-24-250, PA-24-260, PA-24-400	SAL12-70
Piper PA-28-140, PA-28-150, PA-28-160, PA-28-180, PA-28-235, PA-28S-160, PA-28S-180	SAL12-70
Piper PA-23, PA-23-160, PA-23-235, PA-23-250, PA-E23-250	TAL12-70
Piper PA -30	TAL12-70
Prop-Jets Inc.	
Meyers 200, 200A, 200B, 200C, 200D	SAL12-70C
Raytheon Aircraft Co.	
35, A35, B35, C35, D35, E35, F35, G35, 35R, modified by STC conversion to O-470 or IO-470 engine.	SAL12-70C
Revo, Inc.	
Colonial C1, Colonial C2, Lake LA-4, LA-4A, LA-4P	SAL12-70
Sierra Hotel Aero, Inc.	
Navion D, E, F,G, H, and Navion (L-17A), Navion A (L-17-B & L-17C), B modified by STC conversion to O-470 or IO-470	SAL12-70C
Twin Commander Aircraft Corporation	
500A	TAL24-70C
500, 500-B, 500-U	TAL24-70

GEAR DRIVEN GENERATOR CONVERSIONS

Ad Aerospace	Plane-Power
T-211	ER14-50
Aerodifusion	
D-1190S	ER14-50
Aeromca (Burl A. Rogers)	
15AC, S15AC	ER14-50
Aircraft Parts & Development	
A-3	ER14-50
All American	
10A	ER14-50
American Champion	
402, 7EC, 7ECA, 7FC, 7JC, S7EC	ER14-50
Hawker Beechcraft	
35, 35R, 45 (YT-34), A35, B35, C35*, D35*, E35*,F35*, G35*, (*When equipped with E225-8 Engine)	ER14-50
Cessna	
120, 140, 140A, 150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150M, 170, 170A, 170B, 172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H	ER14-50
Commonwealth Aircraft	
185	ER14-50
Edward Scott Kerns	
Trojan A-2	ER14-50
FA 2001	
J5A (Army L-4F) (when equipped with C75-12 Engine)	ER14-50
Swift Museum Foundation	
GC-1A, GC-1B	ER14-50
Goodyear	
GA-22A	ER14-50
Helio Aircraft	
15A (when equipped with C145-2 Engine)	ER14-50
Avion Jodel	
150, D-1190, DR-1050 ER14-50	ER14-50
The Don Luscombe Aviation History Foundation	
8E, 8F, T-8F	ER14-50
Maule Aircraft Company	
BEE DEE M-4, M-4, M-4C, M-14S, M4T, M-4-210, C, S, T, M-5-210C	ER14-50
Thomas H. McClish	
B85C	ER14-50
Micco Aircraft Company	
MAC-125C. MC-145	ER14-50
S.O.C.A.T.A	
(Ralley) Series 100S, Rallye Series MS 880B, Rallye Series	ER14-50
Navion	
(Army L-4),(Army L-17B and L-17C)	ER14-50
Piper	
J3C-35* (Army L-4), L-4A*, L-4B (Navy NE-1*), L-4H*, L-4J*(Navy NE-2*)), J3C-65S*, -4A**, J4E* (Army L-4E), PA-18, PA-19, PA-18S***, PA-19S*** (When equipped with (*C75-12) (**C85-12) (***C90-12F) Engine) PA-28-201T, PA-28R-201T, PA-28RT-201T, PA-34-200T, PA-34-220T	ER14-50
Quartz Mountain Aerospace	
11A	ER14-50
Superior	
(Culver) V, (Culver) V-2	ER14-50
Taylorcraft Aviation	
BC-12D-4-85, BCS12D-4-85	ER14-50
Univair Aircraft	
(Alon) A-2, (Alon) A-2A, (Forney) F-1, (Forney) F-1A, (Mooney) M10, ERCO 415-C*, ERCO 415-CD*, ERCo 415-D, ERCO E, ERCO G, (*When equipped with C75-12, C75-12F, C85-12 or C85-12F Engine)	ER14-50

CORE CHARGES APPLY TO ALL NEW AND OVERHAULED HARTZELL UNITS.

PLANE POWER CONVERSIONS & REGULATORS

PLANE-POWER LIGHTWEIGHT STC GENERATOR TO ALTERNATOR CONVERSIONS

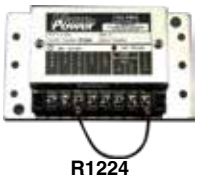
BELT DRIVEN - Include hardware and brackets to replace your existing generator and regulator. Plane-Power STC Belt Driven Generator Conversions allow for increasing the size of the output wire and circuit breaker to allow for a maximum of 70 amps of output. All Plane-Power alternators feature dual internal fans specially designed for aircraft engine rotation to maximize cooling. Models available for both 12 and 24 volt as well as for both Lycoming and Continental installations.

Model	Output	Voltage	Part No.	Price
SAL12-70	70 (max)	12	07-01301	---
SAL12-70C	70 (max)	12	07-01299	---
TAL12-70	70 (max)	12	07-01302	---

Model	Output	Voltage	Part No.	Price
TAL24-70	70 (max)	24	07-01304	---
TAL24-70C	70 (max)	24	07-01303	---

GEAR DRIVEN - Plane-Power Gear Driven Generator to Alternator Conversion Kits replace your existing generator with an alternator which will provide higher output at lower rpm and allow for increasing the size of the output wire and circuit breaker to allow for a maximum of 50 amps of output. The ER14-50 uses your existing gear assembly. The entire gear assembly (ER14-GR) may be purchased separately. Some older generators have larger diameter (5/8") shafts and require the gear support kit (G-Pack). Please call for details. The ER14-50 weighs 6.9 lbs and comes with a pre-wired enable plug, 50 amp gear driven alternator, alternator inoperative lamp, Seals and R1224B Power-Flex voltage regulator. Output: 50 (max) 12V ..... P/N 07-01321 ..... ---

PLANE-POWER ALTERNATOR VOLTAGE REGULATORS



R1224

Plane-Power Power-Flex Voltage Regulators are FAA-PMA Approved. Available for most certified aircraft. Solid-state voltage regulators with over-voltage protection, field short (over current) protection, and reverse battery protection. Plane-Power Power-Flex voltage regulators also support precision load sharing for twin applications and an alternator inoperative lamp. Power-Flex voltage regulators are designed to be setup in the field for 14 or 24 volt operation by a simple placement of the two internal jumpers. For smaller mounting placement on the R1224, installation aid 12-1021 may be used.

R1224B

Model	Description	Voltage	Part No.	Price
R1224	Replaces many Ford, Electrodelta, Prestolite, Interav, Wico, and FVR voltage regulators.	14V	07-01305	---
R1224S-28	Replaces many Ford, Electrodelta, Prestolite, Interav, Wico, and FVR voltage regulators.	28V	07-20521	---
R1224B	Replaces voltage regulators on twin Cessnas, Beechcraft, and Vulcanair .	14V	07-01306	---
12-1021	Adapter Plate - Visit our website for a list of common aircraft in need of this adapter.	---	07-03532	---

AMBER LIGHT INDICATORS FOR THE HARTZELL ER14-50

14V ..... P/N 08-14616 ..... ---
28V ..... P/N 08-14617 ..... ---

GEAR ADAPTER KIT G-PACK

Required for use with the existing drive gear when the generator shaft is over 0.5" in diameter. Uses existing gear from replaced generator. ..... P/N 07-01348 ..... ---

PLANE POWER ALTERNATORS ONLY - WITHOUT MOUNTING KIT

Plane-Power alternators are FAA PMA certified to replace the vast majority of popular general aviation alternators. Plane-Power also manufactures an alternator kit for experimental aircraft applications that comes complete with required brackets, spacers, internal cooling, voltage regulation (choice of internal or external), and over-voltage protection. Plane-Power alternators are warrantied for 2-years against component failures.

Volts/ Amps	Model	Part No.	Price
12/70	AL12-C60, SAL12-70, TAL12-70	07-17756	---
12/70	AL12-F60	07-17757	---
12/70	AL12-F60C, SAL12-70C	07-17758	---
12/70	AL12-EI60-L, AL12-EI60/B, AL12-EI60/C	07-18016	---
24/70	AL24-F60	07-17760	---
24/70	AL24-FS60	07-17761	---
24/70	AL24-F60C, TAL24-70C	07-17762	---
24/70	AL12-70, AL12-P70	07-18054	---
12/50	ER14-50	07-19404	---

PLANE POWER REBUILT FLX ALTERNATOR

Description	Part Number	---
ALT-FLX-1	07-21649	---
ALT-FLX-2	07-19188	---
ALT-FLX-3	07-19189	---
ALT-FLX-4	07-19190	---
ALT-FLX-5	07-19191	---
ALT-FLX-6	07-21650	---
ALT-FLX-7	07-19193	---
ALT-FLX-8	07-19194	---
ALT-FLX-9	07-19195	---

PLANE POWER C28-150 ALTERNATORS

- Dual cooling fans ensure effective cooling and unmatched durability even in low engine RPM/high output installations.
- Compact size simplifies installation and ongoing inspections.
- FAA-PMA approved, no STC required for installation.

Plane-Power C28-150 line of FAA-PMA certified, 28V/150 Amp high output, gear-driven alternators.

These factory-rebuilt units will carry the same two-year warranty offered on every new Plane-Power alternator. The Plane-Power C28-150 gear-driven alternators deliver more continuous power at lower engine RPMs than any other aircraft alternator. Aircraft owners with high electrical demand during ground operations; such as those with sophisticated avionics suites or electrically-driven air conditioning systems, will appreciate the abundant electrical power they will get at idle with these Plane-Power alternators.

C28-150S-FR without Debris Shield.....P/N 07-18128 ..... ---

PLANE POWER C14-100 ALTERNATORS

- Dual cooling fans ensure effective cooling and unmatched durability even in low engine RPM/high output installations.
- Compact size simplifies installation and ongoing inspections.
- FAA-PMA approved, no STC required for installation.

Plane-Power C14-100 line of FAA-PMA certified, 24V/150 Amp high output, gear-driven alternators. These factory-rebuilt units will carry the same two-year warranty offered on every new Plane-Power alternator. The Plane-Power C14-100 gear-driven alternators deliver more continuous power at lower engine RPMs than any other aircraft alternator. Aircraft owners with high electrical demand during ground operations; such as those with sophisticated avionics suites or electrically-driven air conditioning systems, will appreciate the abundant electrical power they will get at idle with these Plane-Power alternators.

C14-100S-FR without Debris Shield.....P/N 07-18126 ..... ---

CORE CHARGES APPLY TO ALL NEW AND OVERHAULED HARTZELL UNITS.

AEROTECH OVERHAULED ALTERNATORS

Aerotech of Louisville specializes in the overhaul, repair and distribution of general, corporate and military aviation charging and starting system accessories.

AEROTECH CESSNA OVERHAULED ALTERNATORS

Mfr. P/N	Volts	Amps	Drive	Part No.	Price
9910591-1	28V	60A	Belt	08-14718	---
9910591-7	28V	60A	Belt	08-14719	---
9910591-11	28V	60A	Belt	08-14720	---
9910591-12	28V	60A	Belt	08-14721	---
9910592-1	28V	95A	Belt	08-14723	---
9910592-2	28V	95A	Belt	08-14725	---

AEROTECH TCM OVERHAULED ALTERNATORS

Mfr. P/N	Volts	Amps	Drive	Part No.	Price
642055	24V	60A	Gear	08-14726	---
646491	24V	100A	Gear	08-14729	---
646842	24V	100A	Gear	08-14730	---
649283	24V	70A	Belt	08-14731	---
649304	24V	100A	Gear	08-14732	---
653344	24V	70A	Gear	08-14733	---

AEROTECH CHRYSLER OVERHAULED ALTERNATORS

Mfr. P/N	Volts	Amps	Drive	Part No.	Price
2098615	12V	37A	Belt	08-14734	---
2098640	12V	37A	Belt	08-14735	---
2642197	12V	60A	Belt	08-14738	---
2642210	12V	60A	Belt	08-14739	---
2642995	12V	37A	Belt	08-14740	---
2642996	12V	37A	Belt	08-14741	---
3656623	12V	40A	Belt	08-14742	---
2642997	12V	60A	Belt	08-07034	---

AEROTECH DELCO REMY OVERHAULED ALTERNATORS

Mfr. P/N	Volts	Amps	Drive	Part No.	Price
1100652	12V	52A	Gear	08-14743	---
1100660	12V	70A	Belt	08-14744	---
1100667	12V	70A	Gear	08-14745	---
1100715	12V	70A	Gear	08-14746	---
1100716	12V	52A	Gear	08-14747	---
1100717	12V	70A	Belt	08-14748	---
1100718	24V	50A	Belt	08-14749	---
1100723	24V	50A	Gear	08-14751	---
1100747	24V	50A	Belt	08-14752	---
1100753	24V	65A	Gear	08-14753	---
1100792	24V	65A	Belt	08-14754	---

AEROTECH ELECTROSYSTEMS OVERHAULED ALTERNATORS

Mfr. P/N	Volts	Amps	Drive	Part No.	Price
ALU-8539LS	28V	75A	Belt	08-14756	---
ALY-8523R	12V	60A	Belt	08-14757	---
ALZ-8523R	12V	50A	Belt	08-14761	---

AEROTECH FORD OVERHAULED ALTERNATORS

Mfr. P/N	Volts	Amps	Drive	Part No.	Price
C6115030103	28V	60A	Belt	08-14763	---
D7FF10300AA	28V	95A	Belt	08-14764	---
DOFF10300A	28V	60A	Belt	08-14765	---
DOFF10300C	28V	60A	Gear	07-19036	---
DOFF10300F	14V	60A	Gear	08-14768	---
DOFF10300B	28V	60A	Belt	08-16402	---
DOFF10300J	14V	60A	Belt	08-14769	---

AEROTECH PRESTOLITE OVERHAULED ALTERNATORS

Mfr. P/N	Volts	Amps	Drive	Part No.	Price
ALV-6403	24V	100A	Belt	08-14770	---
ALV-8402	24V	100A	Belt	08-14771	---
ALV-9401	24V	100A	Gear	08-14773	---
ALV-9405	24V	100A	Gear	08-14775	---
ALV-9406	24V	100A	Gear	08-14776	---
ALV-9510	24V	100A	Gear	08-14779	---

NOTE:
Exchange prices are shown.
Core charges apply to all units.

POWERFLITE STARTERS

The Tempest PowerFlite series of aviation engine starters represents a new state-of-the-art energy efficient design providing reduced current draw and long life. The PowerFlite starter mounts directly to existing TCM engines and is available in both 12 and 24 volt configurations. Tempest starter part numbers PL13459 (12v) and PL13484 (24v) are eligible on TCM engine models O-300-D, GO-300-D, IO-346, IO-360, L/TSIO-360, O-470, IO-470, TSIO-470, IO-520, TSIO-520, GTSIO-520, IO-550, TSIO-550 and TSIOL-550.

Powerflite Starter 12V New .....P/N 08-07284 ..... ---
Powerflite Starter 24V New .....P/N 08-07283 ..... ---

See www.aircraftspruce.com for parts and accessories.

EP

AEROTECH OVERHAULED GENERATORS/STARTERS

Delco Generators are overhauled using only FAA approved components. In stock or have the capability to overhaul almost every 12 or 24 volt Declo-Remy Aircraft Generator. Each unit is tested to manufacturer's original operating specs before it leaves our facility.
Shipments will include domestic 8130 form.
Attention: Should a core unit not be available in stock with factory; at time of order customer must ship in core to be overhauled.
Ship to: 225 Airport Circle, Corona Ca. 92880

AEROTECH DELCO OVERHAULED GENERATORS

Model No.	Volts	Amps	Drive	Part No.	Price
1101881	12V	13A	Gear	08-14780	---
1101884	24V	15A	Belt	08-14781	---
1101885	12V	36A	Gear	08-14782	---
1101886	12V	26A	Gear	08-14783	---
1101887	12V	35A	Gear	08-14784	---
1101889	24V	15A	Belt	08-14785	---
1101890	12V	20A	Gear	08-14786	---
1101893	24V	15A	Belt	08-14787	---
1101895	12V	50A	Belt	08-14788	---
1101896	12V	20A	Belt	08-14789	---
1101903	24V	15A	Belt	08-14790	---
1101907	24V	25A	Belt	08-14791	---
1101908	12V	50A	Gear	08-14792	---
1101909	12V	50A	Belt	08-14793	---
1101916	24V	15A	Belt	08-14794	---
1101919	12V	20A	Gear	08-14795	---
1101920	24V	25A	Belt	08-14796	---
1101921	24V	15A	Belt	08-14797	---
1101923	15V	50A	Belt	08-14798	---
1105052	24V	40A	Belt	08-14799	---

AEROTECH PRESTOLITE OVERHAULED STARTERS

Model No.	Voltage	Part No.	Price
MCL-6502	12	08-14838	---
MCL-6503	12	08-14839	---
MHB-4001	24	08-14841	---
MHB-4002	24	08-14842	---
MHB-4003	24	08-14843	---
MHB-4015	24	08-14844	---
MHB-4016	24	08-16404	---
MHB-4019A	24	08-14845	---
MHB-4019R	24	08-14846	---
MHJ-4002	24	08-14848	---
MZ-4203	12	08-14849	---
MZ-4205	12	08-14851	---
MZ-4206/4222	12	08-14852	---
MZ-4207	12	08-14853	---
MZ-4214	12	08-16431	---
MZ-4216	12	08-14854	---
MZ-4217	12	08-14855	---
MZ-4218	12	08-14856	---
MZ-4223	12	08-14858	---

DELCO OVERHAULED STARTERS

Delco ID	Voltage	Part No.	Price
1108234	24	07-00131	---
1108249	12	07-00132	---
1109514	12	07-00142	---
1109519	12	07-00145	---
1108234	24	08-14802	---
1109504	12	08-14803	---
1109505	24	08-14804	---
1109506	12	08-14805	---
1109509	24	08-14806	---
1109511	12	08-14807	---
1109512	12	08-14808	---
1109517	24	08-14809	---
1109518	24	08-14810	---
1109651	12	08-14811	---
1109657	12	08-14812	---
1109658	12	08-14813	---
1109660	12	08-14814	---
1109665	24	08-14816	---
1109668	12	08-14817	---
1109669	24	08-14818	---
1109673	12	08-14819	---
1109675	24	08-14820	---
1109677	12	08-14821	---
1109678	12	08-14822	---
1109679	12	08-14823	---
1109680	24	08-14824	---
1109684	12	08-14826	---
1109687	24	08-14827	---
1109688	12	08-14828	---
1109689	12	08-14829	---
1109690	24	08-14830	---
1109694	12	08-14831	---
1109694	12	07-24481	---
1109695	12	08-14832	---
1109696	24	08-14833	---
1109768	12	08-14834	---
1109909	24	08-14835	---
1109926	12	08-14836	---
1113471	12	08-14837	---

NOTE:
Exchange prices are shown. Core charges apply to all units.

FALCON OVERHAULED ALTERNATORS

FALCON ES4000 SERIES OVERHAULED ALTERNATORS

Factory Overhauled ES4000 Series Alternators.

Model Number	Volts/Amps	Description	Part No.	Price
ES4000	15V/60A	Belt Driven	07-19049	---
ES4000LS	15V/60A	Belt Driven	07-19050	---
ES4005	28V/60A	Belt Driven	07-19051	---
ES4005-2	28V/60A	Belt Driven	07-19052	---
ES4007	28V/60A	Belt Driven	07-19053	---
ES4009	28V/70A	Belt Driven	07-19054	---
ES4009LS	28V/70A	Belt Driven	07-19055	---
ES4013	28V/80A	Belt Driven	07-19056	---
ES4013LS	28V/80A	Belt Driven	07-19057	---
ES4017	15V/80A	Belt Driven	07-19058	---
ES4018	28V/70A	Belt Driven	07-19059	---
ES4018LS	28V/70A	Belt Driven	07-19060	---
ES4021	28V/70A	Belt Driven	07-19061	---
ES4023	28V/80A	Belt Driven	07-19062	---
ES4024L	28V/85A	Belt Driven	07-19064	---
ES4024LP	28V/85A	Belt Driven	07-19065	---
ES4030	28V/70A	Belt Driven	07-19066	---
ES4031	28V/85A	Belt Driven	07-19067	---
ES4040	15V/85A	Belt Driven	07-19068	---
ES4003	15V/95A	Belt Driven	07-19069	---
ES4003LS	15V/95A	Belt Driven	07-19070	---
ES4011	28V/95A	Belt Driven	07-19071	---
ES4011LS	28V/95A	Belt Driven	07-19072	---
ES4011-1	28V/95A	Belt Driven	07-19073	---
ES4011-1LS	28V/95A	Belt Driven	07-19074	---
ES4014	28V/90A	Belt Driven	07-19075	---
ES4016	12V/90A	Belt Driven	07-19076	---
ES4019	28V/130A	Belt Driven	07-19077	---
ES4019LS	28V/130A	Belt Driven	07-19078	---
ES4019-2LS	28V/130A	Belt Driven	07-19079	---
ES4022	12V/130A	Belt Driven	07-19080	---
ES4001	15V/60A	Gear Driven	07-19081	---
ES4002	15V/80A	Gear Driven	07-19082	---
ES4004	28V/38A	Gear Driven	07-19083	---
ES4006	28V/60A	Gear Driven	07-19084	---
ES4008	28V/70A	Gear Driven	07-19085	---
ES4028	15V/85A	Gear Driven	07-19086	---
ES4029	28V/70A	Gear Driven	07-19087	---

FALCON OVERHAULED STARTERS

Falcon Overhauled Starters.

Model Number	Description	Part No.	Price
ES646238-1	12V	07-19095	---
ES646238-3	12V	07-19097	---
MCL-6502	12V	07-19101	---
MCL-6503	12V	07-19102	---
MZ-4203	12V	07-19127	---
MZ-4204	12V	07-19128	---
MZ-4205	12V	07-19129	---
MZ-4206	12V	07-19130	---
MZ-4207	12V	07-19131	---
MZ-4208	12V	07-19132	---
MZ-4214	12V	07-19133	---
MZ-4216	12V	07-19134	---
MZ-4217	12V	07-19135	---
MZ-4218	12V	07-19136	---
MZ-4219	12V	07-19137	---
MZ-4220	12V	07-19138	---
MZ-4221	12V	07-19139	---
MZ-4222	12V	07-19140	---
MZ-4223	12V	07-19141	---
MZ-4224	12V	07-19142	---
MZ-4225	12V	07-19143	---
MZ-4226	12V	07-19144	---
ES646275	24V	07-19098	---
MHB-4001	24V	07-19103	---
MHB-4002	24V	07-19104	---
MHB-4003	24V	07-19105	---
MHB-4006	24V	07-19108	---
MHB-4008	24V	07-19109	---
MHB-4009	24V	07-19110	---
MHB-4010	24V	07-19111	---
MHB-4011	24V	07-19112	---
MHB-4012	24V	07-19113	---
MHB-4013	24V	07-19114	---
MHB-4014	24V	07-19115	---
MHB-4016	24V	07-19116	---
MHB-4018	24V	07-19118	---
MHB-4019	24V	07-19119	---
MHB-4019A	24V	07-19120	---
MHJ-4002	24V	07-19122	---
MHJ-4005	24V	07-19125	---
MMU-4001	24V	07-19126	---

NOTE:
Core charges apply to all overhauled units.

FALCON AND FREEDOM ALTERNATORS

FORD OVERHAULED ALTERNATORS

Factory Overhauled Ford Alternators.

Model Number	Description	Part No.	Price
DOFF10300M	15V/60A	07-19042	---
DOFF10300G	28V/38A	07-19039	---
C6115050102	28V/95A	07-19028	---
D7FF10300AA	28V/95A	07-19029	---
DOFF10300A	28V/95A	07-19033	---
DOFF10300C	28V/95A	07-19035	---
DOFF10300D	28V/95A	07-19036	---

FALCON OVERHAULED ALTERNATORS

Falcon Overhauled Alternators.

Model Number	Volts/Amps	Description	Part No.	Price
ALY-6520	12V/60A	--	07-19171	---
ALY-8523	12V/60A	--	07-19177	---
ALX-6523	12V/70A	--	07-19165	---
ALX-8523	12V/70A	--	07-19167	---
ALU-9522	24V/70A	--	07-19153	---

FALCON TCM OVERHAULED ALTERNATORS

Factory Overhauled TCM Alternators.

Model Number	Description	Part No.	Price
642055	24V/60A	07-19043	---
646843	24V/60A	07-19047	---
646491	24V/100A	07-19046	---

FALCON OVERHAUL CHRYSLER ALTERNATORS

Overhaul Chrysler alternator Pulley Driven.

Model Number	Description	Part No.	Price
3656624R	12V/60A	07-06401	---
3656623R	12V/41A BD	08-07035	---

FALCON TCM OVERHAULED GENERATORS

Falcon TCM Overhauled Starters.

Model Number	Description	Part No.	Price
646238	12V	07-19088	---

EP

NOTE:
Core charges apply to all overhauled units.

FALCON CHRYSLER ALTERNATORS

Chrysler series 12 volt alternators are available in 37, 40 and 60 amp versions. Common part numbers are 2642996, 2642997, 3656623, 3656624, and 4111810.

Model No.	Description	Part Number	Price
4111810	12V/60A B	08-10689	---

FREEDOM AVIATION STANDBY ALTERNATOR

Freedom Aviation's standby alternator system is for Cessna 182T/T182T/206H/T206H aircraft. More specifically, the system is for Cessna 182 and 206 aircraft equipped with the Garmin 1000 (NAV III) avionics package.
The standby alternator system consists of four major components:
1. Standby Alternator: A BC425-1 alternator from B&C Specialty Products is mounted to the accessory drive pad on the Cessna. This pad was formerly intended for a second vacuum pump. This alternator provides a continuous source of power up to 20 amps without loading the engine anymore than a vacuum pump.
2. Alternator Controller: The BC203-2D alternator controller from B&C Specialty Products performs the automatic switch over function of the system and serves as the system's voltage regulator. The controller also is where the Standby Alternator Master switch is connected to the "STBY ALT ON" annunciator.
3. Standby Alternator Master Switch: The STBY ALT master switch is added to the pilot's checklist and should be turned on when the aircraft is started.
4. Standby Alternator Light Indicator ("STBY ALT ON"): A STBY ALT ON light turns on when the primary alternator fails, indicating the standby alternator is carrying the electrical load.
The standby alternator system activates automatically. When the alternator controller senses the primary aircraft alternator has failed, the load is shifted automatically to the standby alternator. The STBY ALT ON light turns on and indicates the standby alternator system has been activated. In the event the load on the aircraft electrical system exceeds the capabilities of the standby alternator, the "STBY ALT ON" light flashes, warning the pilot to shed electrical load.

P/N 07-27256 ..... ---

B & C ALTERNATORS

B & C LIGHTWEIGHT ALTERNATORS

L-40 ALTERNATOR

The L-40 is a high-performance belt-driven 40 amp alternator for Lycoming engines. Designed to meet the rigorous demands of weight-sensitive homebuilt designs, without sacrificing reliability, the L-40 alternator features a precision-balanced rotor, sealed heavy-duty ball-bearings and 2 internal cooling fans. Weighs 6.1 lbs. and measures 3.9" (diameter) x 5.6" (length). Also includes mounting hardware, belt tension arm, and belt. Applicable to Lycoming O-235 through IO-720 engines.

L-40 Boss Mount (Wide Deck engine) .....P/N 07-06815 ..... ---
L-40 Case Mount (Narrow Deck engine), w/ B&C Starter
P/N 07-06810 ..... ---

L-40 requires an external voltage regulator – see BELOW

L-40 alternators require external regulators – use: P/N 07-06742 (LR3C) for 14V, P/N 07-06786 (LS1A) for 28V

B & C BC462-H ALTERNATOR

The high-performance spline-driven alternator from the company that pioneered the spline-driven alternator over 20 years ago! The BC462-H mounts on a standard AND20000-spec accessory pad, and offers robust performance with a rated output of 35 to 45 amps @ cruise RPM. Every BC462-H features a CNC machined billet aluminum mounting flange for superior durability, heavy-duty sealed ball bearings, two internal cooling fans, a precision dynamically-balanced rotor (a B&C quality essential), and a special "shear section" drive coupling. Suitable for 14 volt or 28 volt applications, the BC462-H is designed for aircraft-style external control, and may be used as either a Primary or a Standby Alternator, depending on the electrical system configuration (see note below). Includes mounting gasket and pre-wired field connector assembly. Weight: 6.75 lbs.

P/N 07-17985 ..... ---

Note: L-40, BC460-H, BC410-H, and BC462-H alternators require external regulators - use: P/N 07-06742 (LR3C) for 14V Primary, P/N 07-06786 (LS-1A) for 28V Primary, P/N 07-03461 (SB1B-14) for 14V Standby, and P/N 07-03462 (SB1B-28) for 28V Standby.

BC410-H ALTERNATOR

The BC410-H is the original high-performance spline-driven alternator that mounts on a standard vacuum pump accessory pad. It may be used either as a primary or a stand-by alternator for a nominal output of 20 to 30 amps, depending on engine RPM. Designed for many hours durable service, the BC410-H features a dynamically balanced rotor, heavy-duty sealed ball-bearings, 2 internal cooling fans, and a special "shear section" designed into the drive coupling. The BC410-H is externally-regulated, and may be used in either 14 and 28 volt homebuilt aircraft using our LR3C-14 (14V), LS-1A (28V), or SB1B (14V or 28V) Controllers. Measures 4.6" (diameter) and 6.0" (length), and weighs 5.75lbs. The BC410-H will clear a stock tachometer cable on Lycoming engines, as well as B&C Oil Filter Adapters ... P/N 07-06771 ..... ---

LR3C AND LS-1A LINEAR CONTROLLERS (REGULATORS)

P/N 07-06742

The LR3C and LS-1A are more than your typical regulators; more accurately, they are alternator controllers. Each device combines 3 essential functions in one physical container—linear ("quiet") regulation, solid-state over-voltage protection, and low-voltage monitoring and warning. This makes possible sophisticated, space-saving, and cost-effective alternator control for homebuilt aircraft, while also improving safety of flight. The LR3C-14 may be used with 14 volt externally regulated alternators, while the LR3C-28 may be used with OEM-type, 28 volt externally regulated alternators. The LS-1A permits the use of B&C alternators in a 28 volt electrical system. The LR3C and the LS-1A weigh approximately 9 ounces each, and are intended for circuit type "B" (one field lead grounded directly) alternator systems.

LR3C-14 Regulator/Controller (14V) .....P/N 07-06742 ..... ---
LS-1A Regulator Controller (28V, B&C alternator)
P/N 07-06786 ..... ---

BC460-H ALTERNATORS

Introducing the "Next Generation" 60 amp Alternator that saves both weight AND money – without sacrificing performance or reliability. The BC460-H features heavy-duty sealed ball bearings, two internal cooling fans, and a precision dynamically-balanced rotor (rare in the industry, but standard on every B&C!). Additionally, it has three attachment points for stable mounting, and we uniquely modify the BC460-H for use with a more sophisticated, aircraft style, external voltage regulator with over-voltage protection. The BC460-H may be used in either a 14 volt or 28 volt electrical system, and includes your choice of Boss (Wide Deck) or Case (Narrow Deck) mounting brackets, attachment hardware, belt tension arm, high-performance belt, and pre-wired field connector assembly. Weight: 7.1 lbs.

Alternator Boss Mount ..... P/N 07-17981 ..... ---
BC460-H Alt. Case Mount For B&C Starter ..... P/N 07-17982 ..... ---
BC460-H Alt. Case Mount For Non B&c Starter .... P/N 07-17983 ..... ---

BC433-H GEAR DRIVEN ALTERNATOR WITH PMR3A

The BC433-H is a 30 amp 14V gear-drive alternator for Continental engines (C-75 through O-300). Featuring a unique brushless design, with a billet aluminum mounting flange and heavy-duty ball bearings, the BC433-H is an ideal choice for a variety of homebuilt designs. Weighs 4.4 lbs. and measures 4.1" (diameter) x 3.75" (length). Also includes a matching PMR3A Regulator and 505-1 Over-Voltage Protection kit. Sold without the Continental drive gear assembly (customer supplied), and requires the latest revision of the Hub (P/N 07-01327) and Retainer (P/N 07-01328). B&C has a limited supply of used drive gear assemblies, available at additional cost.

BC433-H Alternator ..... P/N 07-00771 ..... ---

ACCESSORIES

Generator Coupling (Cont. P/N: 653983).... P/N 07-01327 ..... ---
Generator Retainer (Cont. P/N: 653982) ... P/N 07-01328 ..... ---

SD-8 ALTERNATOR & REGULATOR

The SD-8 is a lightweight, spline-driven 14V alternator system for aircraft with an available vacuum pump drive pad. Features an ultra-reliable, brushless design, with a billet aluminum mounting flange and sealed heavy-duty ball bearings. With a nominal output of 8 amps, the SD-8 alternator is adequate for many day-VFR applications, and may be used as a backup power source on a variety of homebuilt aircraft. The SD-8 is a long-time favorite of top aerobatic pilots around the world. Weighs 2.9 lbs. and measures 3.5" (diameter) x 4.6" (length)..... P/N 07-06770 ..... ---

200G ALTERNATOR & REGULATOR

The 200G is a 12 amp 14V gear-drive alternator for Continental engines (C-75 through O-300). Features a ultra-reliable, brushless design, with a billet aluminum mounting flange and heavy-duty ball-bearings. Used in the prototype Vari-Eze, as well as many Cassuts, Q-200s, and other homebuilt aircraft, the 200G has been in production for over 30 years, with many systems still in service. With a nominal output of 12 amps, the 200G will support a modest night-VFR-night system. Measures 4.4" (diameter) and 3.8" (length), and weighs 3.4 lbs. Also includes a matching PMR1C Regulator and 504-1 Over-Voltage Protection kit. Sold without the Continental drive gear assembly (customer supplied; or purchased at additional cost). Gear assembly must be installed by B&C – send to Aircraft Spruce for installation.

200G Alternator ..... P/N 07-06575 ..... ---
New Drive Gear..... P/N 07-06500 ..... ---

B&C PERMANENT MAGNET ALTERNATOR OVER-VOLTAGE (PM/OV) KITS

The PM/OV Kit is designed to provide over-voltage protection to homebuilt aircraft electrical systems using a permanent magnet alternator. Features a solid-state "crowbar" over-voltage protection module, relay, filter capacitor, panel-mount warning lamp, and wire terminals. Included with all new B&C Permanent Magnet Alternator systems.

504-1 20A PM/OV Kit (14 Volt)..... P/N 08-00658 ..... ---

EP

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

B & C LIGHTWEIGHT STARTERS FOR LYCOMINGS

The original lightweight Starter for Lycoming engines. Weighing only 10.2 lbs., the B&C Starter was designed to meet rigorous demands of weight sensitive aircraft designs, without sacrificing reliability or performance. Introduced over 25 years ago, this same design has provided dependable service for thousands of satisfied customers. Every B&C Starter features heavy-duty sealed ball-bearings, all metal gears, electro-mechanical pinion engagement (no Bendix drive), and an efficient series-wound motor. Cantilevered pinion gear mounting requires no forward shaft support bearing, thus eliminating cowl interference or on-going maintenance. If battery failure precedes engine starting, a positive spring retraction system insures pinion gear disengagement. Both STC/ PMA and Homebuilt versions are available in 14 volt and 28 volt configurations.

FAA-approved for any of the following series of Lycoming engines:
• O-235 • O-290-D • O-320 • IO-320 • AIO-320 • AEIO-320 • LIO-320 • O-360 • HO-360 • LO-360 • IO-360 • HIO-360 • AIO-360 • AEIO-360 • TIO-360 • LTIO-360 • O-540 • IO-540 • HIO-540 • AEIO-540 • TIO-540 • LTIO-540 • IO-720

FOR CERTIFICATED AIRCRAFT APPLICATIONS

Part No.	Model No.	Pinion Gear Pitch	Teeth on Ring Gear	Battery Voltage	Price
07-06700	BC315-100-1	10/12	122	12	---
07-06705	BC315-100-2	12/14	149	12	---
07-06710	BC315-100-3	10/12	122	24	---
07-06715	BC315-100-4	12/14	149	24	---

FOR EXPERIMENTAL AIRCRAFT APPLICATIONS

Part No.	Model No.	Pinion Gear Pitch	Teeth on Ring Gear	Battery Voltage	Price
07-06720	BCS206-122-12	10/12	122	12	---
07-06725	BCS206-149-12	12/14	149	12	---
07-06730	BCS206-122-24	10/12	122	24	---
07-06735	BCS206-149-24	12/14	149	24	---

B & C LIGHTWEIGHT STARTERS FOR CONTINENTALS

With an innovative, patented design, the BC320 Starter for Continental engines solves all the problems that other starter designs have had—from worn-out clutches and broken pinions, to nagging oil leaks and catastrophic failure modes. Weighing only 10.3 lbs., it is also 4.3 to 5.2 lbs. lighter depending on your current starter configuration. Built for reliable service, the BC320 features a billet aluminum end bell, heavy-duty sealed ball-bearings, all metal gears, electro-mechanical pinion engagement, and an efficient series-wound motor. Cantilevered pinion gear mounting requires no forward shaft support bearing. The BC320 is a complete starter, ready to install, and includes an installation kit to convert from an existing pull-type starter, or an existing key-type starter. Both STC/ PMA and Homebuilt versions are available. FAA-approved for the following Continental engines: • C-75 • C-85 • C-90 • O-200 • C145-2 • IO-240 • O-300 • GO-300-A/B/C

FOR CERTIFICATED AIRCRAFT APPLICATIONS

Part No.	Model No.	Installation Kit	Battery Voltage	Price
07-06716-1	BC320-1	Existing Key-Type (501-1)	12	---
07-06716-3	BC320-1	Existing Pull-Type (501-3)	12	---

BC320-1 Starter Only.....P/N 07-06716 .....**$598.00**

ACCESSORIES

501-1 Installation Kit (key type) .....P/N 07-06752.....---
If you are replacing an existing key-type starter, a needle bearing will need to be removed from your engine before installing the BC320. A special tool kit is available to aid in removing this needle bearing. If you do not care to keep this kit, you may return it and be refunded $80.00.
501-3 Installation Kit (pull cable) .....P/N 07-06754.....---

JASCO GEAR DRIVEN ALTERNATOR KITS

The Jasco alternator is STC'd for many aircraft including the early Cessna 150, 172, and 175 series as well as Beech Model 35's with early E series Continental engines. Applicable to Continental C-90, 0-200 and 0-300 engines. Well-proven over many years of use in a variety of aircraft. Kit variants include alternator, voltage regulator, and over-voltage control.

Volts	Amps	Drive	Alt. P/N	Kit P/N	Price
New Alternators Only					
24	50	4 Stud, 6 Spline, Square Pad	7555T	07-00735	---
24	70	4 Stud, 6 Spline, Square Pad	7655T	07-00703	---
Alternator Kits					
12	50	4 Stud, 6 Spline, Square Pad	6555-1	6555-1	---
12	50	Round Pad, Like Delco	6560-1	07-06900	---
12	50	6 Stud, 16 Spline, Round Pad	6565-1	6565-1	---
24	50	4 Stud, 6 Spline, Square Pad	7555-1	7555-1	---
24	50	6 Stud, 16 Spline, Round Pad	7565-1	07-75651	---
24	70	4 Stud, 6 Spline, Square Pad	7655-1	07-20060	---
Accessories					
24		150 Ohm Resistor	17-10	07-01710	---

PLANE POWER POWERFLEX VOLTAGE REGULATORS

REGULATOR - R1224

14V / 28V, replaces Ford, Electrodelta, Prestolite, Interav, Wico, FVR, and more voltage regulators. (Refer to Model Eligibility for your more information and additional models). The Plane Power R1224 Voltage Regulator is a solid-state voltage regulator with over-voltage protection, field short (over current) protection, and reverse battery protection. The Plane Power R1224 Voltage Regulator also supports precision load sharing for twin applications, and an alternator inoperative lamp.
14V .....P/N 07-01305 ..... ---
28V .....P/N 07-20521 ..... ---

REGULATOR - R1224J

Plane-Power recently earned a PMA for its R1224J voltage regulator for use in Jasco alternator conversion kits. "There are thousands of Jasco alternators currently in the field on all types of engines from legacy radials to newergeneration Continental and Lycoming engines," said Keith Bagley, president of Hartzell Engine Technologies. "Unfortunately, as those original components age, their reliability goes down and cost of ownership goes up. By offering a voltage regulator with improved technologies, we are providing Jasco STC holders with a cost-effective path to upgrade to a solid-state voltage regulator that features integrated over-voltage, field short, and reverse-polarity protection."
14V .....P/N 07-26836 ..... ---
28V .....P/N 07-26835 ..... ---

POWERUP AERO ALTERNATOR KIT FOR CESSNA 206

Powerup B/U Alternator Kit for Cessna 206. MFR Model# KATS-15-002 ..P/N 07-25508 ..... ---

POWERUP AEROSPACE DUAL ALTERNATOR KIT

The kit includes a duplicate 95 amp alternator to the original equipment, along with all the pulleys, belts, brackets and hardware for installation on the Lycoming IO-540 series engines. All system controls are panel mounted and the backup system is activated with a flip of a switch. STC Approved for Cessna 182, 182T, 182S.
Alternator Kit Cessna 182/182T .....P/N 07-01490 ..... ---
Dual Alternator Kit Cessna 182S.....P/N 07-01804 ..... ---

LS-1A VOLTAGE REGULATOR

The LS-1A Controller offers linear voltage regulation, integral over-voltage protection, and low-voltage monitoring and warning. It has been specially designed, however, to permit the use L-40 & L-60 alternators in a 28v electrical system. The LS-1A weighs approximately 9 ounces, may be mounted on the cockpit side of the firewall, and is available with an optional battery temperature sensor for colder climates. Select a location for mounting that will protect unit from heat, vibration, and water. The pilot side of the firewall, or inside the cabin near the instrument panel, is recommended.
For Experimental Aircraft ONLY.....P/N 07-06786 ..... ---

ALTERNATOR & GENERATOR BELTS

CONTINENTAL.....539547-31.19.....---

EP

HARTZELL ENGINE TECHNOLOGIES E-DRIVE STARTERS

• Lightweight neodymium permanent magnet motor • In line design • Self-resetting torque limiter for kickback protection • Internal solenoid engagement • Drive pinion supported by bearings on both ends E-Drive aircraft starters offer industry-leading, robust, high duty cycle starters in a lightweight package. By utilizing a powerful neodymium permanent motor driven though a self-resetting negative torque-sensing device, the E-Drives provides unparalleled kickback protection, preventing hours of down time and replacement costs. The E-Drive aircraft starter is solenoid engaged, eliminating the need for a Bendix drive. Its low current draw helps maintain good battery life.

• High Performance Armature • Robust spring design • Increased commutator bar length • High performance field housing • Thin laminations • Rare earth neodymium magnets • High quality magnetic alloy • Small package • 12 & 24 volt winding configuration • Stronger flux field • Redesigned Brush Holder • Improved temperature stability • Metal construction for heat sinking • 9.5 lbs. • Offset brush position for increased brush contact area

APPLICATION CHART

E-Drive Number - Approved Alternative for the following:

ERB-8011	ERB-8012	ERZ-8011	ERZ-8012
MHB-4001	MHB-4015	MZ-4205	MZ-4204
MHB-4002	MHB-4002	MZ-4206	MZ-6204
MHB-4003	MHB-6001	MZ-4207	
MHB-4005		MZ-4217	
MHB-4007		MZ-4218	
MHB-4010		MZ-4219	
MHB-4012		MZ-4221	
MHB-4013		MZ-4224	
MHB-4014		MZ-4222	
MHB-4016		MZ-4223	
MHB-4017		MZ-4225	
MHB-4019		MZ-6222	
MHB-4020		MZ-6224	

• Starter system designed for maximum performance • Drive assembly integrates proprietary pinion gear, clutch, torque limiter, and actuator in one complete module • Available for coarse and fine pitch ring gears, clockwise and counterclockwise rotation • No periodic service or recurring maintenance required • 9.5 lbs.

Model	Description	Lycoming Engine	Replaces	Part No.	Price
ERZ-8011	Clockwise rotation, 12 Volt, 149 tooth - 12/14 Pitch Gear	235, 290, 320, 340, 360, 540	31A21198, Sky-Tec 149-NL,149-12PM, LS, Lamar PM1201, PM1204, MZ-4205 thru -4207,-4217 thru -4219,-4221 thru -4226,-6222,-6224	07-01102	---
ERZ-8012	Clockwise rotation, 12 Volt, 122 tooth - 12/12 Pitch Gear	235, 290, 320, 360, 540	31A21210, Sky-Tec 122-NL,122-12PM, LS, Lamar PM1203, MZ-4204,-6204	07-01103	---
ERB-8011	Clockwise rotation, 24 Volt, 149 tooth - 12/14 Pitch Gear	235, 320, 340, 360, 540	31B21064, Sky-Tec 149-NL, 149-NL/ec, 149-24, Lamar PM2401, MHB-4010,-4016 thru -4020,-6014,-6016,-6018	07-01099	---
ERB-8012	Clockwise rotation, 24 Volt, 122 tooth - 10/12 Pitch Gear	235, 290, 320, 340, 360, 540	31B21211, Sky-Tec 122-NL/ec,122-24PM, LS, Lamar PM2403, MHB-4015,-6001, MMU-4001,-6001, Delco 1109669	07-01101	---
ELB-8011*	Reverse/ Counter rotation, 24 Volt, 12/14 Pitch Gear	LTIO-540, LTIGO-540	14214, Sky-Tec 149-NLR/ec*, Lamar PM2404, MHB-4014, MHB-6014	07-02665	---
ELZ-8021*	Reverse/ Counter rotation, 12 Volt, 12/14 Pitch Gear	LIO-320, LO-360, LTO-360, LIO-360	14215, Sky-Tec 149-NLR, Lamar PM1204, MZ-4220, MZ-6220	07-02666	---

HARTZELL ENGINE TECHNOLOGIES FACTORY OVERHAULED STARTERS

If No Cores are Available at factory, we will require your core for overhaul.

Mfg. Ref.	Part Number	Price
MC-6501	07-06503	---
MHB-4020R	CALL	**CALL**
MZ-4204R	CALL	**CALL**
MZ-4219R	CALL	**CALL**
MZ-4224R	CALL	**CALL**
646238-2R	07-02650	---

HARTZELL STARTER OVERHAUL KITS

Lamar Technologies overhaul kits include all parts necessary for a normal major overhaul, as well as any special tools, lubricants, and thread compounds. The model specific kits cover all starters manufactured by Lamar Technologies in eight different kits. The overhaul manual has been rewritten to highlight tear down and assembly with detailed drawings and instructions. The manual covers all aspects of the rebuild in easily understood steps with tech support just a call or email away. (See Documents Tab). Average time to do a complete overhaul can be accomplished in less than an hour reducing downtime and increase revenue, as well as maintain the quality standards of the maintenance organization.

Description	Part No.	Price
PM1204-OHK - Fits all PM1204 starters	08-06007-1	---
PM2403-OHK - Fits all PM2403 starters	07-01273-1	---

QUALITY AIRCRAFT OVERHAULED STARTER ADAPTERS

07-19956

07-19962

Description	Part No.	Price
642083A12	07-19956	---
642087A68	07-19960	---
642087A69	07-19962	---
642087A70	07-19963	---
643259A18	07-19968	---
643259A39	07-19969	---
658440A1	07-19970	---

HARTZELL STARTERS FOR CONTINENTAL

Hartzell Permanent Magnet Starters represent the next generation in starter technology, setting new standards in performance and reliability.These lightweight starters deliver exceptional torque to start virtually any general aviation piston engine in nearly any environment, yet weigh about 40% less than conventional starters. The key is patented permanent magnet motor design. It replaces the bulky windings of a conventional starter motor with lightweight permanent magnets.These TBO starters are built to go the distance between engine overhauls. Conventional starters generally don't last, they usually have to be pulled off for repair or replacement at least once during the life of the engine.24V unit is the new OEM part for Cirrus aircraft ..P/N 07-01274 ..... **---**

CONVERSION CHART

The Magnaflite lightweight starter listed in the table below will be superseded by the E-Drive and/or X-Drive starter listed therein. All Magnaflite P/N's listed below that are currently installed, being installed or in inventory are in no way affected. Standard Limited Warranty, is in effect and returns for reason of supersedure will not be accepted.

KAPS Part Number	X-Drive Left Hand Solenoid	X-Drive Right Hand Solenoid	E-Drive
MHB-6016	SRB-9021	SRB-9031	ERB-8011
MHB-6018	SRB-9021	SRB-9031	ERB-8011
MMU-6001	SRB-9022	SRB-9032	ERB-8012
MZ-6204	SRZ-9022	SRZ-9032	ERZ-8012
MZ-6222	SRZ-9021	SRZ-9031	ERZ-8011
MZ-6224	SRZ-9021	SRZ-9031	ERZ-8011
MZ-6226	SRZ-9021	N/A	ERZ-8011

TCM ENERGIZER STARTERS

FACTORY NEW

Model	Volt/Amp	Part No.	Price
ES646238-2	12V	07-01333	---
ES646275-1	24V	07-02652	---

FACTORY OVERHAULED

Model	Volt/Amp	Part No.	Price
646238-2R	12V	07-02650	---
646275-1R	24V	07-06502	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SKY-TEC STARTERS

SKY-TEC ST2 & KCST2 MODEL STARTERS FOR SMALL CONTINENTAL ENGINES

SKY-TEC PULL START CONVERSION C12ST2 - FOR FACTORY KEYSTART STARTER FOR A65-12 THROUGH O-300C ENGINES

9.2 lbs., Bolt-off / Bolt-on, High Torque, Low-Current, Gasket Included, Replaces TCM starter & continuous running sprag clutch in TCM factory keystart engines. Now featuring internal, self-resetting Kickback Protection System - zero maintenance - no pin to shear.

SKY-TEC KCST2 - STC-CERTIFIED CONVERSION KIT FOR FACTORY PULL-START ENGINES

STC Modification of Engine Required (removal of OEM starter pinion shaft in rear of engine). STC Modification of Airframe Required (replacement of pull-start T-handle with Sky-Tec-supplied push button & wiring) High Torque, Low-Current, 9.2 lbs. Now featuring internal, self-resetting Kickback Protection System - zero maintenance - no pin to shear. **Complete Conversion Kit includes:** C12ST2/S Starter, Push Button Switch, Wiring Harness, Gasket, Instructions, STC for Airframe Modification, STC for Engine Modification

SKY-TEC KEY-START C12ST2/SR

REVERSE TURNING for Continental GO-300 Engines ONLY - Internal, self-resetting Kickback Protection System - zero maintenance - no pin to shear. 6-8 lbs. lighter and significantly more reliable than the original, heavyweight factory starter. **Also sold in a Kit (KCST2/SR)**STC Certified conversion kit includes C12ST2/SR REVERSE TURNING starter for GO-300 engines (only), push-button switch, push-to-start placard, wiring harness, two STC's (one for airframe modification, one for engine modification) and instructions. 2-year factory warranty.

Model C12ST2 (Starter only) .....P/N 07-00614 ..... ---
Model C12ST2/S (Starter only) .....P/N 07-00719 ..... ---
Model KCST2 conversion kit.....P/N 07-00721 ..... ---
KCSW Switch and harness only .....P/N 07-00722 ..... ---

SKY-TEC ST5 SERIES STARTERS

The ST5 starter couples a high power 2.2 kW motor with an innovative solenoid-engaged (and disengaged) drive system completely disengages the powerful permanent magnet motor while the starter is unpowered eliminating possible TCM starter adapter wear while providing authoritative, high-torque starting. Positive solenoid enabled engagement and disengagement allows the TCM starter adapter to fully unwrap under all normal operating conditions thus greatly prolonging starter adapter life.Weight: 9.1 lbs.

C12ST5 .....P/N 07-01341 ..... ---
C24ST5 .....P/N 07-01342 ..... ---

SKY-TEC BCE-6 EXTENSION CABLE KIT

6" Battery Cable Extension kit aids the installation of starters in aircraft that have limited slack available in the aircraft's starter power cable. Generally not required for TCM starter installations. May be needed in some PM, and NL model Lycoming installations.

P/N 07-00923 ..... ---

SKY-TEC XLT STARTERS

The world's lightest starter ever certified for Lycoming engines. Only 6.5lbs! Only 8 inches total length and 3.5 inches tall! Left-side mounted solenoid. High torque and fast spin. FAA PMA certified for most Lycoming 4-cylinder engines from O-235 to IO-390. Low current draw. Highly durable, fortified aluminum mount/housing. No Bendix to lubricate. Nothing to maintain. 2-Year factory warranty.

Volts	Model	Recommended for	Part No.	Price
12V	122-12XLT	Engine Powered Aircraft with 10/12 pitch, 122-tooth ring gears	07-02419	---
12V	149-12XLT	engine powered aircraft with 12/14 pitch, 149-tooth ring gears	07-02420	---
24V	122-24XLT	engine powered aircraft with 10/12 pitch, 122-tooth ring gears	07-02421	---
24V	149-24XLT	engine powered aircraft with 12/14 pitch, 149-tooth ring gears	07-02422	---

SKY-TEC STARTERS HIGH-TORQUE INLINE STARTERS FOR LYCOMING ENGINES

Featuring Sky-Tec's Exclusive KPS® Kickback Protection System, Sky-Tec's NL-series of starters fit all Lycoming powered aircraft. All NL-series starters are FAA-PMA certified as replacement parts for all non-geared, flat Lycoming engines. Sky-Tec NL-series starters fit without modification or 337 paperwork. At only 9.3 lbs., the NL-series is the lightest Bendix-free inline available. Two-year warranty.

Model No.	Voltage/ Description	Pitch	FAA-PMA Eligible	Part No.	Price
122-NL	12 Volt	10/12 (for 122-Tooth Ring Gears)	Lyc 235, 290, 320, 360, 540 & 720	07-00761	---
149-NL	12 Volt	12/14 (for 149-Tooth Ring Gears)	Lyc. 235, 290, 320, 340, 360, 540	07-00762	---
149-NLR	12 Volt	12/14 (for 149-Tooth Ring Gears)	Lyc. LIO-320, LO-360, LTO-360, LIO-360, LHIO-360, & LTIO-540	07-00763	---
122-NL/ec	24 Volt Super Duty	10/12 (for 122-Tooth Ring Gears)	Lyc. 235, 290, 320, 360, 540 & 720	08-07061	---
149-NL/ec	24 Volt Super Duty	12/14 (for 149- Tooth Ring Gears)	Lyc. 235, 290, 320, 340, 360, 540	08-07059	---
149-NLR/ec	24 Volt Super Duty	12/14 (for 149-Tooth Ring Gears)	Lyc. LTIO-540	08-07060	---

SKY-TEC HIGH-TORQUE STARTER

One of the lightest Lycoming starters available at only 8.9 lbs. Spins twice as fast as most heavyweight OEM starters. Zero maintenance - no pins to replace in the event of a kickback. FAA-PMA approved for most Lycoming engines. Some airframe applications may require minor modification for best fit. Confirm aircraft fit, ring gear tooth count and voltage before ordering. 2-Year factory warranty.

Model	Voltage	Description	Part No.	Price
122-12HT	12V	10/12 Pitch (122 Tooth)	07-06250	---
122-24HT	24V	10/12 Pitch (122 Tooth)	07-06251	---
149-12HT	12V	12/14 Pitch (149 Tooth)	07-01840	---
149-24HT	24V	12/14 Pitch (149 Tooth)	07-01841	---
149-24HT/EC	24V	Sky-Tec Starter (149 Tooth)- SuperDuty/EC	07-06255	---

SKY-TEC FLYWEIGHT™ STARTERS FOR LYCOMING ENGINES

FAA-PMA approved for most Lycoming engines. Some airframe applications may require modification for best fit. LS model has the solenoid offset to the left side and PM model is offset to the right. Confirm aircraft fit, ring gear tooth count and voltage before ordering. Generous 2-Year factory warranty. **Note**: The LS Solenoid is at the 2:30 position and the PM Solenoid is at the 7:30 position when viewed from the front. 8.1 lbs.

Model	Part No.	Price
122-12LS	07-06245	---
149-12LS	07-06246	---
122-12PM	07-06252	---

Model	Part No.	Price
149-12PM	07-06253	---
122-24PM	07-06249	---
149-24PM	07-06257	---

RECOMMENDED STARTER BY AIRCRAFT

For complete listing of recommended Sky-Tec™ Starters by Aircraft make & model, please see the Aircraft Spruce website for a link to the Sky-Tec™ website **at www.aircraftspruce.com**

SOLENOIDS – GPL STARTERS

LAMAR STARTER SOLENOIDS

Silver contacts provide 300A in-rush capability. Much higher than the original units. Strong spring and high-current coil for quick contact opening - minimizing arcing. Single coil terminal (other end connected to case).
FAA-PMA APPROVED for Certified Aircraft

Model No.	Volts	Description	Part Number	Price
STS-12S	12	Starter Solenoid	07-03562	---
STS-24S	24	Starter Solenoid	07-03563	---
STS-12M	12	Battery/Master Solenoid	07-03564	---
STS-24M	24	Battery/Master Solenoid	07-03565	---
STS-12A	12	Continuous Duty (Aux) Solenoid	07-03566	---
STS-24A	24	Continuous Duty (Aux) Solenoid	07-03567	---

GPL ELECTRIC STARTERS

GPL Electric offers an electric starter kit for several rotax engines. This unique system not only allows you to retain pull start, but also allows you to keep oil injection (if present) otherwise, a cover plate can be used (if space constrained). This system safely engages the ring gear at a 90 degree angle, then fully disengages from the crankshaft. The GPL Electric starter kit will not disable the engine due to malfunction, so it is the safest designed after market starter kit available for rotax engines and is made in the U.S.. GPL Electric also provides excellent warranty, comprehensive technical support and maintains a full replacement of parts inventory.

GPL STARTER KITS FOR ROTAX ENGINES

GPL Electric Starter Kit Includes:
(M8) Hi Collar Split Washer, (M6 X 90) Socket Head Cap Screw, (M6) Hi Collar Split Lock Washer, (M6 X 18) Socket Head Cap Screw, (M6) Split Lock Washer, (M8 X 25) Socket Head Cap Screw, (M8 X 22) Low Profile Socket Head Cap Screw, Main Casting (D3) Sits In The 10:00 Pos or Main Casting (D4) Sits In The 11:00 Pos, Ring Gear, Inner Spacer, Starter Motor (Heavy Duty), Loctite 242 Threadlocker, Installations Instructions, and Coverplate (If Not Retaining Pull Start)
If Retaining Pull Start The Following Is Also Required
Outer Spacer (1), (M8 X 12) Hex Head Cap Screw (3), (M8) Split Lock Washer (3), and (M6 X 22) Socket Head Cap Screw (4)

Application	Model Number	Part Number	Price
Rotax Engines (377,447,503)	03-001	15-06473	---
Rotax Engines (462,582,618,670)	03-004	15-06472	---
Rotax Engines (532 CDI)	03-005	15-08364	---
Rotax Engines (532 POINT)	03-006	15-08365	---

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GPL RETAIN PULL START KITS

Retain Pull Start Kit: Engine Specific Outer Spacer And Required Hardware (nuts/bolts). Model No. 02-29 RO
Rotax Engines (462,582,618,670).....P/N 15-05373 ..... ---

GPL ELECTRIC REPLACEMENT STARTER MOTORS

This motor fits all GPL Starter Kits and the Hirth F23 Engine as well.
Heavy Duty Starter Motor Model 02-70HD..P/N 15-05371 ..... ---

GPL DELUXE STARTER KITS

The Deluxe Starter Kit Includes: Rubber Insulating Boots, Push Button Switch, Solenoid, Regulator/rectifier, 20 Amps Fuse / Fuse Holder, Cables & Wiring (aircraft Specific), Hardware (nuts/bolts).
Deluxe Add On Kits. Weighs 3 Lb

Application	Model No.	Part Number	Price
Challenger Air Crafts (11 ft Cable)	03-009-11	15-08341	---
Other Air Crafts (5 ft Cable)	03-009-05	15-08340	---

GPL PULL START RETENTION KIT

GPL pull start retention kit for Rotax 462, 582, 618, 670.
P/N 15-07970 ..... ---

SEE WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE LIST OF REPLACEMENT PARTS.

ZEFTRONICS VOLTAGE REGULATORS

Photo	Description	Part No.	Approval	Price	Replacement For
	R15100 Rev A VR:14.2V. • Ground-Fault-Protection (GFP) • Trouble-Shooting Light (TSL) • Use R15V00 Rev A for built-in OV Protection.	07-00622	FAA-STC	**$309.00**	Cessna: C611001-0101, -0102, -0201. Beech: 33-380010 Electrodelta: VR600 Lamar: DGR6 FORD: D4FF-10316-BA, D4FF-10316-CA
	R15V00 Rev A VR:14.2V; OV 16V Same as R15100 Rev A plus OV Protection	07-00628	FAA-STC	**$466.00**	Zeftronics: R15100 Rev A (ACU), Plus V11100 (OVS)
	R1510N Voltage Regulation: 14.2V • Use R15V0N for built-in OV Protection • Single or Dual Alternator Application • Externally Adjustable	07-00624	FAA-STC FAA-PMA	**$415.00**	Prestolite: VSF7201, 2, 2S, 3, 3A, 3S, 4 Electrodelta: VSF7203A TCM: 649684-1 Piper: 550-383
	R15V0N VR: 14.2V ; OV 16.0V • Low/OV Light, OV Protection	07-00630	FAA-STC FAA-PMA	---	Zeftronics: R1510N (ACU), Plus V1510A (OVR)
	R1510L Voltage Regulation: 14.2V. • Ground-Fault-Protection (GFP) • Trouble-Shooting Light • Reduced panel lights fli • Use R15V0L for built-in OV Protection	07-00623	FAA-PMA	---	Piper: 450-392, 484-121, 66804-03, 756-055, 484-088 Beech: 169-380063 Wico: X16300B, X17990. Lamar: B00267-1, 2, B00331-1, 2. Delco Remy: 9000590, 1116393, 1116398 Electrodelta: VR200, A Commander: 1816110 Prestolite: FVR4004, 4224, 4011 RBM: 87-87102-21 Lycoming: LA-11357, 12747
	R15V0L VR: 14.2V ; OV: 16V • Ground-Fault-Protection (GFP) • Trouble-Shooting Light (TSL) • OV Protection built-in	07-00629	FAA-PMA	**$447.00**	Piper: 557-337 Lamar: B00371-1,-8,-14 Electrodelta: VR371 Zeftronics: R1510L (ACU), Plus V1510A (OVR)
	R15300 VR: 14.2V. OV: 16V • Ground-Fault-Protection (GFP) • OV Protection built-in, T/s Light	07-00625	FAA-PMA	**$527.00**	Mooney: 800270-505, 880016-503 Electrodelta: VR415F Lamar: DGR1-1
	R1530B VR: 14.2V. OV: 16V • Ground-Fault-Protection (GFP) • OV Protection built-in • Trouble-Shooting Light	07-00626	FAA-PMA	**$559.00**	Mooney: 880016-501 Beech: 35-380093-1,2,3 Electrodelta: VR414, B00403-1; EM2073-1, 2 Oeco: 20053, 20065, 20137, 20437, 20082
	R25101 Rev A VR: 27.7 • GFP & Trouble-Shooting Light • Use R25400 (require mod to ALT wiring & connector) for built-in OV Protection.	07-00631	FAA-PMA	---	Cessna: C611004-0101, C611002-0102, -0105 Ford: C8FF/ C6FF-10316-A TCM: 636147 Electrodelta: VR500-0101
	R25102 Rev A Voltage Regulation: 28.7V Same features as R25101 Rev A	07-00632	FAA-PMA	---	Cessna: C611004-0102 Electrodelta: VR500-0102
	R251DR VR: 27.7V ••BEST VALUE•• •Trouble-Shooting Light & GFP •Externally Adjustable	07-00634	FAA-PMA	**$458.95**	Delco Remy: 9000591 Lycoming: 74292 TMC: 631656
	R25400 VR: 28.7V •OV Protection built-in & GFP •Trouble-Shooting Light	07-00635	FAA-STC	---	Cessna: C611005-0103, -0101, -0102 Electrodelta: VR515F, G, GA Lamar: DGR3

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FOR A COMPLETE LISTING OF ALL PRODUCTS AND AIRCRAFT ELIGIBILITY LIST, VISIT WWW.AIRCRAFTSPRUCE.COM.

ZEFTRONICS VOLTAGE REGULATORS – CONTROLLERS

Photo	Description	Part No.	Approval	Price	Replacement For
	R2510N VR: 28.4V • Use R25V0N for built-in OV Protection. • Single or Dual Alternator Application • Externally Adjustable	07-00633	FAA-STC	---	Prestolite: VSF7403A, 3S, 4Piper: 550-381 Lycoming: LW10179, 77347
	R25V0N VR: 28.4V ; OV 32V R2510N plus OV Relay, Low/Over-Voltage Indicator	07-00636	FAA-STC	**$567.00**	Prestolite: VSF7403A,3S,4. Piper: 550-381. Lyc: LW10179, 77347 Zeftronics: R2510N + V2510A
	V11100 Over-Voltage Trip: 16.0V • Use w/ R15100 Rev A, VR600 or DGR6 • More Precise OV Protection	07-00637	FAA-STC	---	Cessna: C593001-0101 Lamar: DG01 Electrodelta: OS60. Electromech: EM235
	V1510A Over-Voltage Trip: 16.0V • Use with R1510N or VSF72XX Series for OV Protection. • Use with R1510L for OV Protection • More Precise OV Protection	07-00638	FAA-STC FAA-PMA	---	Piper: 450-397, 484-183, 550-380, 450-393 Beech: 138-1 Wico: X-17621 Lamar: B00289-2, B00339-1 Electrodelta: OS75-14 Delco-Remy: 1115831 Prestolite: FOC-4002B
	V25101 Over-Voltage Trip: 32V • Use with R25101(2) Rev A or VR500-0101,0102 for OV Protection	07-00639	FAA-STC FAA-PMA	---	Cessna: C593003-0101, -0102 Electrodelta: OS100-0101 Electromech: EM233 Lamar: DG02-28 Other P/n: 138-3
	V2510A Over-Voltage Trip: 32.0V • More Precise OV Protection • Use with R2510N or VSF74XX	07-00640	FAA-STC	---	Piper: 484-182, 550-382, 584-043 Prestolite: FOC4003A, B. Lycoming: 74804, 78060 Wico: X17634, X17620 Delco Remy: 1115832
	G1200N VR:14.2V. Current Limit (CL): 20A Trouble-shooting Lights, Electronic GCU	07-00617	FAA-PMA	**$399.00**	Delco: 1118736, 1118904, 1119226. VR300-14-20. Cessna: 0413025-4, 5, 12
	G1350N • VR 14.2V: Current Limit (CL): 35A trouble shooting Lights, Electronic GCU	07-00618	FAA-PMA	**$415.00**	Delco: 1118704, 1119220, 1118-704, 1118892. VR300-14-35, 450-390. Cessna: 0413025-6, 8, 10
	G1500N VR:14.2V: Current Limit (CL): 50A Trouble-shooting Lights, Electronic GCU	07-00619	FAA-PMA	**$415.00**	Delco: 1118884, 1118713, 1119224, Electrodelta: VR300-14-50. Cessna: 0413025-7, 9, 11
	G250KN VR: 28.4V.CL: 50A, EQR Built-in	07-01367	FAA-STC	---	1119656 ,VR300-28-50. Cessna: 0850460-9

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FOR EXPERIMENTAL AIRCRAFT

ZEFTRONICS B SINGLE ENGINE GENERATOR CONTROLLERS GCU

14V or 28V Type B Single Engine Generator Controller (GCU) available for 10 - 50A with built-in Reverse Current Protection, Field Ground Fault Protection (GFP), and Troubleshooting Lights. Replaces carbon pile Voltage Regulators.

14V B Single ..... P/N 07-17986 ..... ---
28V B Single ..... P/N 07-17987 ..... ---

ZEFTRONICS 28V A SINGLE ENGINE GENERATOR CONTROLLER GCU

28V Type A Single Engine (SE) Generator Controller Unit (GCU) available for 10- 50A with built-in Reverse Current Protection, and Color-Coded Diagnostic Troubleshooting Lights.

Used on Ground Power Units.

14V A Single .....P/N 07-17990 ..... ---

WAPSI AERO REGULATOR / RECTIFIER

Designed as a direct drop-in replacement for Key West regulators .....P/N 05-27536 ..... ---

ZEFTRONICS ALTERNATOR CONTROLLERS WITH OV PROTECTION

14V or 28V Alternator Controller Unit (ACU) with built-in OV Protection (OVP), Field-to-Ground Short Protection (GFP), and Troubleshooting Lights that separately indicate OVP, GFP, and Power-On.

14V .....P/N 07-17991 ..... ---
28V .....P/N 07-17992 ..... ---

ZEFTRONICS 28V ALTERNATOR CONTROLLER WITH LOW AND OV INDICATION

28V Alternator Controller (ACU) with built-in Low and OV Indication, OV Protection, Field-to-Ground Short Protection, and Color-Coded Diagnostic Lights.

28V .....P/N 07-17993 ..... ---

ZEFTRONICS 28V B ALTERNATOR CONTROLLER WITH LOW AND OV PROTECTION

28V Type B Alternator Controller Unit (ACU) with built-in OV Protection, OV Indication pin. Field-to-Ground Short Protection and Color-Coded Diagnostic Lights.

28V .....P/N 07-17994 ..... ---

LAMAR ELECTRICAL COMPONENTS

Lamar Number	Description	Applications	Our Number	Price
A-00258-1	Switch, Alternator INOP	Piper, Hawker Beechcraft, Maule	07-01146	---
A-00258-2	Switch, Alternator INOP	Piper, Hawker Beechcraft, Maule, Twin Commander	07-01147	---
B-00266-2	Overvoltage Relay, 28V, Piper	Piper, Twin Commander, Agusta-Bell	07-01148	---
B-00286-1	Regulator, 28V, Parallel OP (twin)	Cessna & Piper	07-01449	---
B-00288-1	Regulator, 14V, Parallel OP (twin)	Piper, Hawker Beechcraft, True Flight Holdings	07-01150	---
B-00289-2	Overvoltage Relay, 14V	Piper, Hawker Beechcraft, Cessna, Maule, American Champion, True Flight Holdings, Varga, General Avia	07-01151	---
B-00306-3	Regulator, 28V, Parallel OP (twin)	Hawker Beechcraft	07-01153	---
B-00325-1	Timer, Pneumatic, 28V	Piper	07-01455	---
B-00331-2	Voltage Regulator, Type 1, 14V	Piper, Hawker Beechcraft, Enstrom, American Champion, True Flight Holdings, CPAC	11-04130	---
B-00341-1	Time Delay Switch	Piper	07-01158	---
B-00368-2	Alternator Control, 28V Load	---	07-01803	---
B-00371-1	Alternator Control, 14V	Piper, Maule, Robinson, Zenair, American Champion, Taylorcraft 2000, Enstrom, Brantly, Vulcanair, Socata	07-01167	---
B-00372-1	Alternator Control, Load Balancing	Hawker Beechcraft	07-01168	---
B-00375-2	Monitor Low Voltage	Piper	07-01170	---
B-00380-2	Sensor-Alt Out, 28V Pulsed	Hawker Beechcraft	07-01171	---
B-00382-1	Alternator Control, 28V Load	Piper	07-01172	---
B-00387-1	Voltage Regulator with Overvoltage Protection, 28V	Hawker Beechcraft	07-01173	---
B-00392-1	Alternator Control, 14V, Piper	Piper	07-01174	---
B-00403-1	Voltage Regulator with Overvoltage Protection, 14V	Hawker Beechcraft, Mooney	07-01176	---

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LAMAR SOLENOIDS

Aviation grade, non FAA-PMA approved, solenoid for continuous duty 12 volt applications. Fits current GA production aircraft as well as legacy aircraft. Replaces both single terminal switched units, as well as the current double terminal switched units in production today. All units have multiple quality and functional tests prior to certification and delivery.

Features: • Replaces most contactors in general aviation • 12 Volt Unit or 24 Volt Unit • Continuous Duty or Intermittent • All units inspected and tested to performance standards

Description	Part Number	Price
X61-0028 12V Continuous	07-01875	---
X61-0029 24V Continuous	07-01876	---
X61-0030 12V Intermittent	07-01877	---
X61-0031 24V Intermittent	07-01878	---

RPX TECHNOLOGIES DRYBOT AUTOMATED ENGINE DEHYDRATOR KITS

Cheaper than an overhaul! The DryBot engine dehydrator is totally automated and can be left unattended. It's designed to maintain internal engine humidity below the critical relative humidity at which corrosion occurs on steel surfaces such as cams and lifters. Armed with 12 sensors, the DryBot continually monitors for system and setup faults to ensure system performance. "Green light, you're good!"

KITS AND ADAPTERS

Description	Part No.	Price
Kit with adapter A/ USA Plug	08-19100	---
Kit with adapter B/ USA Plug	08-19101	---
Kit with adapter C/ USA Plug	08-19102	---

ADAPTERS ONLY

Description	Part No.	Price
Adaptor A	08-19049	---
Adaptor B	08-19050	---
Adaptor C	08-19060	---
Adaptor D Confg 205	08-19105	---
Adaptor D Confg 208	08-19106	---
Adaptor D Confg 210	08-19107	---
Adaptor M14	08-19108	---

SEE OUR WEBSITE FOR ADAPTOR DETAILS

SUPERIOR GASKETS – CYLINDERS

SUPERIOR LYCOMING ENGINES - MAJOR OVERHAUL GASKET SETS

SUPERIOR AIR PARTS

Lycoming engines are built with the best components in the industry. The only parts we paint are the steel barrels to resist corrosion. All aluminum parts; crankcase, assembly case, sump cylinder heads and assy drives are alodined only for corrosion protection. This leaves an engine that is easy to inspect, provides better cooling, and is lighter weight. FAA-PMA Approved

Note: Intake hoses and oil drain-back hoses must be ordered separately.

* Contains Exhaust Gaskets

** Contains Spiratallic "NO BLO" Exhaust Gaskets

*** Exhaust Gaskets, Not Included

Superior Part No.	Engine Model	Cylinder Head Type	Part No.	Price
SL61499-1**	O-235 Series	Parallel	08-11792	---
SL69371-1**	O-290 Series	Parallel	08-11840	---
SL12636*	AIO, AEIO-320 Wide Deck	Parallel	08-11572	---
SL14815*	O-320-H Series ('76' Series)	Parallel	08-11627	---
SL75439-1**	IO, HIO-360 Conventional IO-360-A, C, D, K; HIO-360-A, C; LIO, LHIO-C Wide Deck	Parallel	08-11966	---
SL75441-1**	IO, HIO-360 Conventional IO-360-A, C, D, K; HIO-360-A, C; LIO, LHIO-C Wide Deck	Angle	08-11967	---
SL12937***	HIO-360-D1A, D1AD Wide Deck	Angle	08-11580	---
SL12945*	O, LO-360 Wide Deck (Dual Magneto)	Parallel	08-11582	---
SL12944**	IO-360 Wide Deck (Dual Magneto)	Angle	08-11581	---
SL14845***	HIO-360-E, F, Wide Deck (Dual Magneto) LHIO-360-F Wide Deck (Dual Magneto)	Angle	08-11628	---
SL71900-1***	VO-435-A Series	Angle	08-11869	---
SL71181-1***	GSO, IGSO-480 Series	Angle	08-11857	---
SL71569-1***	O-540-A, B, E, F, G, H; IO-540-C, D, J, N, R Conventional and Wide Deck (Parallel Valve Head)	Parallel	08-11861	---
SL73185-1***	IO-540-A, B, E, G, H, K, L, M, P, S Conventional and Wide Deck (Angle Valve Head)	Angle	08-11908	---
SL13378*	O-540, B, E, G,H, Wide Deck (Dual Magneto)	Parallel	08-11594	---
SL13367*	IO-540-K, L, M, U Wide Deck (Dual Magneto) AEIO-540-L1B5D Wide Deck (Dual Magneto)	Angle	08-11592	---
SL13377*	IO-540-C, N, T, V, W; O-540-J, L Wide Deck (Dual Magneto)	Parallel	08-11593	---
SL77175-1*	TIO-540-A Series Conventional; TIO-540-A2C Wide Deck	Angle	08-11995	---
SL15903*	TIO-540-S1AD Wide Deck	Angle	08-11642	---
SL12956*	TIO, LTIO-540-F, J, N, R (Dual Magneto)	Angle	08-11583	---
SL75181-1*	IO-720-A, B, C, D Series Conventional	Angle	08-11959	---
SL15423*	IO-720-A1B, B1B, B1BD, D1B, D1C, D1CD Wide Deck	Angle	08-11638	---

SUPERIOR LYCOMING ENGINES - SINGLE CYLINDER GASKET SETS

SUPERIOR AIR PARTS

Lycoming engines are built with the best components in the industry. The only parts we paint are the steel barrels to resist corrosion. All aluminum parts; crankcase, assembly case, sump cylinder heads and assy drives are alodined only for corrosion protection. This leaves an engine that is easy to inspect, provides better cooling, and is lighter weight. FAA-PMA Approved

Note: Exhaust Gaskets Must be Purchased Separately

Superior Part No.	Engine Model	Set No.	Part No.	Price
SL12040-SC	O-235 SERIES	SL12040-SC Parallel Valve Head	08-11559	---
SL12032-SC	O-290; O, IO, LIO-320; AIO, AEIO-320; O-340; O-360-A, B, C, D, F; IO-360-B, E, F; AEIO-360-B, H; HO-360-A, B; HIO-360-B; VO, IVO-360 O-540-A, B, E, F, G, H, J, L; IO-540-C, D, J, N, R, T, V, W; TIO-540-C, E, G, H, K; LTIO-540-K; AEIO-540-D	SL12032-SC Parallel Valve Head	08-11545	---
SL12039-SC	IO-360-A, C, D, J; AIO-360-A, B; AEIO-360-A; HIO-360-A, C, D, E, F; LIO-360-C; LHIO-360-C, F; TO-LTO-360-A; TIO-360-A	SL12039-SC Parallel Valve Head	08-11557	---
SL16916-SC	O-320-H; O, LO, TO, LTO-360-E "76" SERIES	SL16916-SC Parallel Valve Head	08-11679	---
SL12036-SC	O-435-A	SL12036-SC Parallel Valve Head	08-11552	---
SL12034-SC	GO, VO, TVO-435; GO, GSO, IGSO-480; IO-540-A, G, K, L, P, S, AA; AEIO-540-L; TIO, LTIO-540-U; VO, TVO, TIVO-540; IGO, IGSO-540-A	SL12034-SC Angle Valve Head	08-11549	---
SL12033-SC	IO-540-B, E, M, U; TIO-540-A, S, T; TIO-LTIO-540-F, J, N, R; TIO-541-A; IGO-IGSO-540-B	SL12033-SC Angle Valve Head	08-11547	---
SL12037-SC	IO-720-A, D	SL12037-SC Angle Valve Head	08-11554	---

SUPERIOR MILLENNIUM CYLINDERS

Uniform hardness all the way through the steel barrel walls which allows the barrel to provide even wear while withstanding extreme cylinder temperatures and pressures. Exhaust and intake ports are volumetrically matched to maximum output and performance. Increased port wall thickness - eliminates problems with warping and cracking. Computer-generated head fin configuration - deliver more uniform heat transfer and fewer "hot" spots. Manufactured from the most advanced alloys available - exceed industry standard for strength and porosity.

Millennium Cylinders For Continental Engines

Model No.	Application	Part No.	Price
SA65000S0	A-65 (Sold in Kit of 4 - STC)	08-11477	---
SA10200-A20P	O-200-A, B; C-125-2, C-145-2, -2H; O-300A, B, C, D	08-10908	---
SA10200-A21P	C-75, 85	08-10909	---
SA10200-A22P	C-90	08-10910	---
SA47006L-A20P	O-470-U; IO-470-D, E, F, H, L, M, N, S, U, V	08-11060	---
SA47006S-A20P	O-470-G, M, P; IO-470-C, G, P, R	08-11061	---
SA47006S-A21P	O-470-K, L, R, S	08-11062	---
SA52006-A20P	IO-520-A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB	08-11098	---
SA52006-A22P	TSIO-520-AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, VB, WB	08-11099	---
SA52006-A23P	IO-550-A, B, C	08-11100	---
SA55006-A20P	IO-550-D, E, F, L (Taper Finned Barrel)	08-11208	---

Millennium Cylinders For Lycoming Engines

Model No.	Application	Part No.	Price
SL 10302-A20P	O-235-F, J (High Compression)	08-11510	---
SL 10302-A21P	O-235-K, L, M (Medium Compression)	08-11511	---
SL 32006N-A20P	O-320-B, D, IO-320-B (Narrow Deck)	08-11732	---
SL 32006W-A20P	O320-B, D; IO-320-B, D; AIO-320-B, C; AEIO-320-D; LIO-320-B (Wide Deck)	08-16434	---
SL 32006W-A21P	O-320-A, C, E; IO-320-A, E; AEIO-320-E; (Wide Deck)	08-16432	---
SL32006N-A21P	O-320: -A1A, -A1B, -A2C, -A2D, -A3A, -E1A, -E1B , -E1C, -E1F, -E1J, -E2A, -E2B, -E2C, -E2D, -E2F, -E2G, -E2H, -E3D, -E3H (Narrow Deck)	08-16433	---
SL 36006N-A20P	O-360-A, C; IO-360-B; HO-360-B; HIO-360-B; O-540-A, D, E, G; IO-540-C, D, N; TIO-540-G (Narrow Deck)	08-11745	---
SL 36006N-A21P	O-360-B, D; O-540-B (Narrow Deck)	08-11746	---
SL 36006W-A20P	O-360-A, C, F, G; IO-360-B, E, M; HO-360-C; HIO-360-B; LO-360-A; AEIO-360-B, H; O-540-A, E, G, H; IO-540-C, D, N, T; AEIO-540-D (Wide Deck)	08-11749	---
SL 36006W-A21P	O-360-B, D; O-540-B	08-11750	---

SUPERIOR SL75089A PISTON

Superior SL75089A Piston. .....P/N 08-17025 ..... ---

See website for Engine Applications.

CALL OF EMAIL FOR QUOTE ON SUPERIOR XP & VANTAGE ENGINES

EP

Superior P/N#	Description	Part No.	Price
STD-1410	Exhaust Nut	08-03639	---
STD-1925	Rocker Box Cover Screw	08-03697	---
SA22022	Continental Brass Exhaust Nut	07-03554	---
SA22387	Engine Mount	22387	---
SA630979-9	O-Ring	08-11295	---
SA531001	Cylinder Hold Down Nut	08-11148	---
SA640612	Washer	08-11389	---
SL-STD-1411	Nut	08-12024	---
SL71973	Gasket	08-11872	---
SA21247	Exhaust Nut	07-03570	---
SA21185	Continental Inner Intake Hose	07-03477	---
SA534610	Push Rod Packing	08-03679	---
SL12681	Gasket	08-11573	---
SL-STD-2180	Hose	08-00311	---
SL-STD-1821	Hose	08-12031	---
SL72059	Lycoming Oil Dipstick Gasket	08-00305	---
SA22250	Continental Intake Gasket	07-03559	---
SA536413	Intake Gasket	08-03684	---
SA629925	Intake Gasket	08-11260	---
SA539840	Continental Connector Push Rod	07-03556	---
SA531003	Nut	08-11149	---
M83248/1-00	O-Ring	08-10891	---
SA633958-3	Seal	08-11349	---
SLR75906	Gasket	08-12021	---
SA21323	Carb Gasket - Bottom	21323	---
SL12186	Nut-Hex	08-11567	---
SA632837	Continental Stainless Steel Gasket	08-13232	---
SL66224	Gasket	08-11813	---
MS9134-01	Gasket	08-10885	---
SL70310	O-Ring	08-11848	---
SL62224	Gasket	08-11808	---
SL12892	Thrust Button	08-11579	---
SA642917-1	Induction Air Hose	08-11414	---
SL69603	Hose	08-11844	---
SL8313	Gasket	08-12019	---
SA534750	Gasket	08-11164	---
SL75906	Gasket	08-11983	---
SL66732	Gasket	08-11821	---
AN500-416-1	Screw	08-11173	---
SL-STD-1215	Bolt	07-00001	---
SL60430	Cover	08-11778	---
SA402151	Continental Exhaust Manifold Stud	05-03634	---
SL12272	Lock Plate	08-11568	---
AN500-416-1	Screw	08-11172	---
SL61173	Gasket	08-11785	---
SA630286	Packing	08-11275	---
SA534857	Gasket	08-11165	---
SA628556	Washer	08-11244	---
SA634505	Nut 6 Point	08-11353	---
SA22800	Intake Hose	08-10953	---
SA632248	Seal	08-11320	---
SA534857-S	Gasket	08-11166	---
SL67193-S	Gasket	08-11823	---
SA632310	Gasket Rocker Cover	08-11322	---
SA10200-A20	Millennium Cylinder	08-10908	---
SL12032-SC	Gasket Set	08-11545	---
STD-1196	Lycoming 1-1/2 Inch Intake Hose	08-00580	---
AS3578-038	O-Ring	08-10767	---
SL-STD-2090	Nut, Hex	08-12034	---
SA638172	Continental Bushing	08-00321	---
MS29512-8	O-Ring	08-10835	---
SA628488	Hydraulic Valve Lifter	08-11241	---
SL71481	Lycoming Cylinder Base Seal	08-03637	---
SA629436	Gasket Alternator Crankcase	08-11257	---
SL3601-SC	Ring Set Single Cylinder	08-11751	---
SA641250	Crankshaft Seal	08-03675	---
SA630824	Gasket, Intake Manifold	08-11288	---

Superior P/N#	Description	Part No.	Price
MS13997-3	Key	08-10802	---
SA200-T1	Gasket Set	08-10931	---
SA24804	Nut	08-10972	---
SA646277	Hydraulic Valve Lifter Exhaust	08-11432	---
SA401893	Continental Exhaust Stud	08-03682	---
SL383-B	Hexagon Nut	08-11768	---
SL72075	Seal, Ring, O	08-11877	---
MS21333-75	Clamp	08-10823	---
SA530019	Continental Crank Oil Seal	07-12765	---
SL31C-12	Lycoming Exhaust Stud	08-03636	---
SA628109	Connecting Rod Nuts	08-11239	---
SA630046	Piston Pins	08-11261	---
SA520-T1	Gasket Set	08-11117	---
SL13792	Lycoming Crankshaft Seal	08-00292	---
SA633958-5	Seal	08-11350	---
SA536379	Screw	08-11182	---
SL3601-SC P	Ring Set Single Cylinder	08-11752	---
SA652541	Nut 12 Point	08-11486	---
SA530928	Continental Push Rod Gasket	08-00317	---
SA641607	Seal, Push Rod Housing	08-11392	---
SL68972	Gasket	08-11835	---
SL13444-1	Piston Pin	08-11595	---
SA536740	Seal, Intake	08-11184	---
SA2437	Nut	08-10966	---
SL-STD-208	Seal, Oil	08-12033	---
SA470-T2	Gasket Set	08-11083	---
SA24759	Gasket	08-10968	---
MS29512-10	O-Ring	08-10832	---
SA630365	Gasket	08-11277	---
SL60592	Gasket	08-11779	---
SA652947	Washer	08-11487	---
SA629104	Counterweight Snap Ring	08-11249	---
SA2000-SC	Continental Single Cylinder Ring Set	649632-A1	---
AN737TW74	Clamp	08-10760	---
SA643629	Plate, Crank	08-11424	---
SA626140	Nut	08-11220	---
SA530162	Gasket	08-11130	---
MS21333-65	Clamp	08-10822	---
SA626983	Gasket	08-11223	---
MS90725-12	Bolt	08-10874	---
SA646234	Gasket	08-11429	---
SL15619	Gasket	08-11639	---
SA630892	Gasket Neck	08-11292	---
SL72711	O-Ring	08-11897	---
SL14995	Spring	08-11629	---
SL72091	Packing Resistant Oil Seal Ring	08-11880	---
MS49005-6Z	Pipe Plug	08-12047	---
SA530830	Piston Pin	08-11143	---
SL13790A	Shaft, Rocker	08-11603	---
SL-STD-425	Washer #10	08-12041	---
SA626342	Gasket, Oil Cooler-To-Plate	08-11222	---
SA22350	Gasket	08-10944	---
SL13641	Magneto Drive Cushions	08-11602	---
SA501867	Rocker Shaft Retaining Bolt Washer	08-11096	---
SA22532	Crankshaft Bolts	08-10949	---
SL71032	Bushing, Engine Support	08-11854	---
SA646985	Seal	08-11474	---
SA638125	Exhaust Stud - Rosan	08-03688	---
SA625303	Gasket	08-11212	---
SA652984	Shaft, Rocker	08-11488	---
SL12795	Gasket	08-11578	---
SL36006W-A2	Millennium Cylinder	08-11749	---
SA642917-2	Intake Hose	08-11415	---
SA5000-SC5	Piston Rings (For Steel Barrel)	08-11084	---
SA535057	Gasket	08-11171	---

SUPERIOR AIR PARTS

Superior P/N#	Description	Part No.	Price
SA52006-A22	Millennium Cylinder	08-11099	---
SL-STD-2213	Crew	08-12039	---
SA21361	Lock	08-10940	---
SA539467	Piston Pin	08-11203	---
SA537019	Screw	08-11186	---
MS35756-8	Key	08-10859	---
SA52006-A20	Millennium Cylinder	08-11098	---
SA24122	Bushing	08-10964	---
MS27769-01	Plug	08-10827	---
SA3577	Gasket	08-10999	---
SL12136	Bushing, Rubber	08-11566	---
SL53E19600	Valve, Oil	08-11771	---
SL68763A	Bearing, Crankshaft	08-11831	---
SL11997	Lycoming Crankshaft Seal	08-03671	---
SA626341	Gasket	08-11221	---
SL11020	Bearing	08-11521	---
SA1000-SC	Single Cylinder Ring Set	653394	---
SL11485	Shroud, Push	08-11525	---
SA22344	Gasket	08-10943	---
MS20823-6D	Elbow	08-10813	---
SL61183	Gasket	08-11787	---
MS29513-018	O-Ring	08-10836	---
SL78290	Plunger Assembly	08-12007	---
SL73857A	Lycoming Ring Oil	08-03694	---
SL18101	Hose	08-11682	---
MS9549-17	Washer	05-11791	---
SA534743	Gasket	08-11163	---
SA532200	Continental Cylinder Base Seal	08-03683	---
SA537745	Gasket	08-11195	---
SL68761	Tube Assembly	08-11830	---
SA632372	Gasket, Cooler To Plate	08-11324	---
SL74389	Bushing, Valve Rocker	08-11942	---
MS29561-010	O-Ring	08-10842	---
SA520129	Rocker Arm Bushing	08-11102	---
SL68315	Gasket	08-11824	---
MS29561-012	O-Ring	08-10843	---
SL14260	Oil Seal	08-11625	---
MS29561-237	O-Ring	08-10851	---
MS90725-14	Bolt	08-10876	---
SA25135	Gasket	08-10980	---
SA530162-S	Gasket, Rocker Cover	08-11131	---
SL11625	Piston Pin Plugs	08-11530	---
SA10200-A21	Millennium Cylinder	08-10909	---
SA646605	Nut	08-11470	---
SA5484	Gasket	08-11207	---
SA40762	Cover, Valve	08-11056	---
SA352058	Gasket	08-10988	---
MS16625-208	Retaining Rings Camshaft	08-10806	---
SA21477	Packing, Cylinder Base	08-10941	---
SA641066	Continental Cylinder Base Seal	08-03689	---
SA5000-SC5	P10 Ring Set Single Cylinder	08-11086	---
SA530658	Bushing	08-11142	---
SA636465	Gasket	08-11359	---
SL72566	Gear,Starter	08-11894	---
SL31H-0.88	Bolt	08-11731	---
SA539058	Washer	08-11202	---
SA25102	Seal	08-10977	---
SA530642	Gasket	08-11141	---
SL77569	O-Ring	08-11996	---
SA47006L-A2	Millennium Cylinder	08-11060	---
SA530340	Gasket	08-11134	---
AN932-2	Plug	08-10762	---
SL-STD-1623	Helicoil	08-12027	---
SA646846	Plunger Unit	08-11473	---
SL72877	Body, Hydraulic	08-11902	---
SA3610-SC	Piston Rings (For Steel Barrel)	08-11013	---
SA530917	Crankcase Nose Seal	08-11146	---
SA533355	Gasket	08-11159	---
SL16711A	Crankshaft Bearing	08-11673	---
SA643873	Exhaust Valve	08-03680	---
SA21007	Screw	08-10934	---
SA530386	Bearing	08-17196	---

Superior P/N#	Description	Part No.	Price
SA36170-A1	Continental Bearing	08-17194	---
SA352066	Gasket	08-10994	---
SA550-T1	Gasket Set	08-11209	---
SA5201-SC2	Ring Set	08-11103	---
SL15F19957-	Push Rod Assembly	08-11651	---
H28SS	Clamp	08-10777	---
MS9135-01	Gasket	08-10886	---
MS9136-01	Gasket	08-10887	---
SA360-T1	Gasket Set	08-11011	---
SL12040-SC	Gasket Set	08-11559	---
SL1691-C	Gasket	08-11680	---
SL62869	Lycoming Cylinder Base Seal	08-03687	---
SA35019	Gasket	08-10985	---
SL5401-SC	Ring Set Single Cylinder	08-11772	---
SL72312	Packing	08-11890	---
MS90725-13	Bolt	08-10875	---
SA24802	Key, Valve Spring Outer Retainer	08-10971	---
SA537282	Gasket	08-11187	---
SL2351-SC	Ring Set-Si	08-11705	---
AS3578-011	O-Ring	08-10764	---
SA24890-A5	Gasket Set	08-10974	---
SL32006W-A2	Millennium Cylinder	08-16434	---
SA352179	Gasket, Star	08-10998	---
MM5SS	Drain Back Clam	08-10797	---
SA5000-SC5	Ring S	08-11085	---
SA641931-10	Thrubolt	08-11398	---
SL32006W-A21P	Millennium Cylinder	08-16432	---
SL18109A-S	Impeller Kit	08-11683	---
SL74241A	Ring, Piston	08-11934	---
SL31C-12 P0	Stud	08-11722	---
SA35985	Gasket	08-11006	---
SA47006S-A2	Millennium Cylinder	08-11062	---
SA625958	Spring	08-11216	---
SL1028-B	Ball	08-11509	---
SL12034-SC	Gasket Set	08-11549	---
SL12039-SC	Gasket Set	08-11557	---
SL18639	Lockplate	08-11684	---
SL75439-1	Gasket Set	08-11966	---
SA536410	Seal	08-11183	---
SL19001A	Valve, Exhaust	08-11697	---
SA537749	Gasket	08-11196	---
SL73998A	Piston Ring	08-11923	---
AS3578-210	O-Ring	08-10769	---
SL74673A	Ring	08-11946	---
SA10200-A22	Millennium Cylinder	08-10910	---
SL61084	Spring	08-11783	---
SL69371-1	Gasket Set	08-11840	---
SA21284	Housing, Push Rod	08-10938	---
SA530192	Bushing	08-11132	---
SA629117-1	Rotocoil	08-11251	---
SA631088-.4	Bolt	08-11299	---
SA637837	Spring	08-11363	---
SA649205	Screw	08-11475	---
SL14815	Gasket Set	08-11627	---
SL61499-1	Gasket Set	08-11792	---
MS29512-12	O-Ring	08-10833	---
MS29561-111	O-Ring	08-10845	---
SA24764	Screw, Drive	08-10969	---
SA52006-A23	Millennium Cylinder	08-11100	---
SL73032	Gasket	08-11905	---
SL74065	Packing Resis	08-11926	---
M83248/1-14	O - Ring	08-10789	---
SA4000-SC2	Ring Set	08-11018	---
SL60096	Gasket	08-11774	---
MS13998-3	Cap	08-10803	---
MS21318-14	Drive Scre	08-10819	---
SA642238	Gasket - Fuel Pump Adapter	08-11400	---
SL-STD-1211	Expansion	08-12023	---
M83248/1-12	O-Ring	08-10787	---
SA535666	Screw	08-11175	---
SA538185	Gasket	08-11198	---
SA538304 P3	Push Rod	08-11199	---

EP

INTAKE HOSES

Lycoming 1-3/4" Intake Hose
P/N 69603..... ---
Cont. #22800 Outer & Cont. #21185 Inner Hose (8 sets required for A-65 thru 0-300) ..... P/N 08-03700 ..... ---
Cont. #22800 Outer Intake Hose
P/N 22800..... ---
Cont. #21185 Inner Intake Hose
P/N 07-03477 ..... ---

INTAKE GASKETS

Cont. #21327 (4) for A-65 only.....--- **Ea.**
Cont. #22250 (4) for C-85 — 0-300.....--- **Ea.**

EXHAUST GASKETS

Cont.. #21493 (08-05237) for A-65 thru 0-300 SS .....--- **Ea.**
Cont. #632837 SS.....--- **Ea.**
#77611 for 0-320 - not for H series SS.....--- **Ea.**

EXHAUST NUTS

Cont. #22022 (5/16-24) for A-65 thru 0-300 (8) .....--- **Ea.**
Cont. #MS20500-428 (1/4-28) for 0-470 (12) .....--- **Ea.**
Lyc. #STD1410 (5/16-18) .....--- **Ea.**

ROCKER BOX GASKETS

Cont. #530162 for A-65 thru 0-300 (4 required) .....--- **Ea.**

ROCKER BOX COVER SCREWS

Cont. #535091 (24).....--- **Ea.**
Lyc. #STD1925 (24) .....--- **Ea.**

CYLINDER BASE SEALS

Cont. #21477 for A-65 thru 0-200 (4) --- **Ea.**

MAGNETO FLANGE GASKET

Cont. #535324 .....--- **Ea.**
Lycoming #62224 .....--- **Ea.**

TACH OIL SEAL

Cont. #642714 (was #640087) for A-65 thru 0-300 ..... ---
Lyc. #LW14260 for 0-235, 0-290 ..... ---

OIL PRESSURE HOUSING GASKETS

Lyc. #61173 for 0-235, 0-290 (1) (2 with oil cooler).....--- **Ea.**

CARBURETOR GASKETS

For A-65 thru 0-200
Cont. #21051 (Top) .....--- **Ea.**
Cont. #21323 (Bottom) .....--- **Ea.**

GENERATOR DRIVE BELT

For Lycoming 0-235, 0-290.
P/N 60886..... ---

"O" SERIES LYCOMING VALVE COVER GASKETS

Replace the original cork gaskets which come standard on Lycoming 0-235, 0-320 and 0-360 engines. NOT FAA approved. For experimental aircraft only..... P/N 08-01187 ..... ---

TCM GASKET

TCM Gasket for Magneto & Access Drive..... P/N 08-07531 ..... ---

ANGLED VALVE "IO" SERIES LYCOMING VALVE COVER GASKETS

These gaskets are for the fuel injected "IO" series, sometimes referred to as the Angle Valve cylinder Lycoming They are not FAA approved and are not manufactured under a PMA. These are used on Angled valve Lycoming engines IO-360, IO-540, IO-720 .....P/N 08-05882 ..... ---

652072 ALTERNATOR GASKET

TCM Alternator Gasket, Gear driven alternator mounting gasket (gasket for engine that has been converted from generator to alternator).
P/N 07-01492 ..... ---

649984 ALTERNATOR GASKET

TCM Alternator Gasket replaces Continental Motors: 352066, 632560..... P/N 07-00768 .....

PUSH ROD SEALS

Continental #539840 for A-65 thru 0-200 (8) .....--- **Ea.**

TCM OIL SUMP PLUG 532432

Cont. #532432 Oil Sump Plug..... ---

CRANKSHAFT OIL SEALS

Cont. #530019 for A-65 thru 0-200, Flanged Shaft ..... ---
Cont. #24321 for A-65 and C-85, Taper Shaft..... ---
Lyc. #76940 for 0-235, 0-290..... ---

AN900 COPPER GASKETS

Cont. Engine Applications, A-65 thru 0-200 (1) each:
-10: Oil sump drain plug thermometer hole in oil screen, suction tube assy.....--- **Ea.**
-14: Oil relief valve .....--- **Ea.**
-22: Tach drive housing.....--- **Ea.**
-28: Oil pressure screen.....--- **Ea.**

AERO-SEAL HOSE CLAMPS

Aero-Seal Clamps for Cont. Intake Hoses.
P/N QS100-M32W.....--- **Ea.**

PROP GOVERNOR GASKET

P/N 07-00878 ..... ---

RING HOSE CLAMPS

Cont. #536388 (16) Required
--- **Ea.**

ENGINE MOUNT BUSHINGS

Cont. #22387 for A-65, C-85, C-90 except C-90-14F (8) Req'd.....--- **Ea.**
Lyc. #60883 for 0-235 and 0-290, 7/8" hole (8) Req'd ..... P/N 60883 .....--- **Ea.**
Lyc. #71032 for 0-320 with 1" hole (8) Req'd ..... P/N 71032 .....--- **Ea.**
Lycoming, FAA Approved. Replaces #71032. Set of 8..... P/N 71032 ..... ---

ENGINE MOUNT WASHERS

Cont. #21530 for A-65, C-85, C-90 except C-90-14F (8) Req'd .....--- **Ea.**
Lyc #STD619 for 0-235 thru 0-320 (8) Req'd.....--- **Ea.**

CRANKSHAFT SEAL LW11997

LW11997 Crankshaft Seal. Spring is impregnated in the gasket 4-04.
P/N 08-11997 .....---

LYCOMING PARTS TO CONVERT 0-235 WITH SPIN ON OIL FILTER TO OIL SCREEN

Oil Pressure Screen Housing
P/N 68974 ..... ---
Oil Screen.....P/N 62817 ..... ---
Oil Screen Housing Gasket
P/N 61173 ..... ---
FOR OIL COOLER INSTALLATION ADD:
Spring .....P/N 69436 ..... ---
Plunger .....P/N 62415 ..... ---
Gasket .....P/N AN900-10 ..... ---

Cont. Oil Screen...P/N 08-01544 ..... ---

OIL COOLER PARTS SHOWN ABOVE NOT USED WITH THERMAL VALVE ASSY.

GENERATOR ATTACHING PARTS FOR CONT. C85, C90 & 0-200

Ref.	P/N	Item	Price Each
#2	352068	Oil Seal	---
#4	07-01328	Attaching 653982 Retainer	---
#6	530407	Sleeve	---
#7	531325	Gear	---
#8	530412	Slotted Nut	---
#10	35019	Generator Gasket	---

Note: 626543 is sold as a pair. If only one bushing is needed, order P/N 08-06218 .....---

ENGINE MOUNTING PARTS FOR CONT. C-90-14F & O-200 ONLY

Ref.	P/N	Item	Qty.	Price Each
#1	628555-16	Hose	(4)	---
#2	530627	Spacer	(4)	---
#3	530626	Seat	(8)	---
#4	530740	Bushing	(8)	---
#5	530741	Washer	(8)	---
	AN6-55	Bolt	(4)	---
	AN310-6	Nut	(4)	---
	MS24665-283	Pin	(4)	---

ALTERNATOR & GENERATOR BELTS

Lycoming .....37A19773-376 (Alt.) ..... ---
Lycoming .....37B19774-374 (Gen.)..... ---
Continental ....539547-31.19 ..... ---
Piper PA28/PA32
P/N 05-06877 ..... ---

24031 VALVE SPRING

Continental Inner Valve Spring Used on C90 & O-200 Engines
P/N 07-24031..... ---

EP

CONTINENTAL ENGINE PARTS

C-85	Price Each
639640 Bearing set, rod (2 req.)	---
21477 Cyl base seal	---
530917 Crankshaft seal taper	---
SA402151 Ex. stud	---
22022 Ex. nut	---
646612 Exhaust Valve	---
653728 Gasket, rocker	---
632837 Gasket, no-blow	---
22250 Gasket, intake	---
646539-A1 Gasket set, moh	---
21185 Intake hose	---
641792 Intake Valve (30 degree)	---
530019 Nose seal, flange sft	---
530830 Piston pin	---
539840 Push rod packing	---
649632-A1 Single Cylinder Ring Set	---
O-200	
627246-A1 Bearing set, main	
639640 Bearing set, rod (2 req.)	---
21477 Cyl base seal	---
530019 Crankshaft seal	---
SA402151 Ex. stud	---
22022 Ex. nut	---
646612 Exhaust Valve	---
530162 Gasket, rocker	---
627429 Gasket, no-blow	---
22250 Gasket, intake	---
646539-A1 Gasket set, moh	---
22800 Intake hose	---
641792 Intake Valve (30°)	---
646255 Piston	---
530830 Piston pin	---
539840 Push rod packing	---
649632-A1 Single Cylinder Ring Set	---
653394 Single Cylinder ring set	---
O-300	
639640 Bearing set, rod (2 req.)	---
21477 Cyl base seal	---
530917 Crankshaft seal	---
SA402151 Ex. stud	---
22022 Ex. nut	---
646612 Exhaust Valve	---
530162 Gasket, rocker	---
627429 Gasket, no-blow	---
22250 Gasket, intake	---
6465417-A1 Gasket set, moh	---
21185 Intake hose	---
641792 Intake Valve (30°)	---
646255 Piston	---
530830 Piston pin	---
539840 Push rod packing	---
649632-A1 Single Cylinder Ring Set	---
625958 Springs outer	---
O-470 ANGLE HEAD	
653888 Camshaft follower tappet	---
SSR532200 Cyl base seal	---
PA641250 Crankshaft seal	---
SSR401893 Ex. stud	---
Ex. nut MS20500-428	---
643967 Ex. nut	---
SA643873 Exhaust Valve	---
653191 Gasket, rocker, angle	---
SSR536413 Gasket, intake	---
642917-1 Intake hose	---
646263 Piston	---

	Price Each
539467 Piston pin	---
SA534610 Push rod packing	---
649226 Ring set, steel barrel	---
649226CP Ring set, chrm barrel	---
SSR539740 Rocker shaft	---
637837 Spring, valve, outer	---
631521 Springs, valve, inner	---
SA539740 Rocker Shaft	---
IO-470 ANGLE HEAD	
SSR532200 Cyl base seal	---
PA641250 Crankshaft seal	---
SA402151 Ex. stud	---
Ex. nut MS20500-428	---
643967 Ex. nut	---
SA643873 Exhaust Valve	---
653191 Gasket, rocker, angle head	---
628260 Gasket, no-blow	---
SSR536413 Gasket, intake	---
642917-1 Intake hose	---
646283 Intake Valve	---
539467 Piston pin	---
SA534610 Push rod packing	---
SSR539740 Rocker shaft	---
SA539740 Rocker Shaft	---
IO-520 TSIO-520	
630826 Bearing set, rod	---
653888 Camshaft follower tappet	---
SSR641066 Cyl base seal	---
PA641250 Crankshaft seal	---
SSR401893 Ex. stud	---
SSR638125 Ex. stud, rosan	---
Ex. nut MS20500-428	---
643967 Ex. nut	---
SA643873 Exhaust Valve	---
653191 Gasket, rocker	---
SSR536413 Gasket, intake	---
642917-1 Intake hose	---
646283 Intake Valve	---
654850 Piston IO-520	---
630046 Piston pin	---
SA534610 Push rod packing	---
652148 Ring set, steel cyl IO-520	---
SA539740 Rocker Shaft	---
CONTINENTAL ENGINE BELTS	
539547-30.00	---
539547-31.19	---
539547-32.00	---
539547-35.00	---
642759	---
37A19773-376 (76026)	---
37A19773-382 (74519)	---
37B19774-325 (60886)	---
37B19774-341 (71579)	---

AIRCRAFT SPRUCE CARRIES THE COMPLETE CONTINENTAL MOTORS PRODUCT LINE. SEE OUR WEBSITE FOR PART NUMBERS AND PRICING.

LYCOMING ENGINE PARTS

O-235 L,N SERIES	Price Each
69373 Bearing, rod, 8 req.	---
71105 Camshaft follower tappet	---
SSR62869 Cyl base seal	---
STD-2180 Cyl drain hose	---
LW-11997 Crankshaft seal	---
SSR31C-12 Ex. stud	---
STD-1410 Ex. nut	---
41271	
Fuel pump, mechanical	---
77611 Gasket, no-blow	---
71973 Gasket, intake	---
SSR61499-1	
Gasket set, moh	---
SSRSTD-1196	
Intake hose 1-1/2"	---
SSRLW-13445 Piston pin	---
68028 Piston pin plug	---
SSRLW-18661	
Push rod packing	---
SL60592 Carb. Gaslet	---
O-290	
69373 Bearing, Rod	---
SSR71481 Cyl base seal	---
SSR31C-12 Ex. stud	---
STD-1410 Ex. nut	---
41271	
Fuel pump, mechanical	---
77611 Gasket, no-blow	---
71973 Gasket, intake	---
SSR69371-1	
Gasket set, moh	---
SSRSTD-1196	
Intake hose 1-1/2"	---
Intake Valve 73938	---
SSRLW-18661	
Push rod packing	---
62916 Ring,	
compression steel cylinder	---
69401 Ring,	
oil control steel cyl	---
69373 Bearing, rod	---
SSR71481 Cyl base seal	---
LW-11997 Crankshaft seal	---
SSR31C-12 Ex. stud	---
STD-1410 Ex. nut	---
LW-19001 Exhaust Valve	---
SL60592 Carb. Gasket	---
LYCOMING CYLINDERS	
LW15318 O320H new ass'y	---
LW12988 O540/HIO360	
new ass'y	---
O-320	
71973 Gasket, intake	---
SSRSTD-1196	
Intake hose 1-1/2	---

	Price Each
69603 Intake hose 1-3/4	---
73938 Intake Valve	---
75089	
Piston, high compression	---
75413	
Piston, low compression	---
SSRLW-13444 Piston pin	---
SSRLW-18661	
Push rod packing	---
74241 Ring, compression	
steel cylinder	---
SSR73857	
Ring, oil ctl steel cylinder	---
SL11997 Crankshaft Seal	---
SL66224 Carb. Gasket	---
66224 Lyc. Carb. Gasket	---
RG-72059 Dipstick Tube Base Gasket	---
O,IO-360	
SSA72877 Camshaft follower	---
SSR71481 Cyl base seal	---
LW-11997 Crankshaft seal	---
SSR31C-12 Ex. stud	---
STD-1410 Ex. nut	---
LW-19001 Exhaust Valve	---
62B26931 Fuel pump, mech.	---
77611 Gasket, no-blow	---
71973 Gasket, intake	---
SSR75439-1	
Gasket set, moh	---
69603 Intake hose 1-3/4"	---
75089	
Piston, high compression	---
SSRLW-18661	
Push rod packing	---
74241 Ring, comp steel cyl	---
SSR73857	
Ring, oil ctk steel cyl	---
SL66224 Carb. Gasket	---
O,IO-540	
SSR71481 Cyl base seal	---
13792 Crankshaft seal	---
SSR31C-12 Ex. stud	---
STD-1410 Ex. nut	---
LW15473 Fuel pump, mech.	---
77611 Gasket, no-blow	---
71973 Gasket, intake	---
SSR71569-1 Gasket set, moh	---
69603 Intake hose 1-3/4"	---
73938 Intake Valve	---
75089 Piston	---
60828 Piston pin plugs	---
74241 Ring, comp steel cyl	---
SSR73857	
Ring, oil ctl, steel cyl	---
SL66224 Carb. Gasket	---

AIRCRAFT SPRUCE CARRIES THE COMPLETE LYCOMING PRODUCT LINE. SEE OUR WEBSITE FOR PART NUMBERS AND PRICING.

CHALLENGER AIR FILTERS

CHALLENGER AVIATION HIGH-FLOW AIR FILTER W/ K&N FILTER MEDIA

Features & Benefits of Prime air filters: • 40% - 50% better airflow • Can be washed and serviced up to 25 times • Increase horse power 2%-4% • Save money and improve engine efficiency • FAA-PMA approved • Properly serviced, can be used to TBO of an engine • Ecologically sound • Better takeoff and climb-out performance • Fire retardant • Faster airspeed and/or better fuel consumption • Have been used on high performance vehicles for 40yrs • Accordion fold design provides up to 5 times the filtering surface of non-pleated designs.
PART NUMBERS WITH A -1 INCLUDE GREASE.

Model	Application	Installation	Part No.	Price
CPE-1957	Aero Commander - A-9, A9A, A9B	Brackett BA-104 Fram CA-161PL	08-00721-1	---
CP-1150	Aeronca - S65, S65CA, 7AC, 7ACA, 7 BCM(L-16A) ARMY, 7CCM(6-16B) ARMY, 7DC, 7EC, 7FC, 7JC, 7ECA, 7GCAA, 7GCBC, 7KC, 7KCAB, S7AC, S7CCM, S7DC, S7EC P/N CP-3274 is the installation kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106	08-00843	---
CPE-1957	Aeronca - 7GC, 7GCA, 7HC, 7GCB, 7GCBA, 7KC	Donaldson P10-4145, Fram CA-161-PL, Air Maze 13203	08-00721-1	---
CP-2004	Beech Baron - 95-C55 S/N TE-1 thru TE-451 except TE-50, 95-C55A S/N TE-1 Thru TE-451 Except TE-50, D55 S/N TE-452 Thru TE-492, D55A S/N TE-452 Thru TE-492, E55 S/N TE-768 Thru TE-1079, E55A S/N TE-768 Thru TE-1079 , 58 S/N TH1-TH740 No sealing grease or gasket required for this application.	Donaldson P12-7996, Air Maze 121128-2, Brackett BA-6210-1	08-01024	---
CPE-1957	Beech Musketeer - A23A, A23, A23-24, B23, 23	Brackett BA-104, Beech 169-3	08-07101	---
CP-1182	Bellanca - 14-19-3-A, 17-30 P/N CP-3276 Is the install kit. Use P/N CP-2602 To replace gasket at annual.	Brackett BA-8110	08-00870	---
CPE-1957	Bellanca - 17-30A	Brackett BA-104	08-00721-1	---
CPE-1957	Brantly B2B	Fram CA161PL	08-00721-1	---
CP-1150	Cessna - 120, 140, 150, 150A-M, A150K, A150L, A150M, 152, A152 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106, Donaldson P10-7150, Cessna C294510-0201	08-00843	---
CP-1172	Cessna - 170, 170A, 170B, 172, 172A-G, H, I, K, L, M, N, P, Q P/N CP-3274 Is the install kit. Use P/N CP-2302 To replace gasket at annual.	Cessna C294510-0301, Donaldson P10-7172, Brackett BA-5110	08-00902	---
CPE-1173	Cessna - 172R, S	Donaldson P198281, Fram 3559	08-00894-1	---
CP-1182	Cessna - 180, (exception 1953-1955 models), 180A-H, 180J-K, 182, 182A-H, 182J-R, T182T S/N T18208001 AND ON, 182T S/N 18280945 AND ON, 185, 185A-E, A185E, A185F P/N CP-3276 Is the install kit. Use P/N CP-2602 To replace gasket at annual.	Cessna 0750038-1-4, Donaldson P10-6150, Brackett BA-8110	08-00870	---
CPE-1202	Cessna - 182S, S/N >s 18280001 thru 18280944	Donaldson P19-8290, Fram CA3717	08-00903-1	---
CPE-1178	Cirrus - SR-20, SR-22 No sealing grease required for this application.	Brackett BA-111	08-01221	---
CPE-2175	Cirrus - SR-22 with STC SA10925SC	BA-111	08-07404	---
CP-2175	Great Lakes - 2T1A-1, 2T1A-2	12009, P57A, AC-6486197 BA-101	08-06282	---
CP-4423	Enstrom Helicopter - F-28A	CA151PL, A86A, AFP5	08-07388-1	---
CPE-1040	Grumman - AG CAT G164B	Brackett BA-105	08-00717-1	---
CPE-1957	Lavia S.A. - PA25, PA25-235, PA25-260(PRIOR TO S/N 1477)	Fram CA-161PL, Brackett BA-104	08-00721-1	---
CP-1150	Luscombe - 8, 8A, 8B, 8C, 8D, 8E, 8F, T-8F P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106	08-00843	---
CP-1172	Maule - M-4, M-4T, M-4C, M-4S, M-4-180C, M-4-180S, M-180T, M-4-220, M-4-220C,M-4-220S, M-4-220T, M-5-180C, MX-7-160, MX-7-180,M-5-210C, M-5-235C, M-5-210TC, M-5-220C, M-6-180, M-6-235, M-7-235 P/N CP-3274 Is the install kit. Use P/N CP-2302 To replace gasket at annual.	Brackett BA-6110, Donaldson P12-6491	08-00902	---
CPE-1178	Maule - M-4-210, M-4-210C, M-4-210S, M-4-210T, M-5-210C No sealing grease required for this application.	Brackett BA-111	08-01221	---
CP-1150	Mooney - M10 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106, Donaldson P12-0494	08-00843	---
CP-1172	Mooney - M20, M20A, M20B, M20C, M20D, M20G P/N CP-3274 Is the install kit. Use P/N CP-2302 To replace gasket at annual.	Fram 13219, Brackett BA-6110, Donaldson P12-6491	08-00902	---
CP-1176	Mooney - M20 E, F Replacement Gasket P/N-CP-2802	Donaldson P10-4065 Brackett BA-6310	08-01031	---
CP-1174	Mooney - M20J (201)	Brackett BA-6210	08-00896	---
CP-1175	Mooney - M20K S/N 25-1000 & UP	Donaldson P13-6287	08-01020-1	---
CPE-1179	Mooney - M20M, M20R, M20S	Mooney 600417-503, AM EDD4028, Donaldson P524257	08-01263-1	---
CPE-1151	Piper - PA-18 S/N 18-6964 and up O-320	Piper 454-118, Fram CA-122PL, Brackett BA-112	08-01032-1	---
CPE-1040	Piper - PA28R-180, PA28R-200, PA28R-200T, PA28R-201, PA28RT-201, PA28R-201T, PA30, PA-34-200, PA39, PA44-180, PA44-180T	Piper 460-630 Brackett BA-105	08-00717-1	---

CHALLENGER AIR FILTERS

CHALLENGER AVIATION HIGH-FLOW AIR FILTER W/ K&N FILTER MEDIA

(CONTINUED FROM PREVIOUS PAGE)

Model	Application	Installation	Part No.	Price
CPE-1957	Piper - PA23-235A, PA23-235B , PA23-250B, PA-24 S/N 1479 and up, PA24-180 S/N 1477 and up, PA24-250 S/N 1477 and up, PA24-260, PA25-150, PA25-235, PA25-260 PRIOR TO S/N1477, PA28-140, PA28-150, PA28-160, PA28-180 ,PA28-181,PA28RT-201T, PA28-235,*PA32-260,*PA32-300 S/N 32-7640001 & UP, *PA32R-300, *PA32RT-300, *PA32RT-300T, *PA32R-301 (SP), *PA34-200T, *PA34-220T, *PA36 W/ Cont . *Cover plate cpe-0528 may be required when replacing brackett filter.	Fram CA-161PL, Piper 460-632, Brackett BA-104, PURO AFP-2, AC-6485710	08-00721-1	---
CP-1150	Piper - J3, J3C-65, J3C-65S, J5A, J5A-80, PA-11, PA-11S, PA-12, PA-12S, PA-16, PA-17, PA-18, PA-18A, PA-18S, PA-18-105, PA-20-115 PA-20-135, PA-22-108,PA-22-135, PA-22-150,PA-22-160, PA-38-112 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106, Piper 460-638	08-00843	---
CPE-1956	Piper - PA28-151, 161 REPLACEMENT GASKET P/N CP-2604.	Brackett BA-16, Piper 560-679	08-01033	---
CP-3202	Piper - PA-31-300, PA31-310, PA-31-325, PA-31-350, PA-32RT-300T	460-817 560-747 P10-6590	08-07405	---
CP-1150	Reims/(Cessna) F150G, F150H, F150J, F150K, F150L, F150M, FA150K, FA150L, F152, FA152 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Cessna C294510-0201 Brackett BA-4106 Donaldson P10-7150	08-00843	---
CP-1172	Reims/(Cessna) - F172D, F172E,F172G, F172H, F172K, F172L, F172M P/N CP-3274 Is the install kit. Use P/N CP-2302 To replace gasket at annual.	Cessna C294510-0301 Brackett BA-5110 Donaldson P10-7172	08-00902	---
CPE-1220	Robinson - R-44	Robinson C771-1	08-00720-1	---
CP-4422	Robinson - R44 II	C-771-2	08-07380-1	---
CPE-1104	Robinson - R-22	Robinson A771-1 Brackett BA-110	08-01021-1	---
Cp-2100	Rockwell Commander - 100-180, 112, 112b	124748-019 Brackett BA-3910	08-05915	---
CP-1172	Socata - TB9, TB10 P/N CP-3274 Is the install kit. Use P/N CP-2302 To replace gasket at annual.	Brackett BA-5110	08-00902	---
CP-1150	Taylorcraft - BF65, BF12-65, BFS65 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106	08-00843	---
CP-1150	Tiger Aircraft/Llc/Gulfstream American - AA-1, AA-1A, AA-1B, AA-1C, AA-5 P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4210 AMS13202	08-00843	---
CP-1960	Tiger Aircraft / Gulfstream American - AA5A	Brackett BA-19	08-07307	---
CP-1958	Tiger Aircraft/Gulfstream American - Tiger Aa-5b	Brackett BA-4106	08-01022-1	---
CP-1150	Univair - A-2, A2A (FORNEY) F-1, F-1A - P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106	08-00843	---
CP-1150	Globe/Swift - Swift GC-1A, GC-1B P/N CP-3274 Is the install kit. Use P/N CP-2402 to replace gasket at annual.	Brackett BA-4106	08-00843	---
CP-2010	Waco Aircraft - UPF-7	22756-B	08-07389-1	---

CHALLENGER AIR FILTER ACCESSORIES

Aircraft	Type	Challenger Part No.	Part No.	Price
CP-2003 Beech Bonanza	Gasket	CP-2502	08-01041	---
CP-2055 Beech Baron 55, A55, B55	Gasket	CP-1505	08-07357	---
CP-2175 Cessna 175, 175A-C	Gasket	CP-2775	08-07358	---
CP-2182 Cessna R182, TR182, T182	Gasket	CP-2782	08-07360	---
CP-1150 Cessna 140, 150, 152	Gasket	CP-2402	08-01043	---
CP-1172 Cessna 170, 172	Gasket	CP-2302	08-01044	---
CP-1182 Cessna 180, 182, 185	Gasket	CP-2602	08-01045	---
CP-1177 Cessna Cardinal 177	Gasket	CP-1504	08-01264	---
CP-1178 Cirrus SR-20, SR22	Gasket	CP-2902	08-07364	---
CP-1176 Mooney 20E, F	Gasket	CP-2802	08-01047	---
CP-1174 Mooney M20J	Gasket	CP-2202	08-01048	---
CP-5502A Air Tractor AT-502A / AT-602	Gasket	CP-2705	08-07361	---
CP-5502 Air Tractor AT-402/502/502B/503A	Gasket	CP-2704	08-07359	---
CPE-1956 Piper PA-28-151, 161	Gasket	CP-2604	08-01046	---
CPE-1957 Piper Oval Cover	Gasket	CP-2102	08-01049	---
CPE-1040 Piper Round	Gasket	CP-2702	08-01050	---
All Models	Re-Charger Kit	CP-99-5050	08-05884	---
* Various Models	Sealing Grease	CP-99-0704	08-04954	---

CHALLENGER RE-CHARGING KIT

Challenger's recharger kit includes non-aerosol bottles of air filter cleaner and air filter oil for recharging air filters. Restores airflow efficiency.

P/N 08-05884 ..... ---

CHALLENGER SEALING GREASE

K&N Sealing Grease provides an airtight fit around sealing surfaces on all types of air filter elements. It resists heat and will not melt or run off. K&N sealing grease is not to be used on clamp-on filter elements. 6 oz. Squeeze Tube. .....P/N 08-04954 ..... ---

If you do not see your application here, or for more CHALLENGER AIR FILTER ACCESSORIES, please call or VISIT OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM

BRACKETT AIR FILTERS

The specially treated polyurethane element in the Brackett filter assures near total protection from any foreign material entering the system. Repels water, fire retardant and has good air flow for proper fuel/air ratio. Has no pleats to collect dirt. Low-cost maintenance with increased engine life. FAA approved. Replace original air filter unit with a Brackett assembly. Thereafter, throw away element and replace with new one at minimal cost.

Aircraft Model Assembly	Air Filter P/N	Assy Price	Element P/N	Element Price
Aero Commander: A9, A9A, A9B	BA104	---	BA3	---
100-100A	BA8910	---	BA8905	--
100-180,112,112A,112B	BA3910	--	BA3905	---
112TC,112TC-A,114,114A	BA4010	---	BA4005	--
500A-B,560F,680F,FL,FLP,500U	BA151	--	BA151E	--
560, 560A, 560E, 680 - L	BA2610L	---	BA2605L	---
560, 560A, 560E, 680 - R	BA2610R	---	BA2605R	---
Aircoupe: 415C, CD, D, E, G	BA8810	---	BA8805	---
F-1, A-1, A2-2	BA4106	--	BA4108	--
Beech: 23, A23, A23A, A23-19	BA104	---	BA3	---
A23-19A, A-23-24, B23	BA104	---	BA3	---
C-23, C24R, A24R, B24R, B19	BA7510	---	BA7305	--
33, A33, B33, C33, E33, F33	BA7110	--	BA7112	--
C33A,E33A,E33,F33A,F33C,G33	BA7210	--	BA7112	--
35, A35, B35 thru S/N2605	BA7310	--	BA7305	--
B35,C35,D35,E35,F35,G35,H35,J35	BA7110	--	BA7112	--
K35, M35, N35, P35, 35R	BA7110	--	BA7112	--
S35 thru S/N D7671	BA7410	--	BA7112	--
S35, V35, V35A, V35B,36,A36	BA7210	--	BA7112	--
A36TC, B36TC, A45(T-34)	BA7210	--	BA7112	--
B45((T-34A), D45(T-34B)	BA7210	--	BA7112	--
W/STC SA1450 SW Cont.IO-52O	BA7210	--	BA7112	--
E50 (L-23D, RL-23D),F50	BA100	---	BA7	---
55, A55, B55	BA7610	---	BA7605	---
G50, H50, J50	BA100	---	BA7	---
C55, D55, E55, 355	BA6210-1	--	BA6205	---
S/N TE768-1078 58 thru S/N TH 740	BA6210-1	--	BA6205	---
E55, 355A, SN TE-1079 & up	BA7710	---	BA7705	---
58, 58A, SN TH741 & up	BA7710	---	BA7705	---
A65, 70, 65-B80, B88	BA100	---	BA7	---
76	BA7010	--	BA7005	--
77	BA2010	--	BA6108	---
95, B95, B95A, D95A	BA7810	---	BA7805	---
Bell:				
47G-2, 47G2A, 47G2A-1, 47G-3, 47G-3B	BA102	---	BA2	--
47G-3B-1, 47G-3B-2, 47G-3B 2A, 47J, 47J-2	BA102	---	BA2	--
47J-2A,47G-3B,47G-3B,47G-3B-1	BA102	---	BA2	--
47G-3B-2,47G-4,47G-4A,47G-5,47J-2,47J-2A	BA103	---	BA9	--
Bellanca: 14-19-3A, 17-30	BA8110	---	BA8103-1	---
17-30A	BA104	---	BA3	---
Brantly: B-2, B-2B	BA104	---	BA3	---
Cessna: 340,340A,402C,414,414A	BA109	---	BA22	---
402B,SN0801 & after,421,T310R	BA108	---	BA13	---
421A, 421B, 421C, T310R	BA108	---	BA13	---
337, 337A-H, R172K, F337E-,336,T41B-D	BA111	---	BA24	---
P337, T337 Rear Engine,172RG	BA5810	--	BA5805	---
R182, TR182, T-182, FR182	BA2510	---	BA2505	---
190, 195, 195A, 195B	BA8410	---	BA8405	---
120,140,140A,150,150A-M,152,152A	BA4106	---	BA4108	---
170, 170A-M,172, 172A-M	BA5110	---	BA6108	---
172N, 172P, F172N, F172P	BA5110A	---	BA6108	---
175, 175A-C, L-19	BA101	---	BA8	---
177, 177A, B, RG, F177RG	BA5710	---	BA5705	---
180 ('53-'55)	BA8010	---	BA8005	---
180A-K, 182, 182A-R, F182P, F182Q	BA8110	---	BA8103-1	---
185,185A-E,A185E,A185F	BA8110	---	BA8103-1	---
188, 188A	N/A	--	BA14	---
205,205A,210,210A,B,C,310A,B,C,D	BA2110	---	BA2305	---
P206A-E, U206A-G, 207, 207A	BA2210L	---	BA2205-L	--
210D-N (to SN 64535 w/o air)	BA2210L	---	BA2205-L	--
210D-N (to SN 64535 w/o air)	BA2210R	---	BA2205-R	---
210N (SN645436 & up w/air), 210R, T210F–N	BA2410	---	BA2405	---
P210 All	BA8710	--	BA8705	---
310F thru L	BA2310	---	BA2305	---
310N-Q, T310P, T310Q, 401 S/N 145-401B S/N 221, 402 S/N 145-402B S/N 800	BA107	--	BA12	--
310R	--	--	BA117	---
F150GthruM,FA150K-L,F152,FA152	BA4106	---	BA4108	---
R172K, FR172E-K	BA111	---	BA24	---
TP206,TP206A-E,TU206A-G, T207, T207A	BA2410	---	BA2405	---
411, 411A	BA-3810	--	BA3805	--
Bobcat T-50, AT-17, UC-78, JRC-1	N/A	---	BA2705	---

BRACKETT AIR FILTERS

Aircraft Model Assembly	Air Filter P/N	Assembly Price	Element P/N	Element Price
Champion: 7GC,7GCA,7GCBC,7HC	BA104	---	BA3	---
8KCAB, 8GCBC, 7KCAB, 7GCBC, 7GCAA	BA8110	---	BA8103-1	---
7GCAA, 7GCBC, 7KCAB, 8KCAB, 7ECA	BA106	---	BA11	---
7ECAw/Cont.0-200-, 7ACA, 7ECA, 7FC, 65CA	BA4106	---	BA4108	---
Cirrus: SR20 & SR22 Non-Turbo	BA111	---	BA24	---
DeHavilland: DHC-2 (L-20)	BA8210-1	---	BA8205	---
Great Lakes: 2TIA-2	BA101	---	BA8	---
Helio: H295	N/A	---	BA21	---
Hiller: UH-12, UH-12-E	BA102	---	BA2	---
Grumman American				
AA-1,AA-1A,AA-1B,AA-5,AA- 1C,AA-5	BA4210	---	BA4108	---
AA-5B-Tiger, GA-7, G164B	N/A	---	BA20	---
AgCat, G164, G164A	BA8210	---	BA8205	---
AA5A	N/A	---	BA19	---
Hughes: 269A,269A-1,269B-C	BA102	---	BA2	---
Lake: LA4, LA4-200	BA3110	---	BA7305	---
Luscombe: 8, 8A thru 8F, T8F	BA4106	---	BA4108	---
Maule: M-4-210T, M-5-210C	BA111	---	BA24	---
M-4-210,M-4-210C,M-4-210-S	BA111	---	BA24	---
MA-4, M-4C, M-4S, M-4T	BA6110	---	BA6108	---
M-4-220, M-4-220C, M-4-220S	BA6110	---	BA6108	---
M-4-220T, M-4-180C, M-4-180S	BA6110	---	BA6108	---
M-4-180T, M-5-220C, M-5-235C	BA6110	---	BA6108	---
M-5-180C, M-5-210C, M-6-180	BA6110	---	BA6108	---
M-6-235, MX7-180, M-7-235	BA6110	---	BA6108	---
Mooney: M-10	BA4106	---	BA4108	---
M-18C	BA5110	---	BA4108	---
M20, M20A, B, C, D, G	BA6110	---	BA6108	---
M20E, F	BA6310	---	BA6305	---
M20J	BA6210	---	BA6205	---
Navion: A with (E) Series Engines	BA113	---	BA25	---
B: G, H, or with 10-470	BA4310	---	BA4305	---
North American: AT6 (SNJ)	N/A	---	BA8305	---
Partenavia: P68, P68B, P68C	N/A	---	BA162E	---
Piper: 600, 601	N/A	---	BA4	---
J-3,J-4,J5,PA-11,11S,12,12S,16,17	BA4106	---	BA4108	---
PA-18,19,20,115,135,PA-22-ALL	BA4106	---	BA4108	---
PA-18-“150”,18A-“150”,18S - “150”,18S-”150”	BA112	---	BA13	---
SN18-6964 & up w/TCDS Item 110 Installed	BA112	---	BA13	---
PA-23,160,24-180 up to SN1476	BA3110A	---	BA7305	---
PA-24-250 up to SN 1476	BA3210	---	BA3205	---
PA-23-235, 250, PA-25-235, 260	BA104	---	BA3	---
PA-28-140, 150, 160, 180, 235	BA104	---	BA3	---
PA-28-181, 201T, PA-28R-201T	BA104	---	BA3	---
PA-28RT-201T, PA-32-260,	BA104	---	BA3	---
PA-23-250,E23-250,SN27 2505 & up	BA115	---	BA15	---
PA-23-250, E23-250, w/Turbo Lyc.	N/A	---	BA3505	---
PA-23-250 w/Air Research Turbo	N/A	---	BA8605	---
PA-24-180 & PA-24-250 SN1477 & up	BA104	---	BA3	---
PA-24-25 SN103-1476 w/Piper Kit 754-285 Install	BA104	---	BA3	---
PA-24-260 SN4000-4802 except 24-4783	BA104	---	BA3	---
PA-32-300 SN76-40001&up	BA104	---	BA3	---
PA-32R-300,PA-32RT-300,PA-32R-301	BA104	---	BA3	---
PA-34-200T, 220T	BA104	---	BA3	---
PA-28R-201,PA-28RT-201,PA-28R-180, PA-28R-200	BA105	---	BA10	---
PA-28-236 S/N 28-7911283 & Up	BA2910	---	BA2905	---
PA-30-160	BA105	---	BA10	---
PA-31P, 31P-350	N/A	**N/A**	BA3305	---
PA-38	BA4106	---	BA4108	---
PA-28-151,161	N/A	**N/A**	BA16	---
PA-28-236 SN 28-7911283 & up	BA2910	---	BA2905	---
PA30, with Ray Jay Turbo	BA121	---	BA27	---
PA31, PA-31-300, -310, -325,-350	BA100	---	BA7	---
PA-31P, 31P-350	N/A	**N/A**	BA3305	---
PA-32-300 w/I0-540-K1A5	BA115	---	BA15	---
PA-32RT-300T	BA100	---	BA7	---
PA-32-301T, 32R-301T	BA100	---	BA7	---
PA-34-200w/LYCI0360C01ES or LI0-360-C1E6	BA105	---	BA10	---
PA-44-180T	N/A	**N/A**	BA3505	---
Robinson: R22	BA110	---	BA23	---
Stearman: All Series 75	BA118	---	BA18	---
Stinson: 108, 108-1, -2 ,-3	BA9110	---	BA9105	---
Swift: GC-1A, GC-1B	BA4106	---	BA4108	---
Taylorcraft	BA4106	---	BA4108	---
Varga: 2150A	BA4106	---	BA4108	---
Vultee: BT-13	RA2810	---	BA2805	---

SEE WWW.AIRCRAFTSPRUCE.COM FOR REPLACEMENT BRACKETT AIRFILTER GRILLS & GASKETS

DONALDSON AIR FILTERS

Donaldson has been the OEM source for Cessna, Piper, Beechcraft, and Maule & Mooney since the 1960's. They currently supply Cessna all of their SE Piston aircraft filters, Beech Bonanza & Baron filters, Mooney & Maul with their filters. For Piper they currently supply all of their Turbo charge aircraft with filters. Aircraft Spruce is a factory authorized distributor for Donaldson filters.

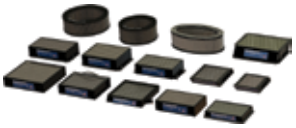
Features: • High Performance Engine Intake Filters • Synthetic media: offers improved air flow and better dust capturing efficiency • Engineered to last 500 Flight Hours • Washable filter element, use compressed air/warm soapy water • Clean installation: dry media, no sticky/messy oil to trap dirt • OEM choice for GA aircraft for over 30 years • Meets All Flammability requirements per FAR 23.853 • Solid Construction with no removable parts-no loose screens, elements or screws • Exceptional wet weather performance, no oil to wash away in wet weather • Moisture passes thru the filter, doesn't build up an oiled surfaces (no oil present) • All filters starting with "P" feature our Premium Synthetic filter media • No Airworthiness Directives against Synthetic media filters • Cost efficient over the life of the filter, 3 years, 500 FH 5 cleanings

Only filters with * after part number have cellulous media

Donaldson	OEM	Description	Part No.	Price
P107150	C-294510-0201, 13203	C-150/152 & Various others Engine Intake air filter	08-06027	---
P107172	C-294510-0301, 13219	C-170/172 Engine Intake air filter	08-06024	---
P15-1936	PS600073 / 561-020	Piper PA-32R *(Engine Intake air filter)	08-06029	---
P107336	C-294510-0401	C-172XP/ 337 Engine Intake air filter	08-06038	---
AM102035FP	C-294510-0501	Engine Intake air filter	08-06052	---
P106150	0750038-4	C-180/182/185 Engine Intake air filter	08-06023	---
P131367	C-294510-0901	TR182/182R Engine Intake air filter	08-06042	---
AM102135FP	1250704-3	C-206/207/210 Engine Intake air filter	08-06033	---
AM102235FP	1250704-4	C-210 Engine Intake air filter	08-06046	---
P107210	1250846-1	T206/T207/T210 Engine Intake air filter	08-06047	---
P131364	C-294510-0801	T210N/P Engine Intake air filter	08-06049	---
P108421	99100181	T310/320/335/401/402/421 Engine Intake air filter	08-06056	---
P109337	C-294510-0701	337/T337 Engine Intake air filter	08-06051	---
AM102035FP	C-294510-0501	Engine Intake air filter	08-06052	---
AM102735EA	9910018-2	310/401/402 Engine Intake air filter	08-06054	---
AM102935EA	9910200-1	310R Engine Intake air filter	08-06055	---
P128156	9913001-1	340/414 Engine Intake air filter	08-06028	---
P128157	9910141-1	404 Engine Intake air filter	08-06057	---
EBG03-0001	C-294501-0101	Instrument Air Filter Assembly, Cover & Filter element	08-06059	---
P105290	C-294501-0203	Replaceable instrument Instrument air filter only, part of EBG03-0002 assy	08-06060	---
AM103435IA	C-294501-0301	Instrument Air Filter	08-06035	---
AM103535IA	C-294501-0302	Instrument Air Filter	08-06036	---
P130374	45-91210, 13917	Debonair & Early Bonanza Engine Intake air filter	08-06062	---
P105304	35-380035-5, -1	Bonanza Engine Intake air filter	08-06032	---
P137627	35-380035-7	Bonanza Engine Intake air filter	08-06026	---
P136680	105-389000-3	B76 Engine Intake air filter	08-06063	---
P133881	P13-3881	B77 Engine Intake air filter	08-06064	---
P128219	P12-8219, 122601, AM101020FP	95-55, A55, B55 Baron Engine Intake air filter	08-06065	---
P127996	P12-7996, 121128-2, AM101120FP	C55, D55, E55 & 58 Baron Engine Intake air filter	08-06066	---
P12-8167	96-389005-1	E55 & 58 Baron Engine Intake air filter	08-06025	---
P108700	50-389070-15	Duke Engine Intake air filter	08-06067	---
P124439	50-389070-23	58P Baron Engine Intake air filter	08-06069	---
P105798	50-389070-11	A65, 70, B80 Engine Intake air filter	08-06070	---
EBG03-0003	205538-089	Instrument air filter	08-06072	---
EBG03-0018	101-380039-1	King Air Instrument air filter	08-06034	---
P136602	560-584	PA-28-236 Engine Intake air filter	08-06074	---
P138683	560-904	PA-28-236 Engine Intake air filter	08-06075	---
P106590	560-747	PA-31 Engine Intake air filter	08-06076	---
	460-609	PA-31P Engine Intake air filter	08-06077	---
P136739	560-947	PA-32 Engine Intake air filter	08-06078	---
P138580	86881-2, 560-953	PA-44T Engine Intake air filter	08-06080	---
AM108365FP	P13-6287	M20K Engine Intake air filter	08-06081	---
204418-156	77852	Lycoming Engine Spin on oil Filter adapter	08-06037	---
P11-0172	C-294510-0601	Engine Intake air filter	08-06228	---
P198281	P198281, CA3559	172R & 172S Engine Intake Filter	08-07051	---
P198290	P198290, CA3717	182S Engine Intake Filter	08-07052	---
P197268	P197268	T206H Engine Intake Filter	08-07053	---
P13-0234	125997-010, BA6210	M20J Engine Intake Filter	08-07054	---
ED04011	600417-501	M20K (s/n 25-1000 and up) engine intake Filter	08-07055	---
ED04028	600417-503	M20M/R/S Engine Intake Filter	08-07056	---
P10-5225	C-294501-0103	Various Instrument Air Filter	08-07057	---
P617058	460-632	Oval Piper Filter PA28/PA34	08-07276	---
P617053	460-630	Round Piper Filter PA28/PA44	08-07277	---
P617774	460-629	Round Piper Filter PA23/32	08-07278	---
--	9546982 HBC, 6260A77 M0	Mooney M20J & M20K Air Filter Assembly Cover & Filter	08-15994	---
3034292WFC	3034292, 3034293, Alternate P-1010	Pratt & Whitney (Various Aircraft)	08-15978	---
WF334552	3029268 Alternate 3028856, 3029267 P-1018	Pratt & Whitney Canada (Various Aircraft)	08-15979	---
WF336238	3038142 P-1139	3038142 P-1139	08-15983	---

VISIT OUR WEBSITE FOR COMPLETE AIRCRAFT APPLICATION INFORMATION.

TEMPEST AIR FILTERS



TEMPEST AEROGUARD™ INDUCTION AIR FILTERS FAA-PMA

Tempest AeroGuard™ induction air filters are approved on a variety of Cessna, Piper, Beechcraft and Mooney aircraft. They are manufactured using a black anodized aluminum housing and screen to prevent corrosion and fragmented media from being ingested. Designed to keep your induction system clean in the dirtiest environments, the synthetic media offers maximum airflow while still filtering out 99% of contaminants larger than 5 microns. These induction air filters will provide you with the high quality and durability you've come to expect with Tempest products.

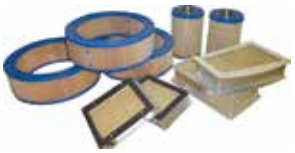
Features: • No minimum purchase order • Black Anodized Aluminum Housing • Greater media surface area provides maximum airflow for longer service intervals. • Greater than 99% of contaminants larger than 5 microns are filtered out. • Reusable and washable synthetic media maximizes airflow and filters contaminants more effectively. • Screen design prevents fragmented media from being ingested, improving safety, complying with FAR23.1107 (b).

Description	Donaldson	Brackett	Application	Part No.	Price
AA10-6150	P10-6150	BA-8110	**Alexandria Aircraft Bellanca:** 14-19-3A, 17-30 **American Champion:** 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC **Textron Aviation (Cessna):** 180A/B/C/D/E/F/G/H/J/K, 182, 182A/B/C/D/E/F/G/H/J/K/L/M /N/P/Q/R/S/T, T182T, 185, 185A/B/C/D/E, A185E, A185F, F182P/Q	08-17231	---
AA617058	P617058		**Alexandria Aircraft Bellanca:** 17-30A **Beechcraft:** 19A, 23, A23, A23A, A23-19/24, B23 **B-N Group:** BN-2, BN-2A, BN-2A-2/3/6/8/9/20/21/27, BN-2B-20/21/26/27 **Piper Aircraft:** PA-23-235/250, PA-24, PA-24-250/260, PA-28-140/150/160/180/181/ 201T/235, PA-28R-201T, PA-28RT-201T, PA-32-260/300/301/ 301FT, PA-32R-300, PA-32RT-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-34-200T/220T, PA-36-285/300/375	08-17232	---
AA10-7172	P10-7172	BA-5110	**Textron Aviation (Cessna):** 170, 170A/B, 172, 172A/B/C/D/E/G/I/K/L/M/N/P /Q, 172F (USAF T-41A), 172H (USAF-T41A), F172D/E/F/G/H/K/L/M/N/P **Diamond:** DA 40 F **Maule:** M-4, M-4C/S/T, M-4-180C/S/T, M-4-220, M-4-220C/S/T, M-5-180C, M-5-210C/TC, M-5-220C, M-5-253C, M-6-180, M-6-235, M-7-235, MX-7-180, MX-7-160 **Mooney:** M-18C, M20, M20A/B/C/D/G	08-17233	---
AA1034351A	---	---	---	08-17234	---
AA12-8167	P12-8167		**Textron Aviation Beech:** E55, E55A, 58	08-17235	---
AA1035351A	---	---	---	08-17236	---
AA10-7150	P10-7150	BA-4106	**Aeronca:** (Army L-3F) 65-CA, S-65-CA **American Champion:** 7AC, 7ACA, S7AC, (Army L-16A) 7BCM, (Army L-16B) 7CCM, S7CCM, 7DC, S7DC, 7EC, S7EC, 7ECA, 7FC, 7GCAA, 7GCBC, 7JC, 7KC, 7KCAB **American General:** AA-1, AA-1A/B/C, AA-5 **Augustair:** 2150A **Aviat Aircraft:** A-1 **Textron Aviation (Cessna):** 120, 140, 140A, 150, 150A/B/C/D/E/F/G/H/J/K/L/M, A150K/L/M, 152, A152, F150G/H/J/K/L/M, F152, FA150K/L, FA152 **Swift:** GC-1A/B **Luscombe:** 8, 8A/B/C/D/E/F, T-8F **Mooney:** M10 **Piper Aircraft:** J-3, J3C-65, J3C-65S, J4A, J4A-S, J4E (Army L-4E), J5A (Army L-4F), J5A-80, PA-11, PA-11S, PA-12, PA-12S, PA-16, PA-17, PA-18, PA-18A/S, PA-18 "125" (Army L-21A), PA-18S "125", PA-18AS "125", PA-18 "135" (Army L-21B), PA-18S "135", PA-18AS "135", PA-18 "150", PA-18A "150", PA-18S "150", PA-19 (Army L-18C), PA-18A (Restricted), PA-18A "135" (Restricted), PA-18A " 150" (Restricted), PA-20, PA-20 "115", PA-20 "135", PA-22, PA-38-112 **Taylorcraft:** BC-65, BCS-65, BC12-65 (Army L-2H), BCS12-65, BC12-D1, BCS12-D1, BC12D-85, BCS12D-85, BC12D-4-85, BC-S12D-4-85, BF-65, BFS-65, (Army L-2K) BF12-65, 19, F19, F21, F22, F22A/B/C, (Army L-2, L-2C) DC-65, (Army L-2A, -2B, -2M) DCO-65 **Univair:** F-1, F-1A, A-2, A2-A	08-17237	---
AA198290	---	---	**Cessna Aircraft:** 182S **Cirrus Aircraft:** SR20	08-17390	---
AA12-4439	P12-4439	---	**Textron Aviation (Beech):** 58P/TC	08-17238	---
AA617053	P617053		**Piper Aircraft:** PA-28R-180/200/201, PA-28RT-201/201T, PA-30, PA-34-200, PA-39, PA-44-180	08-17239	---
AA10-5304	P10-5304	---	**Textron Aviation (Beech):** 35-C33A, E33A, F33A, F33C, G33, S35, V35, V35A, V35B, 36, A36, V35TC	08-17240	---
AA12-7996	P12-7996	BA-6210-1	**Textron Aviation (Beech):** 95-C55, 95-C55A, D55, D55A, E55, E55A, 58	08-17241	---
AA617774	P617774		**Piper Aircraft:** PA-23-250, PA-E23-250, PA-32-300	08-17242	---
AA13-1367	P13-1367	BA-2510	**Textron Aviation (Cessna):** R/T/TR182	08-17243	---
AA13-0374	P13-0374	BA-7110	**Textron Aviation (Beech):** 35-33, 35-B33, 35-C33, E/F33, B/C/D/E/F/G/H/J/K/M/N/P35	08-17244	---
AA11-0172	P11-0172	BA-5710	**Textron Aviation (Cessna):** 177, 177A/B/RG	08-17245	---
AA8994656	---	---	**American Champion / Grumman:** AA-5B and GA-7	08-17578	---
AA10-3260	---	---	**Van's Airbox:** FAB-320-1 and FAB-360/540	08-17579	---
AA10-3450	---	---	**Van's Airbox:** FAB-320-1 and FAB-360/540	08-17580	---

EP

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AIR FILTERS



PLEATED PAPER AIR FILTERS

These pleated paper aircraft induction air filters are manufactured in South Africa and are fully approved by the South African Dept. of Transport, Division of Civil Aviation. Strict quality control standards are enforced at all stages of manufacture. The filters feature aluminum frames and cured EA131 pleated elements with 96% micron rating. Rubber gaskets are waterproof, oil solvent, and chemical resistant. Mesh overlays are of stainless steel for enhanced strength, durability, and appearance. Not FAA approved at this time.

Part No.	AC Equivalent P/N	Aircraft Type	Price
08-14639	124748-019 (No Gasket)	Aero Commander 100-180, 112, 112A, 112B	---
08-14638	124748-019 (121262-7)	Aero Commander 100, 100A	---
08-14640	124748-036 (615045-1)	Aero Commander 112TC, 112TCA, 114, 114A	---
08-14641	361-200 (126053-002)	Aero Commander 500	---
08-00018	P10-5304	Beech 36	---
08-00020	P12-8219 (122601)	Beech 55	---
08-00019	P12-7996 (121128-2) TE946 thru TE1078 TH1 thru TH740	Beech 58	---
08-14646	P13-6680 (105-389000-3)	Beech 76	---
08-14647	P13-3881	Beech 77	---
08-00023	P12-8167 (96-389005-1) TE1079 & after TE741 & after	Beech E55 & 58 Late Model	---
08-14644	P10-2646 (35-0035-3) Maze 122943-1	Beech S35	---
08-00000	C294510-0201	Cessna 150	---
08-00001	C294510-0301	Cessna 172	---
08-00002	C294510-0401	Cessna 172	---
08-00003	C294510-0501	Cessna 172 RG Cutlass	---
08-14649	P57A (AC-6486197) Maze 12009	Cessna 175, 175 A, B, C	---
08-00004	C294510-0601	Cessna 177	---
08-00007	0750038-4	Cessna 182	---
08-00006	C294510-0901	Cessna 182RG	---
08-00008	1250704-3 (Port)	Cessna 206	---
08-00009	1250704-4 (Stb)	Cessna 207	---

Part No.	AC Equivalent P/N	Aircraft Type	Price
08-00013	9910018-2	Cessna 310N, P, Q, T310P, T310Q	---
08-00014	9910200-1	Cessna 310R	---
08-00011	C294510-0501	Cessna 337	---
08-00016	9913001-1 (108)	Cessna 402 Late Model	---
08-00015	9910141-1	Cessna 414 Series	---
08-00005	C294510-0801	Cessna P210	---
08-00010	1250846-1	Cessna T206 & T210	---
08-00012	9910018-1	Cessna T310R	---
08-00021	P10-8700	Duke B60	---
08-14652	13219 (CESS-3)	Mooney M20-C, M20A, B, C, D, G	---
08-00026	125685-004	Mooney M20K	---
08-14651	004028	Mooney M20R	---
08-00022	P12-4439 (50-389070-23)	P Baron (58P)	---
08-14653	120120 (17775-00)	Piper Aztec PA-23-160	---
08-14656	460-630 (FRAM CA144PL) 638876	Piper Cherokee PA28R-201, PA28RT-201 PA28R-180, PA28R-200	---
08-00029	124997-005	Piper Navajo/ Chieftain (PA31)	---
08-14655	17775-02	Piper PA24-250 Up to S/N 1476	---
08-14657	26874-00 P11-4419	Piper PA24-260C	---
08-00033	CA161	Piper PA28 & 32 Series (PA 36 Pawnee) (PA 34 Seneca)	---
08-00035	35477-00	Piper PA28-161	---
08-14658	PA-560-904 (D-P12-8683)	Piper PA28-236 S/N 28-7911283 & up	---
08-00034	CA162	Piper PA32 & PA23	---
08-00031	560-947	Piper Saratoga (PA32-301T)	---
08-00036	CA122	Piper Super Cub (PA18)	---
08-00028	560-772	Piper Tomahawk	---
08-00030	13681-02	Piper Tri-Pacer (PA22)	---
08-00032	125196	Piper Turbo Aztec (PA23)	---

AIR-MAZE AIR FILTERS

Filter for Continental for A-65 thru C-125*.
P/N A40599 ..... ---
Filter for Lycoming O-235, O-290, some O-320 (advise aircraft application) ..... P/N A40599 ..... ---
Aeronca 7AC, 11AC ..... P/N 2-849 ..... ---

***FOR NEW INSTALLATION - P/N 24306 & P/N 24308 ARE REQUIRED**

VARI-EZE / LONG EZ AIR INTAKE FILTER

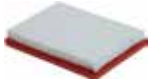
NAPA #2904 air intake filter (equivalent to Purolator #AFP-177 & AC #44-8C) .P/N 2904 ..... ---

OVAL AIR FILTER FOR DUAL BING 54 CARBURETOR

Oil impregnated, pleated, washable, polyester air filter. Can be washed and re-oiled for years. Traps dirt and other foreign particles to keep engine clean.
Filter for Rotax 532 582 and 618 ..... P/N 15-08370 ..... ---
Filter for Rotax 503 ..... P/N 15-08343 ..... ---

NAPA AIR FILTER

Air Filter for 7GCA, 7GCB, 7GC, 7HC Models. Experimental Only. Direct replacement of FRAM made by NAPA ..... P/N 05-06388 ..... ---



NAPA 6153 GOLD AIR FILTER

These Filters Contain 30% More Media Than OES Filters And Use A Phenolic Resin Treated Enhanced Cellulose Media Which Provides Excellent Durability Against Moisture Ingestion. When Applicable, The High-Tear Strength Polyurethane Seal Survives Extreme Hot And Cold Temperature Conditions. Air Filter Laboratory Tests Per ISO 5011 At Least 99.5% Efficiency (Based On NAPA # 2389) NAPA Gold Filters Are Recommended For OEM Air Filter Change Intervals.
Specifications: • Height (Inches): 1.62 in • Length: 10.68 in • Width: 7.95 in
P/N 08-17162 ..... ---

NAPA 7243 OIL FILTER

HD Oil Filters Feature a Cellulose/Poly Media w/ Contaminant Holding Capacity
Specifications: • Filter O.D. (Inches): 3.778 in. • Flow Rate: 28 To 30 gpm • Height (Inches): 5.962 in. • Micron Rating: 21 • Style: Spin-On Oil Filter • Thread Size: 1-1/2 in-16.
P/N 08-17161 ..... ---

GPL WASHABLE RE-USEABLE AIR FILTER FOR BING 54

Oil Impregnated, Pleated, Washable, Polyester Air Filter. Can be washed and re-oiled for years. Fits Bing 54 Carburetor. GPL Part # 3920 For Bing 54. 3.5" D x 4" L x 2 1/16" ID ..... P/N 08-07665 ..... ---

EP

MCFARLANE AIR FILTER SHROUD ASSEMBLIES

McFarlane now has FAA-PMA approval on their improved Cessna Airbox Shroud/Seal Assemblies for various 150, 152 and 172 aircraft! McFarlane Airbox Seal Assemblies for select Cessna aircraft have drastically improved the life of their part using aluminum instead of plastic. McFarlane patented Cowl Saver Material with Bi-Flex is used with the new shroud to prevent cowl damage.

Description	Part Number	Price
MC0450066-5 Air Filter Shroud Assembly	**05-27124**	---
MC0452017-15 Air Filter Shroud Assembly	05-27125	---
MC0552130-11 Air Filter Shroud Assembly	05-27126	---

EP

ANDYS SUPER OIL LUBRICANT

Powerful Lubrication - A 21st Century Formula. Andy's Super Oil takes advantage of the latest advances in tribology (the science of lubrication) by combining a high-quality petroleum base with the finest additives, including PTFE (commonly known by the trademarked-name Teflon). PTFE is one of the most lubricious materials known and is a key element in making Andy's Super Oil the finest spray lubricant available today.

11 oz .....P/N 09-04441 ..... ---

MOLYKOTE 33 BEARING GREASE

Dow Corning 33 Extreme Low Temperature Bearing Grease is a thickened silicone oil; resistant to oxidation, moisture and corrosive atmospheres, inert, good shear stability and wide service temperature range.

Specifications:

- 5.3oz (150g) Tube.
- Base Chemistry: Silicone
- Flash Point: >101.1°C
- Service Temperature: -73 to 204°C
- Specific Gravity: 1.1 @ 25°C
- Viscosity Cp: 100 @ 25 °C

P/N 06-02342 ..... ---

LOCTITE® HIGH TEMPERATURE GASKET SEALANT

LOCTITE® High Temperature Gasket Sealant is a slow drying viscous paste. It remains pliable and flexible and is designed to seal flanges, threaded connections and fasteners at temperatures from -45° C to +315 °C. It can be effectively applied to cork, paper, plastic and metal surfaces. Typical applications include sealing gaskets, flanges and threaded connections, aircraft heating systems, manifolds, pipe fittings, steam lines, gear boxes and cover plates.

P/N 09-28425 ..... ---

PERMATEX FORM-A-GASKET NO. 1

Seals and repairs a wide range of gaskets. Fills in uneven flanges surfaces. Seals pipe fittings, air ducts, boilers, plumbing connections and threaded assemblies. Dries fast, sets hard for sealing permanent or rigid assemblies. Easy to apply. Improves gasket sealing power, adds reliability to rigid or permanent assemblies. Eliminates delays.

3 oz., Tube, #1B.....P/N 09-28415 ..... ---
11 oz, Tube, #1C .....P/N 09-28430 ..... ---

PERMATEX FORM-A-GASKET NO. 2

A non-hardening, heavy-bodied, pliable sealant for semi-permanent assemblies. Use on threaded assemblies, over plates and hose connections, metal-to-metal applications. Temperature range -65° to 400° F., pressures up to 5000 PSI. Apply with putty knife or stiff bristle brush. Conforms to MIL-S-45180B Type II.

3 Oz. Tube #2B.....P/N 09-28420 ..... ---
11Oz. Tube #2C.....P/N 09-28400 ..... ---

ANDEROL ROYCO 782 HYDRAULIC FLUID

Synthetic fire resistant "Super Clean" hydraulic fluid ROYCO 782 is a red - colored synthetic hydraulic fluid developed to meet the severe duty demands of today's military and industrial equipment. Modern additive technology is employed for oxidative stability, corrosion inhibition, and anti-wear protection. ROYCO 782 is compatible with petroleum based fluids and all components used in mineral oil type hydraulic systems. Mil-Spec: MIL-PRF-83282.

Quart .....P/N 08-07539-1 ..... ---
Case (24 Quarts) .....P/N 08-07539 ..... ---

AVIATION FORM-A-GASKET NO. 3

Slow-drying, non-hardening brush-top sealant approved for use in aviation as well as automotive applications. Temperature range -65°F to 400°F (-54°C to 204°C); resists gasoline, oil and grease.

Application: Close-fitting machined surfaces, sealing hoses, solid gaskets.

Conforms to MIL-S-45180B, Type III.

4 Oz. Can #3H.....P/N 09-28500 ..... ---
1 Pint Can #3D.....P/N 09-28600 ..... ---

FLAMMABLE

MARVEL MYSTERY OIL

Standard for break-in on new or overhauled engines and for carbon removal from cylinder heads, piston rings, valves, etc. Mix with regular oil for perfect engine operation to -20°F. Lubricates tight nuts, control hinges and landing gear. Dust repellent.

Quart.....P/N 09-27500 ..... ---
Pint .....P/N 09-27505 ..... ---
Gallon .....P/N 09-27600 ..... ---

FLAMMABLE

MOUSE MILK OIL

For speedy help in removal of rusted or frozen studs, nut and bolts; frees up cables, slides and linkage; unequalled wherever a lubricant and penetrant are required. Lasting lubricating qualities.

Attention: Volatile Organic Compounds (VOCs) Government Regu-lations. Product cannot be purchased, sold, or used in California.

8 Oz .....P/N 09-39608 ..... ---
32 Oz .....P/N 09-39632 ..... ---

FLAMMABLE

MOUSE MILK OIL PURPLE - VOC COMPLIANT

Mouse Milk Purple is a vegetable oil based VOC-compliant alternative to the traditional Mouse Milk. The Greener Alternative. For speedy help in removal of rusted or frozen studs, nut and bolts; frees up cables, slides and linkage; unequalled wherever a lubricant and penetrant are required. Lasting lubricating qualities.

8 Oz .....P/N 09-05784 ..... ---

BENDIX MAGNETO GREASE

#10-27165 - Factory recommended lubricant for bearings in Bendix magnetos.

1 Lb. Can .....P/N 10-27165 ..... ---

#10-391200 - For use on distributor block bushing. Provides proper shaft lubrication.

8 oz. can .....P/N 10-391200 ..... ---

#10-86527 - High temperature breaker/cam lubricant

P/N 10-86527 ..... ---

AIM-A-SQUIRT

Aim-A-Squirt was developed out of the need to apply lubricants, corrosion inhibitors and solvents in those hard to reach areas with out getting the products all over everything. Aim-A-Squirt has been tested with hundreds of different products which have had no affect on the special plastics the straw is made of. The straw is flexible enough that it will not kink when it is twisted in a small circle.

Features: • Reach difficult areas with ease • Allows can to remain upright • Two sizes to fit most cans • 32″ length .....P/N 09-02325 ..... ---

CONTINENTAL CYLINDER KITS

CMI Through Hardened Steel Barrel Cylinder Kits.
The genuine, through-hardened steel barrel cylinders offer you peace-of-mind with OEM quality and product support at an aftermarket price. Most kits do not include piston pins, rocker arms, valve covers, and attaching hardware.

Model No.	Engines	Part No.	Price
658552A2	TSIO520	07-20388	---
658552A3	IO550 A, B, C	07-20389	---
658552A4	IO520 - all	07-20390	---
658603A4	TSIO550 A, B, C, E	07-20399	---
658603A8	TSIO520BE	07-20402	---

COMBUSTION TECH PISTONS FOR LYCOMING

All pistons manufactured by Combustion Technologies are made in the USA from high quality aluminum forgings. Their pistons are not made from castings and are designed to utilize Lycoming ring sets and piston pins so you do not need any special rings or pins.

Model Number	Description	Part No.	Price
ASC15357-P10	Combustion Technology Piston (Not FAA-Approved)	07-21498	---
ASC1021-FL-P10	Combustion Technology Piston (Not FAA-Approved)	07-21500	---
ASC653009 P15	Combustion Technology Piston (Not FAA-Approved)	07-24490	---

REIFF HOTSTRIP OIL SUMP HEATERS

HotStrip is thin and lightweight like a silicone pad, but made of aluminum for maximum durability. Works either as a stand-alone sump heater or integrated with the Hot Band Cylinder Heating Systems in the Standard, Turbo, and Turbo XP Systems. Bonds to the bottom or side of oil sump and electrically heats the oil. Features dual heating elements for redundancy. System includes two 100W elements thermostat, and power cord.

FAA Approved for:
Lycoming 0-235; All 290, 320, 360 series; All 435, 480, 540, 541 series; **Continental** IO-346; All 300, 600 series; E-165, E-185, E-225, All 470, 520, 550 series.
HotStrip Oil Sump Heater System: All engines above (Except Continental A-65, A-75, A-80, C-85, C-90, O-200, IO-240. These engines with oval oil sump use HotPad flexible silicone heating elements) Franklin 165, 220 .....P/N 08-00688 .....

REIFF PREHEATER FOR ROTAX 912/914

The Reiff preheat system for Rotax 912 and Rotax 914 aircraft engines is an engine-mounted electric preheat system designed for easier cold-weather starts. The preheat system consists of a 100-watt metal "hot strip" element, which is epoxied to the bottom of the crankcase, and a 50-watt band heater that is clamped to the oil tank.
The Reiff is FAA approved, and includes a thermostat to keep the oil from exceeding 150° F.

Description	Part No.	Price
150 Watts 110V	08-06219	---
250 Watts 110V	08-07620	---
250 Watts 220V	08-07620-1	---
350 Watts 110V	08-07621	---

E-Z HEAT AIRCRAFT ENGINE PREHEATERS

Preheating engines for winter operations is at best a miserable chore and at worst can be a disaster for the plane, the pilot & flight operations - until the development of the E-Z Heat Aircraft Engine Heater. The E-Z Heat was designed to provide very efficient engine heating for virtually all propeller driven aircraft. The heaters consist of a flexible synthetic pad that easily conforms to the contours of the oil pan. This pad will heat 12 qts of oil from -40° to +60°F in an hour while using approximately 300 watts of electricity. The heater is 1/32" thick. which enables the immediate heat transfer from heater to engine.
The heaters are thermostatically controlled, so leaving them plugged in overnight means the plane will be ready to go in the morning. Normally, complete pre-heating takes only 3-5 hours for the entire engine to be nice and warm. With this new lighted plug, the owner simply needs to look out the window or peek in the hangar to see if they remembered to plug in their E-Z Heat engine pre-heater. Molded into the male plug end is a newly designed light emitting diode (LED). This LED allows the operator to visually recognize if there is electrical power to the preheat system even from a distance. FAA approved for certificated aircraft.
End your cold weather starting problems and reduce premature engine wear with the installation of our proven
Specifications:
Power Consumption: 300 watts or less / Thermostatically Controlled
Power Requirement: 110/120 volts (models 441 and 540 are available in 220 volts).
Installation: The adhesive is already on the pad. All you need to do is peel and stick it on! (excluding model 470)
Preheat Time: 3 to 5 hours on cold soaked engine, although, since unit is thermostatically controlled, it may be left on overnight, or all the time. Cowl covers and prop covers are recommended for extreme cold weather, they also reduce preheat time.
Lite Brite Plug: With this new lighted plug, the owner simply has to look out the window or peek in the hangar to see if they remembered to plug in their E-Z Heat engine pre-heater! (excluding model 470)
Weight: Only 9 ounces!
Heat Transfer: Convection/conduction, the safest way of heat transfer available. No flames or glowing elements are potential fire hazards.

07-00756

07-05315

07-05345

07-05210

Application	Heater #	Part No.	Price
Continental A-65 to O-200 (round). Use on round kidney shaped oil sumps	360	07-00756	---
Continental A-65 to O-200 (rectangle) Use on flat oil sump surface	270	07-05315	---
Continental C-125 to O-300, E-165 to E-225, IO-360 to TIO-360 Lycoming O-235, O-290, O-320*	440	07-05100	---
Continental 0-470, IO-470, O-520, IO-520 Lycoming O-320*, O-360, IO-360, O-540, IO-540C, D, TIO-540C	441	07-05200	---
Continental O-470, IO-470, O-520, IO-520	470	07-01320	---
Lycoming IO-360A & C Series	442	07-05210	---
Continental O-470, IO-470, O-520, IO-520, IO-550 Lycoming O-540, TIO-540 (except C), IO-720	411, 440 or 540	07-05345	---
	220V	07-05345-2	---
Model 441 - 220 Volt	441-2	07-05200-2	---

*** Except H and Rear Carbs**

E-Z HEAT 912 ENGINE PREHEATER

The E-Z Heat Engine Preheater system fits the Rotax motors and many other light sport aircraft on the market today. The system consists of two heater pads connected with a common "Light Bright" power cord. Installation is easy by peeling and sticking a pad on both the sump and on the oil tank to assure the engine gets the proper amount of heat.
P/N 07-01860 ..... ---

EP

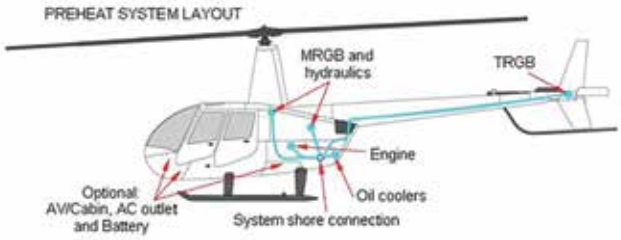
TANIS PREHEAT SYSTEMS

TANIS CONTINENTAL / LYCOMING PREHEAT KITS

Engine Preheat Kit for 4 / 6 / 8 Cylinder Continental and Lycoming engines. This preheat kit contains threaded heat elements located in each cylinder assembly and one pad heat element on the engine crankcase/oil sump/tank. This multi-point configuration fully preheats the engine and attached accessories. Power is routed to the elements through a dedicated wiring assembly with LED system power indication and circuit overload protection standard. The system is self-regulating through design. Heated components reach an average state of thermal equilibrium in approximately six hours. This preheat kit is compatible with all engine monitor systems as the threaded heat elements can replace either a rocker cover screw or intake bolt fasteners. Not eligible for rotorwing aircraft (helicopters)

STC / PMA	Description	Part No.	Price
FAA-STC: # SE03232CH TCCA acceptance of FAA-STC on file. EASA-STC: # 10054417	Tanis STC Engine Preheat Kit - 4 Cylinder Continental And Lycoming - 115 Volt #SE03232CH..also TCCA & Easa Approved TSP-4CYL-2925-115	05-14825-1	---
FAA-STC: # SE03232CH TCCA acceptance of FAA-STC on file. EASA-STC: # 10054417	Tanis STC Engine Preheat Kit - 4 Cylinder Continental and Lycoming - 230 Volt #SE03232CH..also TCCA & Easa Approved TSP-4CYL-2925-230	05-14826-1	---
FAA-STC: # SE03309CH TCCA acceptance of FAA-STC on file EASA-STC: # 10054433	Tanis STC Engine Preheat Kit - 6 Cylinder Continental, Lycoming and Franklin - 115 Volt #SE03309CH..also Tcca & Easa Approved TSP-6CYL-2927-115	05-14829-1	---
PMA ONLY	Tanis Engine Preheat Kit - 8 Cylinder Io-720 - 115 Volt TSP8CYL-1045-115	05-14833	---
PMA ONLY	Tanis Engine Preheat Kit - 8 Cylinder Io-720 - 230 Volt TSP8CYL-1045-230	05-14834	---

TANIS ROBINSON HELI-PREHEATER KITS



Preheating is accomplished using electrical resistance heat in the form of thin pads sized and shaped to fit various parts. The pads are surface mounted with a bonding adhesive. This includes engine, accessory and propeller reduction gearboxes, attached accessories, and engine oil tank. Power is routed to the heating elements through a dedicated shore power plug, circuit protection, and wiring assembly. System is self-regulating, heated components reach an average state of thermal equilibrium in approximately six hours.

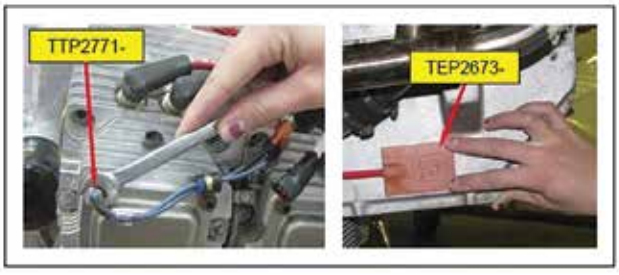
Description	Part No.	Price
Tanis Heli-preheat Kit - Robinson R44 - 115 Volt Tshr44-2778-115	05-14813-1	---
Tanis Heli-preheat Kit - Robinson R44 - 230 Volt Tshr44-2778-230	05-14814-1	---
Tanis Heli-preheat Kit - Robinson R66 - Rr250-c300/a1 - 115 Volt Tshr66-3078-115	05-14815	---
Tanis Heli-preheat Kit - Robinson R66 - Rr250-c300/a1 - 230 Volt Tshr66-3078-230	05-14816	---

TANIS PREHEAT SYSTEM FOR ROTAX 912/914 SERIES ENGINES

Engine Preheat Kit for 4 cylinder Rotax 912/914 (all models).
This preheat kit contains electrical elements located in each cylinder assembly, one threaded heat element on the engine crankcase (oil pump) and a pad heat element bonded on the oil tank. This multipoint configuration fully preheats the engine and attached accessories. Power is routed to the elements through a dedicated wiring assembly with system power indication and circuit overload protection. System is self-regulating through design. Heated components reach an average state of thermal equilibrium in approximately six hours.
This preheat kit when installed will supply 230 watts with a 2.0 amp draw at 115/230 volts.

Standard ..... P/N 08-07395-1 ..... ---
Europe ..... P/N 08-07395-230-1 ..... ---

TANIS JABIRU PREHEAT KITS



Preheating is accomplished using electrical resistance heat in the form of thin pads sized and shaped to fit various parts. The pads are surface mounted with a bonding adhesive. This includes engine, accessory and propeller reduction gearboxes, attached accessories, and engine oil tank. Power is routed to the heating elements through a dedicated shore power plug, circuit protection, and wiring assembly. System is self-regulating, heated components reach an average state of thermal equilibrium in approximately six hours.

Description	Part No.	Price
Tanis Engine Preheat Kit -Jabiru 2200 - 115 Volt TSP4CYL-2513-115	05-14821	---
Tanis Engine Preheat Kit -Jabiru 2200 - 230 Volt TSP4CYL-2513-230	05-14822	---

TANIS AVIONICS / CABIN HEATER

Includes 6 foot long cable for easy use on floor of aircraft. Note: Extension cord to get to your aircraft or inlet/outlets not included. Output: 500 watts ± 10%. Required power: AC 100-240 Volt - 50/60 Hz. Dimensions: 6 x 5.75 x 2 inches (150 x 145 x 45 mm) Approximate. Heater Lead length: 6 inches (150 mm) Approximate.

P/N 05-14755 ..... ---

TANIS 4 / 6 CYLINDER ENGINE PRESERVATION KIT

Engine Preservation Kit: recommended by engine manufacturers for storage of an engine longer than 90 days. Everything you need for long-term protection of your Lycoming & Continental engine.

4 Cylinder ..... P/N 08-07085 ..... ---
6 Cylinder ..... P/N 08-07086 ..... ---

TANIS BONDING SEALANT

Conforms to MIL-A-46106. Clear must be used as the coloring dies and other added materials reduce the materials thermal transfer rates. Bonding sealant - 1 ounce tube.

P/N 08-13884 ..... ---

EP

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TANIS PREHEAT SYSTEMS

Engine preheating is accomplished through electrical resistance heat in the form of thin pads sized and shaped to fit various parts. The pads are surface mounted with a bonding sealant/adhesive. Heated items include, engine accessory/reduction gearboxes, fluids, batteries and attached accessories. Power is routed to the heat elements through a dedicated wiring assembly with power indication and circuit overload protection. System is self-regulating through design. Heated components reach an average state of thermal equilibrium in approximately six hours.

Description	Part No.	Price
Cessna 208B - PT6A-140A - 115 Volt - When installed will supply 555 watts with a 4.8 amp draw at 115 volts.	05-14769-1	---
Cessna 208B - PT6A-140A - 230 Volt - When installed will supply 555 watts with a 2.4 amp draw at 230 volts.	05-14770-1	---
Twin Otter DHC-6 400 PT6A-34 - 115 Volt	05-14771	---
Twin Otter DHC-6 400 PT6A-34 - 230 Volt	05-14772	---
Gippsaero Airvan GA8 Series - W/battery & Avionics/cabin Heat - 115 Volt TSF-GA8-3120-115	05-14773	---
Gippsaero Airvan GA8 Series -W/battery & Avionics/cabin Heat - 230 Volt TSF-GA8-3120-230	05-14774	---
Quest Kodiak 100 - W/battery & Avionics/ cabin Heat - 115 Volt TSFKODIAK-3123-115	05-14775-1	---
Quest Kodiak 100 - W/battery & Avionics/ cabin Heat -230 Volt TSFKODIAK-3123-230	05-14776-1	---
Pilatus PC-12, PC-12/45, PC-12/47, Serial number (S/N): 101 thru 999 Engine: PT6A-67B. When installed will supply 703 watts with a 6.1 amp draw at 115 volts	05-14777	---
Pilatus PC-12, PC-12/45, PC-12/47, Serial number (S/N): 101 thru 999 Engine: PT6A-67B. When installed will supply 703 watts with a 3.1 amp draw at 230 volts	05-14778	---
Pilatus PC-12/47E, Serial number (S/N): 1001 - UP Engine: PT6A-67P. When installed will supply 703 watts with a 6.1 amp draw at 115 volts	05-14779	---
Pilatus PC-12/47E, Serial number (S/N): 1001 - UP Engine: PT6A-67P. When installed will supply 703 watts with a 3.1 amp draw at 230 volts	05-14780	---
P&W - R1340 - 115 Volt TSP9CYL-2904-115	05-14835	---
P&W - R1340 - 230 Volt TSP9CYL-2904-230	05-14836	---
Pratt & Whitney DHC-8 (Q400). Supplies 2838 watts with a 24.6 amp draw at 115 volts. Each engine is supplied with 1315 watts with a 11.4 amp draw at 115 volts. The 3 batteries are supplied with 208 watts with a 1.8 amp draw at 115 volts.	05-14781	---
Pratt & Whitney DHC-8 (Q400). Supplies 2838 watts with a 12.3 amp draw at 230 volts. Each engine is supplied with 1315 watts with a 5.7 amp draw at 230 volts. The 3 batteries are supplied with 208 watts with a 0.9 amp draw at 230 volts.	05-14782	---
Pratt & Whitney PT6A Small And Medium Engines (Short PRGB) - 115 Volt	05-14841	---
Pratt & Whitney PT6A Small And Medium Engines (Short PRGB) - 230 Volt	05-14842	---
Pratt & Whitney PT6A Large Engines (Long PRGB) - 115 Volt	05-14843-1	---
Pratt & Whitney PT6A Large Engines (Long PRGB) - 230 Volt	05-14844	---
Pratt & Whitney 118, 120, 121, 123 - 115 Volt	05-14845	---
Pratt & Whitney 118, 120, 121, 123 - 230 Volt	05-14846	---
Pratt & Whitney 124, 125, 126, 127 - 115 Volt	05-14847	---
Pratt & Whitney 124, 125, 126, 127 - 230 Volt	05-14848	---
Pratt And Whitney PW545A (Cessna Citation Excel) - 115 Volt	05-14849	---
Pratt And Whitney PW545A (Cessna Citation Excel) - 230 Volt	05-14850	---
Pratt & Whitney PWJT15D Series Turbofan Engines - 115 Volt	05-14851	---
Pratt & Whitney PWJT15D Series Turbofan Engines - 230 Volt	05-14852	---
Garrett TPE 331u & TPE 331 Series - 115 Volt	05-14839-1	---
Garrett TPE 331 Series - 230 Volt	05-14840-1	---
AgustaWestland A109C, A109E, A109S, AW109SP WITH PW206C/PW207C - 115 VOLT TSHAW109-2219-115	05-14787	---
AgustaWestland A109C, A109E, A109S, AW109SP WITH PW206C/PW207C - 230 VOLT TSHAW109-2219-230	05-14788	---
Rolls Royce RR250 Series Turboprop - 115 Volt	05-14853	---
Rolls Royce RR250 Series Turboprop - 230 Volt	05-14854	---

Description	Part No.	Price
Airbus TSHAS350-318 - RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14783	---
Airbus TSHAS350-3184-230 - RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14784	---
Airbus TSHAS350-3185-115	05-14785	---
Airbus TSHAS350-3185-230	05-14786	---
Airbus TSHEC130-3186-115 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14803	---
Airbus TSHEC130-3186-230 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14804	---
Airbus (Eurocopter) Ec 135 P1 & P2 With PW206B - 115 Volt TSHEC135-2230-115 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14805	---
Airbus (Eurocopter) Ec 135 P1 & P2 With PW206B - 230 Volt TSHEC135-2230-230 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14806	---
Airbus (Eurocopter) EC135T1/T2 With Arrius 2b/2b1/2b2 - 115 Volt TSHEC135-2765-115 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14807	---
Airbus (Eurocopter) EC135T1/T2 With Arrius 2B/2B1/2B2 - 230 Volt TSHEC135-2765-230 RTB0001 Required. This Kit Is Not Eligible For An 8130-3	05-14808	---
Austro AE300 - 115 Volt #SE03232CH..ALSO TCCA & EASA Approved TSP4CYL-3001-115	05-14827	---
Austro AE300 - 230 Volt #SE03232CH..ALSO TCCA & EASA Approved TSP4CYL-3001-230	05-14828	---
Jacobs (L-4) R-755 - 115 Volt TSP-7CYL-3002-115	05-14831	---
Jacobs (L-4) R-755 - 230 Volt TSP-7CYL-3002-230	05-14832	---
Bell 407 With RR250-C47B - 115 Volt #SR03474CH TSHB407-3083-115	05-14795	---
Bell 407 With RR250-C47B - 230 Volt #SR03474CH TSHB407-3083-230	05-14796	---
Bell 212, 412, 412cf, 412EP - 115 Volt #SR04132CH TSHB412-3132-115	05-14799	---
Bell 212, 412, 412CF, 412EP - 230 Volt #SR04132CH TSHB412-3132-230	05-14800	---
AgustaWestland AW119 (Koala) with PT6B-37A. 802 watts with a 7.0 amp draw at 115 volts	05-14789	---
AgustaWestland AW119 (Koala) with PT6B-37A. 802 watts with a 3.5 amp draw at 230 volts	05-14790	---
Enstrom Helicopter F-28/280 W/ Hio-360 - Standard (CHT Not Wells Required) - 115 Volt TSHEN280-2780-115	05-14809	---
Enstrom Helicopter F-28/280 W/ Hio-360 - Standard (CHT Not Wells Required) - 230 Volt TSHEN280-2780-230	05-14810	---
Enstrom 480 - 115 Volt TSHEN480-2504-115	05-14811	---
Enstrom 480 - 230 Volt TSHEN480-2504-230	05-14812	---
Schweizer/Sikorsky 269/300 - Standard (CHT Wells Not Required) - 115 Volt TSHS269-2508-771-dt-115	05-14817	---
Schweizer/Sikorsky 269/300 - Standard (CHT Wells Not Required) - 230 Volt TSHS269-2508-771-dt-230	05-14818	---
Airbus (Eurocopter) AS350D with Lycoming LTS101 - When installed will supply 587 watts with a 5.1 amp draw at 115 volts.	05-14729	---
Airbus (Eurocopter) AS350D with Lycoming LTS101 - When installed will supply 587 watts with a 2.6 amp draw at 230 volts.	05-14730	---
Oil Tank Heater Kit - 115 Volt TSP1051-115	05-14819-1	---
Oil Tank Heater Kit - 230 Volt TSP1051-230	05-14820-1	---

TANIS PREHEAT ACCESSORIES

TANIS PAD HEAT ELEMENTS

Dims	Volt/Watts	Description	Part No.	Price
1.75"x7"	115/120	Shape: Rectangular Connector: Pin	05-14748	---
1.75"x7"	230/120	Shape: Rectangular Connector: Pin	05-14749	---
2"x3"	115/40	Shape: Rectangular Connector: Pin	05-14750	---
2"x3"	230/40	Shape: Rectangular Connector: Pin	05-14751	---
2"x4.5"	115/80	Shape: Rectangular Connec-tor: Pin Usage: 6 cylinder piston engine sump and case	05-14752	---
2"x4.5"	230/80	Shape: Rectangular Connec-tor: Pin Usage: 6 cylinder piston engine sump and case	05-14753	---
1.75"x7"	115/120	Shape: Rectangular Connector: Pin Usage: 6 cylinder piston engine sump and case	05-21977	---
3"x3"	115/70	Shape: Square Connector: Socket Usage: 6 cylinder piston engine sump and case	05-21978	---
4"x3.1"	115/70	Shape: Irregular Connector: Socket Usage: 6 cylinder piston engine sump and case	05-21980	---
3"x3.5"	115/80	Shape: Rectangular Connector: Pin Usage: 6 cylinder piston engine sump and case	05-21981	---
Shape Varies	115/240	Shape: Irregular Connector: Pin Usage: 6 cylinder piston engine sump and case	05-21982	---
0.9"x1.5"	115/13	Shape: Rectangular Connector: Socket Usage: 6 cylinder piston engine sump and case	05-21984	---
--	--	Cable Assembly Kit, Thermostat – 1 lead. For single battery systems.	05-21985	---
--	--	Threaded Heat Element 1-20 Socket Only 50 Watt - 115 Volt	05-22003	---
1.5" X 2"	115/28	Shape: Rectangular Connector: Pin	05-22391	---
3" X 7"	115/200	Shape: Rectangular Connector: Pin	05-22392	---

TANIS BATTERY HEAT ELEMENTS

Dims	Volt/ Watts	Connector	Part No.	Price
31.5"x4"	115/60	with socket connector	05-14731	---
31.5"x4"	230/60	with socket connector	05-14732	---
31.5"x3.5"	115/60	with socket connector	05-14733	---
31.5"x3.5"	230/60	with socket connector	05-14734	---
38.5"x4"	115/74	with socket connector	05-14735	---
38.5"x4"	230/74	with socket connector	05-14736	---
31.5"x4"	115/60	with pin connector	05-14737	---
31.5"x4"	230/60	with pin connector	05-14738	---
31.5"x3.5"	115/60	with pin connector	05-14739	---
31.5"x3.5"	230/60	with pin connector	05-14740	---
38.5"x4"	115/74	with pin connector	05-14741	---
18"x2.37"	115/20	with pin connector	05-14742	---

TANIS THREADED HEAT ELEMENTS

Description	Part No.	Price
3/8-24 CHT Dual Probe - J Type Grounded - Red/ White or Black/Yellow (TAS100T-J) with Pin Connector	05-14861	---
Threaded Heat Element Socket Plug Connector 1/4-20X1.00 50 WATT - 115 VOLT	05-14857	---
Threaded Heat Element 1/4-20 W/PIN CONNEC-TOR 50 WATT - 115 VOLT	05-14858	---
1/4-20 with Pin Connector 50 Watt - 115 Volt	05-14868	---
1/4-20 with Pin Connector 50 Watt - 230 Volt	05-14870	---

TANIS LED INDICATOR LIGHTS

Description	Part No.	Price
6 inch lead, Pin connector - 115V	05-14756	---
6 inch lead, Pin connector - 230V	05-14757	---
6 inch lead, socket connector - 115V	05-14758	---
6 inch lead, socket connector - 230V	05-14759	---
6 inch lead, no connector - 115V	05-22393	---

TANIS PREHEAT PARTS

Description	Part No.	Price
Connector kit comes with all the items necessary to install one 2 contact socket connector.	05-14745	---
Connector kit comes with all the items necessary to install one 3 contact socket connector.	05-14746	---
Solid Pin Contact - For single 18 or 20 gauge wire connection 0460-202-16141	05-14701	---
Solid Pin Contact - Nickel w/green stripe - For single 18 gauge wire connection or two 20 gauge wires 0460-215-16141	05-14702	---
Solid Socket Contact - For single 18 or 20 gauge wire connection 0462-201-16141	05-14703	---
Solid Socket Contact - Nickel w/ green stripe. For single 18 gauge wire connection or two 20 gauge wires 0462-209-16141	05-14704	---
Solvent Wipe CB911	05-14711	---
4 Way Indent Crimp Tool for 16-22 AWG Wire TU02793	05-14876	---
Aluminum Spacer - 1/4" I.D. TU02846	05-14877	---
Aluminum Spacer - 5/16" I.D. TU02846-5	05-14878	---
Anti-Seize 2 Gram Pillow Pack	05-14881	---
Flush Mount Plug - Metal - 115V	05-14760	---
Flush Mount Plug - Tethered Cap	05-14762	---
Fuse, 12AMP TU02848	05-14880	---
Harness Connector (Blade Contact) CNA	05-14713	---
Battery Heat Installation Kit..- Battery Heat Element Sold Separately TSB2800	05-14766	---
Bonding Sealant 1oz. AC-1230	08-13884	---
Slotted Socket - 11mm Deep 6 Sided 1/4 Drive TU03032	05-14884	---
Bracket, Shore Plug (Continental Sandcast, AE300) TU03016	05-14883	---
Cable Tie - 8" Long, 40 lb, Black, Heat Stabilized	05-14879	---
Low Profile Cable Mount, Click Bond adhesive.	05-14874	---
18 gauge, 2 conductor - Black/Grey (BLK) and White (WHT) paired nickel coated copper wires with Red jacket.	05-14706	---
Circular Plug Bracket (Lycoming)	05-14871	---
Click Bond Installation Kit	05-14712	---
Contact Removal Tool	05-14715	---
Element Connector "Spade style" (receptacle contact)	05-14714	---
Washer Kit for LED Light TU03065	05-14885	---
Washer Thermocouple, K Type Grounded Kit	05-14725	---
Panel Mount Fuse Holder for 1/4" x 1 1/4" Fuses.	05-14723	---
Install one 2 contact pin connector.	05-14743	---
Install one 3 contact pin connector.	05-14744	---
Placard for Tanis 115 Volt Systems	05-14872	---
Placard for Tanis 230 Volt Systems	05-14873	---
Power Door Kit (2.4) TD02840	05-14747	---
Power Plug, Free Hanging 115V TP02770-115	05-14763	---
Sealing Cap for 2 Pin Connector DT06-2S-C017	05-14716	---
Sleeving - 0.249"/0.229", Non-Fray HO #3 Red - /FT 3120003-Red	05-14707	---
Sleeving - 0.198"/0.182", Non-Fray HO #5 Red - /FT 3120005-Red	05-14708	---
Sleeving - 0.178"/0.162", Non-Fray HO #6 Red - /FT 3120006-Red	05-14709	---
Slotted Socket - 1/2" Deep 6 Sided 1/4 Drive TU02905-05	05-14882	---
Sealing Plug For 2 Pin Connector DT06-2S-C017	05-14719	---
Triangular Sealing Plug For 3 Pin Connector DT06-3S-C017	05-14721	---
6 Contact Plug Wedge	05-22396	---
Fireproof Grommet TG01056	05-14754	---
Fuse - 5 AMP	05-22395	---
Tethered Cap with Snap Ring	05-22394	---
Junction 6 Lead Kit	05-22390	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

C & D AIRCRAFT HEATERS

Designed for upgrading obsolete aircraft heating systems or first time installation in your aircraft, C&D Installation kits include a complete group of materials necessary to replace the obsolete system or to install for the first time. Commonly used C&D heater components are shown below. For replacement heaters, request a quote by phone or email and provide aircraft make, model, and serial number.

HEATER COMPONENTS

C & D Part No.	Description	Part No.	Price
CD12065-1	Cabin Heater	05-12002	---
CD12064-1	Cabin Heater	05-12003	---
CD14072-1	Cabin Heater	05-12004	---
CD14073-1	Cabin Heater	05-12005	---
CD14075-1	Cabin Heater	05-12006	---
CD14077-1	Cabin Heater	05-12007	---
CD14078-1	Cabin Heater	05-12010	---
CD21253	Electronic Thermostat	08-14605	---
CD21255	Rotary Thermostat	08-14606	---
CD21402	24V Motor	08-14607	---*
CD21401	12V Motor	08-14608	---*
CD22050	Spark Plug	08-14609	---
CD21381	24V Ignition Unit	08-14610	---*
CD20800	12VDC Fuel Regulator	08-04612	---*

***Additional Core charge**

SAFE-HEET ENGINE HEATERS

SAFE-HEET is a thin flexible pad that is bonded to the engine oil sump. The kit is complete with materials and step-by-step instructions. A log book entry is all that is required for permanent installation; No S.T.C. or 337 form required. There are no airframe modifications required. SAFE-HEET can be used with a timer or the 707 temperature controller, and uses standard 110 A.C. voltage. We recommend using the SAFE-HEET 707 Temperature Controller to cure the adhesive for faster installation.

ECONOMICAL AND EFFICIENT

SAFE-HEET puts the heat where it is needed with very little loss to the surrounding atmosphere. The air inside the engine is heated by the warm oil sump. The warm air goes up and the cold air goes down, your engine is heated from the inside out. It uses about 300 Watts which costs about 3 cents per hour to operate. Less than 1 hour will generally warm the engine oil from subzero to safe easy starting temperature. The entire engine will be warm in 2 to 3 hours. The adhesive is thermo-conductive, and the metal foil heatsink is vulcanized to the pad for even heat transfer. SAFE-HEET reduces costly starter and engine abuse during cold weather starts.

Model 700 Dimension: 4" x 4"..... P/N 05-04420 ..... ---
Model 720 Dimension: 4" x 7"..... P/N 05-04421 ..... ---

ANTI SPLAT AERO NO HASSLE ENGINE PRE-HEATER

"No Hassle Engine Pre-Heater" is Anti Splat Aero LLC's newest specialty accessory, developed specifically for use in most Lycoming equipped aircraft. The product is constructed of 6061-T-6 aluminum, machined and assembled to give years of trouble-free service. Warms internal engine components for quick starts in cold weather and reduces engine wear by improving the oil flow. No glue, stickers, Band-Aids, no fans, no hoses, no box heaters, no ductwork, requires no thermostat or timers, no fuss or mess, just plug it in and you are ready to go. P/N 07-26883 ..... ---

VARIABLE TEMPERATURE CONTROLLER

The SAFE-HEET Variable Temperature Controller can be used with any 700 Series SAFE-HEET Engine Pre-heater as an installation aid, or for providing temperature control for continuous pre-heat without promoting internal engine corrosion

P/N 05-04423 ..... ---

FOR APPLICATION INFORMATION PLEASE CALL OR VISIT OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM

THE SWITCHBOX REMOTE CONTROL APP

The easiest, cheapest and safest way to remote control any electrical device.

For Pilots: No more driving to the airport hours before a flight. Turn on your Engine Heater from your cellphone, and simplify your cold flying routine! TIP: Activate a 2nd device like a Cabin Heater for your sensitive avionics, or a Coffee Maker before you arrive!

For General Use: Your new 'Smart Home' with the easy automation from SwitchBox. Remote control your heating, lighting and air conditioning, from anywhere in the world. TIP: Turn On the A/C before you get home, or check to see if you left the lights On and turn them Off. Save Money! **SwitchBox App for iPhone/iPad/Android - Free. Visit our website to download your copy.**

The Switchbox 4G Full System ..... P/N 08-17037 ..... ---
Cell Service Sim Card ..... P/N 08-13550 ..... ---
Wired Antenna ..... P/N 08-13551 ..... ---
Backup Battery ..... P/N 08-17035 ..... ---

SWITCHEON 15 AMP BASE REMOTE POWER SWITCH

SwitcheOn Remote Power Control is the ultimate remote power switching device. It is easy to use and can be controlled by a smart phone enabled app for easy switching on and off. There is no wifi, hotspot or additional SIM/service required and comes available in 2 or 4 channels. This device is perfect for remotely turning on engine block heaters in aircraft. **Features**: • LTE-M Remote power switching • Switch 2 Channels (Outlets) • Up to 15 amps (1800 watts) • Automatic recovery after power failure • Monitoring • Ambient temperature sensor • Available additional analog/sensor inputs • Bright OLED display • Local and ZULU time • Cellular Signal status • Power/port status • Ambient Temperature • Automations for each channel • On at Ambient temperature • Off at Ambient temperature • On at time • Off at time • Verizon cell tower based service • Uses LTE-M and NB-IoT bands deployed as part of 5G rollouts • Newest band type will have long term availability for future • Operates much further from cellular towers than normal 3G or 4G

SwitchOn 2 Channel USA ..... P/N 05-27121 ..... ---
SwitchOn 4 Channel USA ..... P/N 05-28987 ..... ---
SwitchOn 2 Channel Canada ..... P/N 05-29015 ..... ---
SwitchOn 4 Channel Canada ..... P/N 05-29016 ..... ---

BRUSHLESS CABIN HEATERS

These heaters are available from 12-48 volts, and different wattages as well. The Stealth heater is simple to install and can be operational in minutes. Measuring only 6" long and 5" tall, our Stealth heater will fit in virtually any small space. RuCar elements allow the heaters to be mounted vertically OR horizontally which allows even a tighter mounting space. The Stealth heaters feature RuCar elements which have been tested to have a life expectancy of 10,000 hours, are vacuum sealed, and are exclusive to DC Thermal. RuCar elements operate at temperatures in excess of 650 degrees, are up to 300% more efficient than standard alloy heater elements.

Specifications: Heater Dimensions: 6"x 5" X 4". Brushless 50,000 Hour Ball Bearing Fan. 10,000 Hour DC Thermal ©RuCar Vacuum Sealed Elements. Case Construction: Riveted T5052 Aircraft Aluminum. Wired Entirely with GXL Wire. Thermally Protected. HIGH and LOW HEAT Settings. Comes complete with mounting hardware, mounting bracket, fuse, fuse holder, electrical connector ends, and detailed instruction. TWO YEAR Parts AND Labor Warranty.

Model	Volts/Watts	BTUS	Part No.	Price
SA12-3000	12V / 360W	6012	05-02121	---
SA12-4000	12V / 480W	8016	05-01966	---
SA12-5000	12V / 600W	10,020	05-03869	---
SA24-2500	24V / 600W	10,020	05-04855	---
SA24-3500	24V / 840W	14,028	05-03870	---
SA24-4500	24V / 1080W	18,036	05-02123	---

RANS AIRCRAFT CABIN HEATER

The RANS aircraft heater is the answer to the winter flying "chills". It is very lightweight, inexpensive and installs easily in just two hours. This heater utilizes ram air and the heat off the engine muffler.Operation is simple. Slipstream air is forced through the heater inlet, passing over the muffler, picking up the heat and delivering it to the cabin or pod via an Aeroduct hose. Contains no moving parts. Fits Rotax mufflers and adaptable to other engines. Only fits Rotax 503 and 582.

Will not fit 618 ..... P/N 05-17400 ..... ---

EP

CHAMPION SPIN-ON OIL FILTERS

CH48110-1 CH48111-1

Spin-On Oil Filter CH48109-1 by Champion. Replaces oil filter element. Easy to install. Saves time and clean-up. FAA Approved.

Features: • Replacement elements service engine-mounted or line-installed filter systems incorporating a permanent housing assembly.

• All sizes of replacement elements are packed 12 per case of a single part number in heavy, re-shippable corrugated-board cartons

• Modern spin-on oil filters contain the element, incorporating the anti-drain back valve mechanism (and internal bypass valve 48108-1/48109-1), and are sealed in a disposable housing.

• All sizes of spin-on filters are packed 12 per case of a single part number in heavy, re-shippable corrugated-board cartons.

• Silicone impregnated filter gasket aids in future removal.

• Shorter stud length on CH 48110-1 for tight clearance applications.

• Heavy, corrugated steel center tube supports each convoluted pleat of the filter element and produces a substantially higher collapse-pressure rating, twice that of other similar filters.

• Maximum full-flow design, without interference from center-bolt oil filter assemblies, provides increased oil filtration each engine-operating hour.

Aircraft	Aircraft Model	Filter Part No.
Beech	E33, F33, A35 thru S35	CH48109-1
Cessna	120, 140, 170, 172, 180, 182, 185, 205, 210, 310 C thru Q, 310R	CH48110-1
Mooney	M20, M22	CH48110-1
Piper	PA-18, PA-22, PA-23, PA-24, PA-25, PA-28, PA-30, PA-31, PA-34, PA-60	CH48110-1
LSA	Lycoming 233	CH48114-1

Filter Part No.	Price	12 Pack	Price
CH48103-1	---	08-00905-12	---
CH48104-1	---	08-00906-12	---
CH48108-1	---	08-00907-12	---
CH48109-1	---	08-00908-12	---
CH48110-1	---	08-00909-12	---
CH48111-1	---	08-00910-12	---

AIRWOLF REMOTE MOUNTED OIL FILTER KITS

The remote mount oil filter kit by Airwolf Filter Corp. replaces the Lycoming oil screen and housing allowing every aircraft to have an oil filter and to locate it on the firewall where it's easy to get to. The adapter takes up no more space on the engine than the original part, so even the tightest installations can benefit from it. Your Vernatherm and oil temp bulb are reused and transferred directly to our adapter, everything else is included. Universal STC'd kit fits any Lycoming powered Single/Multi engine airplane less than 450hp. All other STC'd for specific aircraft. **Hoses not included unless where indicated.** **Perfect for Tight Installations in:** * Avion * Aeronca * Bellanca *Beech *Cessna *Cozy MK-IV * Glasair * Grumman * Lancair *Long EZ *Maule *Mooney * Piper * Pitts * RV *Skybolt *T-18 *Vari-EZ * Velocity **Fits Lycoming Series Engines: 0-235, 290, 320, 340, 360, & 540**

CONTINENTAL

Description	Part No.	Price
Universal Continental kit. Fits: A50/65/75/80, C75/C85/C90 C125, O200, & IO240 Engines	08-05675	---
Universal Continental Kit. Fits: C145, O300, GO300, & IO360	08-05680	---
Universal Continental kit. Fits: O470, IO470, IO520, TSIO520, GTSIO520, & IO550 Engines (Except Below) This kit screws into the existing oil pump and replaces the original oil screen.	08-05685	---
Universal Continental Kit. Fits: O470 Military Engines used on T34 Mentor & L-19 Birddogs.	08-05690	---
Continental Filter Relocation Kit. Fits: IO520BA, C, M, TSIO520 B,D,E,J,K,L,N,U,BE,VB,WB & IO550B & C engines and all engines with new style TCM Oil Pumps w/ integral oil filter mounting pad that is part of the oil pump.	08-05800	---
Stearman Kit, [Continental W670 Radial with 1" Lines]	08-05805	---
Waco Kit, [Continental W670 Radial with 3/4" Lines]	08-05810	---

TEMPEST SPIN-EZ OIL FILTERS

Tempest Oil Filters feature a MAGNETIC secondary filtration system that attracts steel particles too small to be caught in the filter media. • Base Plate Thickness: .187" • Burst Pressure: 700 PSI • Media Size: 311 sq. in. • AA48108 & AA48109: • Bypass Relief Valve TCM specs: 12-14 psi • Patented PC Housing.

Filter No.	Our Part No.	Price
AA48103-2	08-01266	---
AA48104	08-01267	---
AA48162 Cessna 162 LSA	08-48162	---

Filter No.	Our Part No.	Price
AA48108-2	08-01268	---
AA48109	08-01269	---
AA48110-2	08-01270	---
AA48111	08-01271	---

SPIN-ON OIL FILTER - SIX PACK

Part No.	Tempest	Price	Part No.	Tempest	Price
08-04969	AA48103-2-6PK	---	08-04972	AA48109-6PK	---
08-04970	AA48104-6PK	---	08-04973	AA48110-2-6PK	---
08-04971	AA48108--26PK	---	08-04974	AA48111-6PK	---

TEMPEST ROTAX OIL FILTERS

The new filter has all the features which have made the Tempest oil filter so popular, including the magnetic secondary filtration system, and higher burst pressure. Full Can Thickness:.019". Base Plate Thickness: 100" Burst Pressure: 275-325. Media Size: 118 sq. in ..... P/N 08-07226 ..... ---

FOR TEMPEST OIL FILTER TOOLS SEE PAGE 800.

AEROMAG

Note: Sold as a single unit, however to gain maximum results purchase as a set of two (one on each side). Within the tight clearances of today's aircraft engines, normal wear generates tiny steel particles that are carried away in your oil. These particles are so small they will pass right through an normal oil filter. When the oil circulates back into the engine, these same particles are carried into every lubricated space where they can cause three body abrasive wear. AeroMag® extracts normal, wear-causing steel particles from your oil with its powerful, focused, magnetic field technology. These particles are permanently trapped on the inside wall of the filter and are thrown away when the filter is changed. Slide the AeroMag® off the old filter, snap it onto a new one and it goes right back to work protecting your engine.

AM360 3.6" (Lyc & Cont with at least a 3.625 in. diameter oil filter)
P/N 08-01088 ..... ---
AM300 2.9" (Tall Rotax) ..... P/N 08-01235 ..... ---
AM150 2.5" (Short Rotax) ..... P/N 08-07058 ..... ---

LYCOMING

Description	Part No.	Price
Lycoming Homebuilt Kit	08-05605	---
STCD Husky Kit AFC-K005 Includes Hoses & Clamps	08-05635	---
STCD Super Cub Kit AFC-K006 Includes Hoses & Clamps	08-05630	---
STCD Universal Lycoming Kit	08-05660	---
All American Champion Aircraft with Lycoming engine. Includes Lifetime Teflon Firesleeved Hoses	08-15995	---
STCD Lycoming Kit-Fits all with Single Drive, Dual Magneto Engines.	08-05665	---
Lycoming Filter Relocation Kit - Requires existing Lycoming 77852 Spin-on adapter. Application does not include helicopters.	08-00038	---
K007-G Stearman Kit [Lycoming R680 Radial] Includes Hoses	08-13248	---
STCD Franklin Oil Filter Kit Includes Hoses & Clamps	08-05815	---

RADIAL

Description	Part No.	Price
P&W R985 Kit, Stearman	08-00995	---
AFC-K015-D P&W R1830 Kit, DC-3/C-47	08-00997	---
AFC-K015-E R985 Kit, Beach-18, Staggerwing, DGA-15	08-00998	---
P&W R1340 Kit, Otter	08-00999	---
AFC-K015-G P&W R985/1340 Kit, AG-Cat	08-01001	---
AFC-K015-H P&W R1340 Kit, AT301/401/501	08-01002	---
R1340 Kit, Thrush/S2D (Snow)	08-01003	---
AFC-K015-L P&W R985 Kit,	08-01004	---
FC-K015-K P&W R985 Kit, Weatherly; Gorilla Pump for radial engines.	08-07297	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TEMPEST AA472 OIL FILTER TORQUE WRENCH

The Tempest AA472 oil filter torque wrench is a great addition to any toolbox. Its 1" hex allows easy installation of all oil filters. The torque wrench also comes preset to 17 foot pounds and is easily recalibrated.

P/N 08-07023 ..... ---

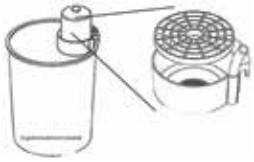
TEMPEST AA473 OIL DRAIN TOOL

Tired of messy oil filter changes? Tempest oil drain tool with a twist of the knob drills a hole in the filter and allows the oil to drain out of the filter into your container. No mess, easy to do and inexpensive. Tempest improved the popular AA473 Oil Filter Drain Tool by redesigning the swivel fitting to a smaller, more compact design. The new fitting also allows for easier use of the tool because of its "true" swivel characteristics. If you want to upgrade your previously purchased AA473 Oil Filter Drain Tool you can purchase the fitting individually.

Can only be used on Tempest Oil Filters.

Oil Drain Tool .....P/N 12-02248 ..... ---

TEMPEST AA473 OIL DRAIN TOOL



The Strain-O-Matic was created to take the hassle and mess out of draining oil filters, while simultaneously straining the engine oil for contaminants. The device hangs over the edge of a 5-gallon bucket. An included, Premium Silicone Tube connects to the engine oil drain valve. A removable 2" stainless-steel strainer is in the base of the unit. When an engine is making metal, it is a little-known fact that the oil filter will only contain a small fraction of this metal. Most of the metal fragments lie dormant at the bottom of the oil pan. As oil is drained from the engine, any metal fragments are washed out as the oil is drained. This metal is removed by the strainer. Once the oil has finished draining from both the filter and the engine, the strainer is removed and inspected. .....P/N 08-19277 ..... ---

TEMPEST AA474 OIL FILTER WRENCH EXTENSION

Some aircraft applications create an environment that does not allow adequate clearance to get a torque wrench or even an open-end wrench around the install nut on oil filters. Even though Tempest has recently introduced the Dash II filter, which is the shortest oil filter on the market, the clearance is still not enough on some applications, such as Beech Barons and Bonanzas. To eliminate this problem Tempest producs the AA474 oil filter wrench extension. **Features**: Chrome-plated steel provides a high quality tool.Easy to use torque conversation label on back of tool.

P/N 10-03929 ..... ---

SLICK T150 GAP GAUGE

Tool Gauge Gap. Will work on Lycoming and Continental engines.

P/N 12-00302 ..... ---

CHALLENGER OIL FILTER TORQUE WRENCH

Challenger CP102 Oil Filter Wrench Torque Wrench Adapter 1" L
P/N 12-01674 ..... ---

Challenger CP103 Oil Filter Wrench Torque Wrench Adapter 30 MMS
P/N 12-01675 ..... ---

Challenger CP102 Oil Filter Wrench Torque Wrench Adapter 1" ST
P/N 12-01676 ..... ---

ACS OIL CAN CUTTER

This unit has the capacity of both P/N AFC-470 & 12-21395. It also uses the same replacement blade as the 12-21395. Anodized "Red" for corrosion resistance. Base can be clamped in a bench vise if desired. Made in USA

P/N 12-01048 ..... ---

CT-709 OIL FILTER ADAPTER WRENCH

The CT- 709 tool, designed by a professional aircraft mechanic makes the job easier. Manufactured from tool quality steel, the wrench features both 3/8" and 1/2" drives, as well as "flip over" reversibility. For Cessna adapter for 150 Series through 300 Series Aircraft.

P/N 12-00792 ..... ---

TEMPEST OIL FILTER CAN CUTTER

This universal cutter from Tempest is easy to use and is a great addition to any toolbox. It's made from high quality aircraft aluminum, making it lightweight and very durable. Works on all aircraft spin-on oil filters. Adapter pin easily removed for 'male' filters.

P/N 12-01392 ..... ---

Tempest Oil Can Cutter Blades.

P/N 12-01393 ..... ---

AIRWOLF AFC-470 OIL CAN CUTTER

Every A&P knows the importance of cutting every single oil filter open after an oil change. The problem up to now was oil filters were difficult to open and the tools to open them were expensive. This is no longer the case with the Airwolf AFC-470 oil filter cutter. The AFC-470 is the easiest and quickest way to determine the current health of your engine. The Airwolf AFC-470 oil filter cutter is constructed out of a solid 6" billet of super strong 6061-T6 aluminum, hard anodized to resist scratches and wear. Stainless steel rollers allow the oil filter to spin effortlessly during cutting. And finally, our specially designed razor sharp cutter wheel hardened to 60 Rockwell, will make quick work of opening any oil filter. This filter is designed to last a lifetime. Fits new style oil filters. Champion/Tempest/Kelly Filters from 3.75" - 3.00" Dia

Opens oil filters from 3.75" - 3.00" Dia.....P/N 12-00789-1 ..... ---
Rotax Filters From 3.25" - 2.375" Dia .....P/N 12-02295 ..... ---
Large Fram Filters (Radial) .....P/N 08-07191 ..... ---
Replacement Cutting Wheel.....P/N 08-13957 ..... ---

HAND CRANK OIL FILTER CUTTING TOOL

This tool was designed to eliminate much of the mess that occurs with small handheld oil filter cutting tools. Very simple to operate, it is excellent for individual aircraft owners as well as FBO's and maintenance shops where a lot of filters need to be cut. Simply clamp in a vise, screw on the filter, turn the cutter into the filter and hand crank to open the filter. The rugged construction enables this tool to operate trouble free for years.

P/N 12-00122 ..... ---

Replacement Cutting Wheel.....P/N 12-01685 ..... ---

HV-FLEX OIL FILTER FLUID EXTRACTOR TOOLS

Accomplish oil filter extraction task without the mess with quality, US-patented HV-FLEX TOOLS. Our products are guaranteed to help speed up the process. Based in Gilford, New Hampshire, our company offers our products nationwide and beyond. Tidy. Efficient. Eco-Friendly. Oily and messy situations are common when replacing spin-off filters. Luckily, the HV-FLEX TOOLS were created to solve this problem, helping save time and cost from clean-ups. Our products extract the oil accumulated within spin-off oil filters during routine replacement. They are used on oil, diesel fuel, and hydraulic fluid filters found in automotive, marine, aviation industries, and etc. The HV-FLEX TOOLS offer a quick and clean oil filter extraction process. In addition to all of this, the oil fluids collected from the vacuum pump reservoirs can be recycled, reducing oil waste and negative environmental impacts.

2.5 inch diameter.....P/N 12-06428 ..... ---
3 inch diameter.....P/N 12-06429 ..... ---
3.5 inch diameter.....P/N 12-06430 ..... ---
4.5 inch diameter.....P/N 12-06431 ..... ---

EP

OIL FILTER TOOLS – GARDSERT REPAIR KITS

AVIATION OIL FILTER CUTTER

This aviation oil filter cutter will open any size oil filter canisters for your inspection. To use the tool, place the filter in a vice, attach the tool to the top of the filter, and rotate 4 to 6 turns to open the canister. The cutting wheel will stay sharp for about 50 uses, and is easily replaced when dull. The tool is made from 6061 aluminum with a purple anodized finish. The tool is ready to use on any oil filter with a male or female thread.

Oil filter cutter ..... P/N 12-21395 ..... ---
Replacement cutting wheel ..... P/N 12-21396 ..... ---

TEMPEST AA471 OIL FILTER MEDIA CUTTER

Tempest's new AA471 provides a low cost, efficient and safe tool that every mechanic will want to put in their tool box. Strong guard and non-retractable blade to secure the media and ensure an accurate cut.

P/N 12-01854 ..... ---

FC-2000 OIL FILTER CAN CUTTER

Features: • Cuts all Champion, Hartzell, and Tempest 3.7" Dia. oil filters • Rugged 6061-T6 aluminum construction • Roller bearings provide smooth rolling action • Hardened hardware throughout • No parts to change • Can cut in either direction • Made in USA Lifetime Warranty.

P/N 12-00923-1 ..... ---
Replacement Cutter Wheel ..... P/N 12-01689 ..... ---

FC-3000 OIL FILTER CAN CUTTER

This an cutter incorporates a longer plate that allows cutting filters from 3.7 to 4.7 inches in diameter. Roller bearings provide smooth cutting action. Ideal for cutting racing filters too! Black anodized finish.

P/N 12-02628 ..... ---

CHAMPION OIL CAN CUTTER

The Champion CT923 Cutter allows for oil filters to be cut in either direction. This is a complete tool with no parts or adapters to change. It is very easy to use, and will provide a simple effective means of cutting open oil filters. This also cuts the Champion filters used on the Rotax 912 and 914 engines.

CT923 ..... P/N 12-04948 ..... ---

OIL FILTER WRENCH

This very versatile, revolutionary oil filter wrench is for the aviation community and aircraft enthusiasts. This wrench was created specifically for you and your airplane. This tool is small, light-weight and easy to use making your filter servicing and installations fast and easy. With very little effort your oil filter can be removed or run in and torqued. This super wrench is constructed with materials that are very strong, (4130 heat treated steel) then electroplated to meet our standards and will provide you with years of service. ..... P/N 05-12376 ..... ---

FMC-2000 OIL FILTER MEDIA CUTTER

This patented tool is designed to hold Champion Aerospace brand Aviation oil filter spools, and to allow cutting the paper filter media at each end of the spool without holding the filter spool by hand. Using this tool reduces the risk of cutting one's hands while cutting the filter media as well as reducing the time necessary to accomplish this task. The filter media is rotated in a special holder that is supported by roller bearings. A knife, with a retractable safety cover is brought into position to make a clean cut of the filter media at each end. The filter media can then be removed for inspection.Patented.

FMC-2000BL Media Cutter Blades (3 pack) .. P/N 12-01688 ..... ---
FMC-2000K Kelly Filter Cutter Adapter ..... P/N 12-01686 ..... ---
FMC-2000T Tempest Filter Cutter Adapter.... P/N 12-01687 ..... ---
Replacement Cutting Wheels ..... P/N 12-00183 ..... ---

TOMS OIL FILTER CUTTING TOOL

Tom's oil filter cutting tool will allow you to inspect your aircraft's oil filtering material for trapped debris in a quick and easy manner. Oil filter inspection is a critical measure of your engine's health and should always be a part of your aircraft's regular maintenance program. Most filter cutters work like a pipe or tubing cutter in that you have to go around and around the filter, adjusting cutter depth with each pass. Although you could do that with this tool, the real beauty of this new product is that the cut can be easily made in one pass. The tool is designed primarily for Lycoming oil filters that have a threaded insert protruding from the end of the filter. A few Lycoming oil filters and most Continental oil filters do not have this insert. For these filters, an adapter insert is supplied with the tool. Tom's oil filter cutter may also be used on smaller filters such as found on Rotax or automotive engines. Simply remove the cutter handle and reposition the pivot bolt to the inner hold on the base handle. The adapter insert may be needed on these filters as well. Made in USA.

P/N 12-01697 ..... ---

TALON OIL FILTER REMOVAL TOOL

The Talon Oil Filter Tool was created to remove stubbornly stuck oil filters. It is 50% stronger than the standard 10M-OFT type. The tool is safe in tight quarters and unable to slip, attempting to minimize damage to nearby components. This is still a messy process but this tool is your best chance of removing stuck filters with-out damaging anything else.

Features: • Three pin (TALON) engagement in oil filter plate for stability and strength • Good for up to 1500 in. lbs. of torque • Works in tight spaces! • Works on Aircraft, Automotive, Marine, and Recreational Vehicle applications • Made in the USA

P/N 11-11556 ..... ---

GARDSERT STUD REPAIR KITS

GARDsert® FAA DER approved repair kits contain special high-strength threaded inserts to repair piston, turbine engine cases, airframe and instrument components that have stripped threads.
Repair kits contain Stud, Tool Assembly Gauge Pin, MTS Drill Bit, Deluxe Tapping Fluid .5oz, Small Plastic Tray.

Description	Part No.	Price
1/2-13 Gardsert Stud Repair Kit	08-17552	---
1/4-20 Gardsert Repair Kit	08-17536	---
1/4-20 Gardsert Stud Repair Kit	08-17546	---
1/4-20 Thinwall Gardsert Repair Kit	08-17538	---
1/4-28 Gardsert Repair Kit	08-17537	---
3/8-16 Gardsert Repair Kit	08-17547	---

Description	Part No.	Price
3/8-16 Thinwall Gardsert Repair Kit	08-17545	---
3/8-24 Gardsert Repair Kit	08-17548	---
5/16-18 Gardsert Repair Kit	08-17540	---
5/16-18 Thinwall Gardsert Repair Kit	08-17542	---
5/16-24 Gardsert Repair Kit	08-17541	---
7/16-14 Gardsert Stud Repair Kit	08-17551	---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

OIL FUEL FLOW RESTRICTOR FITTING

An oil/fuel flow restrictor fitting designed to fit the Lycoming engine oil pressure port as well as the fuel pressure port on the KB-090-T. This fitting is a modified AN823-4 and the restriction is a .040" hole. Threaded end is 1/8" NPT .....P/N 05-11908 ..... ---

CONTINENTAL REMOTE OIL FILTER ADAPTER

Replaces the oil screen and will fit C65 thru O-200 engines. 3 ports In and out. Note: This Continental Remote Oil Filter Adaptor will go nicely with the Remote Oil Filter Bracket 08-01057. For Experimental use only Does not include fittings or copper gasket as shown in image. IN & OUT pipe threads in the continental oil filter adapter are: 3/8-18 npt (female). The third hole is a 5/8-18 straight thread with a 45 degree chamfer at the bottom of the thread for a temperature probe to seat against.

P/N 08-13154 ..... ---

Note: The Oil Temp Probe Delete Plug is an Optional plug for a builder that doesn't need to use an oil temperature gauge and chooses to plug the 5/8-18 port on the Continental remote oil filter adapter. No Crush gasket needed as the sealing surface (or seat) is the 45-degree chamfer at the bottom of the thread in the temp probe port. Remember to be sure these chamfers are clean and scratch free when installing. There are safety wire holes provided.....P/N 08-17065 ..... ---

B&C BC700 LYCOMING OIL FILTER ADAPTER

The original 90-degree oil filter adapter for Lycoming engines, precision CNC machined from billet aluminum. Designed to provide a high-quality replacement for the stock Lycoming oil screen or horizontal spin-on filter adapter, the BC700 mounts directly on the engine accessory case without interference with the magnetos, vacuum pump, or standard mechanical tach drive. STC/PMA on Lycoming 0-235; O, IO, LIO, AIO, AEIO-320; O, IO, LIO, HO, HIO, TIO, AEIO-360; O, IO, HIO, TIO, LTI, AEIO-540 & IO-720 series engines. Adapter kit also includes a new gasket, crush washers, mounting bolts, and CH48108-1 filter. Weight: 1 lbs. (with filter: 2.30 lbs).

BC700-1 Oil Filter Adapter, STC/PMA.....P/N 08-00195 ..... ---
BC700-H Oil Filter Adapter, Homebuilt.....P/N 08-00196 ..... ---

ACCESSORIES:

B&C Oil Temperature Probe Adapter.....P/N 08-07092 ..... ---

CESSNA / CONTINENTAL OIL FILTER ADAPTER KITS

Part No.	Aircraft Application	Price
0450404-3	C150, A150, F150, FA150, FRA150	---
0556010-200	C172, F172	---
1250922-201	C180, C185, C188, T188	---
1250922-200	C205, C206, U206, P206, 207, 210	---

All the Continental spin on adapter kits above require the following items in addition to the adapter: Oil Filter.....P/N CH48110 ..... ---
Nut.....P/N 1250405-1 ..... ---
AN123883 O-Ring.....P/N 08-04930 ..... ---

LYCOMING SPIN-ON FILTER ADAPTER KITS

Part No.	Aircraft Application	Price
LW-13743	All Applicable Engines Except Models Shown In Table Below	---
LW-13744	0-235 Series	---
LW-13745	IO-720 with 1200 Series Series Magnetos	---
08-00513	0-320-H (LW-14969)	---
LW-13904	All Engines with Dual Magnetos. Includes Converter Plate Assembly and Does Not Include Filter	---

All Lycoming spin on oil filter adapter kits above include adapter, oil filter assembly, adapter plate, gaskets, & attaching hardware. LW-14969 kit also contains oil cooler bypass valve assembly, 2 elbows, & 2 oil seals for oil cooler installations.

CASPER LABS NO SPILL OIL FILTER HOUSING

The Casper Labs "full flow" vertical oil filter kit is designed to provide Lycoming Engine owners several improvements over the standard Lycoming oil screen or filter hardware. This device locates the filter in the vertical plane.

The unit has no moving parts and requires no maintenance. Standard aviation filters are compatible. Temperature probe hardware transfers directly from the present screen housing or OEM filter adapter. **Note**: Verify the adapter and filter fit in the engine compartment before bolting the unit on to the case. **Kits Include:**
• Filter (some kits do NOT include a filter: see descriptions for details)
• Housing • O-Ring and Washers, seal rings, gasket & installation manual

Description	Part No.	Price
CL1000A-STC Kit with CH48109-1 Filter	08-01237	---
CL1000A-STC Kit with CH48108-1 Filter	08-01236	---
CL1000A-STC Adapter ONLY for Retrofit Lycoming Engine (see web for models)with 2/MAG & 2 Drive ONLY	08-01094	---
CL1000A-EXP (EXPERIMENTAL) Kit with CH48109-1 Filter	08-00977	---
CL1000A-EXP (EXPERIMENTAL) Kit with CH48108-1 Filter	08-00976	---
CL1000A-EXP (EXPERIMENTAL) Adapter ONLY (no filter)	08-00975	---

AEROQUIP E-Z OIL DRAIN SUMP VALVES

Makes aircraft oil changes easy. The hand actuated valve when attached to the oil drain port permits engine oil changes from the ground without removing the engine cowling. The spring loaded E-Z Drain valve cannot be accidentally opened. Actuation of the valve requires a combination push/twist motion. It also contains a dual seal arrangement which combines both an O-ring & metal-to-metal seal to prevent accidental leakage of oil through the valve. FAA Approved for use on the engines listed. Incorporates fine Aeroquip quality hose. Installation eligibility listing furnished with each unit.

Part No.	Engine Application	Thread	Price
AE99950G	Cont. C-90, O-200, GO-300, IO-360 TSIO-360, O-470, IO-470 TSIO-470, IO-520, TSIO-520, GTSIO-520	5/8-18	---
AE80666H	Cont. O-300, late C-145	1-18	---

Valve O-Ring, All Models..... MS28775-011 .....--- Ea.
Interface O-Ring..... AE99950G MS28775-113.....--- Ea.
AE805555H MS28775-118.....--- Ea.

Not to be used on Piper Models PA-28R-200, PA-28R-201, PA-28RT-200.

SAF-AIR OIL DRAIN SUMP VALVES

Changing hot engine oil has never been easier! With the SAF-AIR oil drain valve, no wrench is needed to remove the drain plug. A simple push and turn of the SAF-AIR valve locks it in the open position. The valve is made completely from anodized aluminum and stainless steel components. These materials are used throughout the aircraft industry due to their strength and durability. FAA & PMA APPROVED.

Part No.	Engine Application	Thread	Price
S6250	Cont. (same as Aeroquip AE99950G)	5/8-18	---
S1000	Cont. (same as Aeroquip AE80666H)	1-18	---
P5000	LYC (same as Aeroquip AE80664H)	1/2NPT	---
M12175	ROTAX 912, 914	12mm x 1.75	---
S7516	Cont IO-520-E	3/4"-16	---
P7500	Franklin Engines	3/4" NPT	---
S5020J	Jabiru 2200 / 3300	1/2"-20	---
M20150	Subaru 2.2L / 2.5L	20-1.50mm	---
F62	Continental	5/8-18	---

F62

SAF-AIR LOW PROFILE 2-PIECE OIL DRAIN SUMP VALVES

Perfect for a close clearance engine oil drain application such as on the Piper Arrow. These low profile oil drain valves are designed to clear retractable landing gears & other restrictions. The valve is very affordable and can be rebuilt. It is a simple procedure to sample or drain hot oil. The valve is made from 360 brass & 302 stainless steel. FAA & PMA APPROVED. All valves come with a F50-180 opener.

Mfg. No.	Engine Application	Thread	Part No.	Price
F62	Continental	5/8-18	05-00981	---
F10	Pratt & Whitney	1-18	05-00982	---
F50	Lycoming	1/2-18 NPT	05-00983	---
F50-90 - Bent	Lycoming, Continental, Pratt & Whitney, Franklin	--	05-06924	---
F50-180 - Straight	Lycoming, Continental, Pratt & Whitney, Franklin	--	05-15064	---

CURTIS OIL DRAIN VALVES

Quick opening drain valves for aircraft oil or fuel systems. A slight twist opens valve. No safety wire needed in closed position. Designed for installation in a standard NPT port for NPT threaded valves or an AND-10050 style port for UNF threaded valves. Use a sealant on NPT threaded valves or a fuel resistant o-ring of the proper size for UNF threaded valves.

Mfg. No.	Application	Thread	Part No.	Price
CCB-5000	Lycoming	1/2 NPT	05-22973	---
CCB-38000* (Low Profile)	Lycoming	1/2 NPT	05-15400	---
CCA-1400	Lycoming	1/2" NPT	05-03060	---
CCA-1700	Lycoming	1/2" NPT	05-01872	---
CCB-37000*	Lycoming	1/2" NPT	05-03061	---
CCB-36000H*	Lycoming	1/2" NPT	05-15399	---
CCB-6250	Continental	5/8-18 UNF	05-22974	---
CCB-33000*	Continental	5/8-18 UNF	05-15398	---
CCA-39560	Continental	5/8-18 UNF	05-03656	---
CCA-39550	Continental	5/8-18 UNF	05-01873	---

*FAA-PMA Approved

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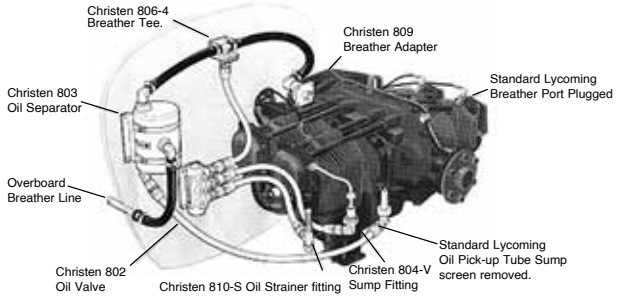
CHRISTEN 801 INVERTED OIL SYSTEM



This accessory kit for Lycoming engines provides normal engine lubrication with minimal oil loss during aerobatic flight. It functions as a self-contained extension of the normal engine oil and breather systems. Can be installed in a few hours without engine disassembly.

Part No.	Description	Price
801-4	For four-cylinder engines. Includes 802 Oil Valve (with plug wrench and plugs for unused ports), 803 Oil Separator, 806-4 Breather Tee, and product manual which provides detailed instructions for application. Weight: 4.75 lb. installed.	---
801-6	For six-cylinder engines. Same as 801-4 Kit, but is supplied with 806-6 Breather Tee. Weight: 4.75 lb. installed.	---
811-V	For vertical-screen sump engines. Includes 810-S Oil Strainer Fitting, 810-R Oil Return Fitting, 804-V Sump Fitting (vertical type) with crush gasket and MS20822-10D elbow. Weight: 0.50 lb. installed.	---
811-A	For horizontal-screen sump engines. Includes 810-S Oil Strainer Fitting, 810-R Oil Return Fitting, 805 Sump Plug with insertion tool, 804-A Sump Fitting (angular 360° swivel-type) with crush gasket and wrench for swivel clamping screw. Weight: 0.36 lb. installed.	---
811-S	For horizontal-screen sump engines. Includes 810-S Oil Strainer Fitting, 810-R Oil Return Fitting, 805 Sump Plug with insertion tool, 804-S Sump Fitting (straight-type) with crush gasket. Weight: 0.33 lb. installed.	---
809-K	For engines with forward breather ports such as the O-235 and O-290 models. Includes 809 Breather Adapter with gasket. AN842-12D hose elbow, and MS20913-6D plug for forward breather port. Weight: 0.53 lb. installed.	---
812-2	For addition of oil ports to engine sumps. Includes two 812 Weld Bosses and quantity of 5% silicon-aluminum welding rod (type 4043) Weight: 0.12 lb. installed.	---
812-1	Same as 812-2 Kit, except with only one 812 Weld Boss for addition of single sump port. Weight: 0.06 lb. installed.	---
813-4	Stainless steel spring wire. Installed inside breather hose to permit relatively sharp bends without collapsing or kinking. 10 x 47/64". Weight: 0.12 lb. installed.	---
813-6	Stainless steel spring wire. Installed inside breather hose to permit relatively sharp bends without collapsing or kinking. 10 x 63/64". Weight: 0.12 lb. installed.	---
807-4	All hoses and fittings required for deluxe show-plane quality installation on four-cylinder engines. Includes Aeroquip braided stainless steel hose for oil lines, MIL-H-6000 rubber-fabric hose for breather lines, thin abrasive cut-off wheel for professional-quality hose cuts, AN and MS fittings (blue anodized), Aeroquip hose end fittings (blue and red anodized), and miniature stainless steel hose clamps. All materials are factory new; no surplus. Weight Excluding Hose: 1.53 lb. installed.	---
807-4 Economy Hose & Fitting Kit	These kits include same items as Aviat Factory Kits but are packaged by Aircraft Spruce.	---
807-6 Economy Hose & Fitting Kit		---

10-page detailed manual - describes system operation & procedure for selecting proper components for each engine model.
P/N 05-20600 ..... **--- ea.**

CHRISTEN OIL VALVE

Multiple port gravity operated ball valve. It is cast aluminum with textured white epoxy enamel finish and all internal steel parts are cadmium plated. Normally installed on firewall or on engine mount. Designed for fittings to be installed either at side or front or both. Requires 3 AN816-10D nipples for hose connection. Wt. 1.75 lbs. installed. .....P/N 08-06745 ..... ---

CHRISTEN OIL SEPARATOR

Features welded aluminum construction with a textured white epoxy enamel finish. All internal parts are cadmium plated, and unit includes stainless steel positioning clamps. Normally installed on fire wall or on engine mount. Requires 2 AN842-12D or -16D hose elbows and one AN823-10D hose fitting. Wt. 2.8 lbs. installed. Applicable to all Lycoming engine applications. Used to replace a worn out or broken oil separator on Christen 801-4 systems only ..... P/N 08-06740 ..... ---

BOGERT AVIATION 180 DEGREE OIL QUICK DRAIN PROBE

Drain probe not only gives you an alternative to the high priced AVI probe but it includes some major improvements. Probe is leak proof! The AVI design could leak where it mates to the valve plunger making a mess. This design incorporates an O-ring seal around the valve body preventing leaks. The O-ring also locks the probe to the valve body. Also note the larger drain tube to speed up the oil flow and prevent restrictions. Valve NOT included, this is Probe ONLY..... P/N 12-03289..... ---

BOGERT AVIATION 90 DEGREE OIL QUICK DRAIN PROBEOIL QUICK DRAIN PROBE

This drain probe not only gives you an alternative to the high priced AVI probe but it includes some major improvements. The first big improvement is that the probe is leak proof. The AVI design could leak where it mates to the valve plunger making a mess. Incorporates an O-ring seal around the valve body preventing leaks. The O-ring also locks the probe to the valve body. The compactness of the probe, is actually shorter than the BJ 107B making it easier to install. 09M-PRB90 **Replaces**: • Piper part number 481-359 • Beechcraft part number 107-B • Auto Valve Inc. AVI-BJ-107B .....P/N 12-03237 ..... ---

BOGERT AVIATION ENGINE CESSNA OIL QUICK DRAIN STC

Drain oil in wind or shop with little clean up. Saves money on clean up, solvent, labor and parts. Oil goes into bucket without splashing or spilling. Made in the USA. Approved for: Cessna 210J through 210 R, T210J through T210R, P210H through P210R, 337 through 337H, T337B through T337H, and P337H, 310 through 310R, T310P through T310R, 320 through 320F, 340, and 340A, 401 through 401B, 402 through 402C, 404, 411, 411A, 414, 414A, and 421 through 421Cnd 421 through 421C

Description	Part No.	Price
Single Engine Kit Includes: 1 ea. 09-OQD STC Paper work 1 ea. 09-Probe 1 ea. 09-BJ107 Valve w/o-ring 1 ea. 09-AN900-10 Gasket	12-02101	---
Twin Engine Kit Includes: 1 ea. 09-OQD STC Paper work 1 ea. 09-Probe 2 ea. 09-BJ107 Valve w/o-ring 2 ea. 09-AN900-10 Gasket	12-02102	---

RAVEN INVERTED OIL SYSTEMS

The Raven Full Oil System includes a CNC machined adjustable valve. There are no extra holes to plug, you simply rotate it to where you want it. The system includes the valve, mount and clamps, as well as the air/oil separator, mount and clamps. Both the valve and separator use stainless steel internal parts and are powder coated for durability. The weight of all components is 4 ½ lbs. The Raven Half System is the breather portion of the full inverted system, it is used to perform basic positive G aerobatics where a full inverted system is not required, it will catch and return approx 95% of the oil that would normally end up overboard when performing basic maneuvers.

Description	Kit Contents	Color	Part No.	Price
Half Inverted Oil System 4"	Air/Oil Separator & Mount with Clamps & Sump Return Fitting	Black	08-15637	---
Half Inverted Oil System 4"		White	08-15638	---
Full Inverted Oil System 5"	Valve & Mount with Clamps, Air/Oil Separator & Mount with Clamps	Black	08-00796	---
Full Inverted Oil System 5"		White	08-00800	---
Full Inverted Oil System 4"		Black	08-00797	---
Full Inverted Oil System 4"		White	08-00801	---

RAVEN INVERTED SYSTEM VAC ADAPTERS

These vac adapters are machined from solid aluminum with anodized finish. Furnished with a seal installed, and complete with AN fitting and gaskets. Non-Acc'y Vac Pad Oil P/U .....P/N 08-00786 ..... ---

RAVEN SUMP FITTING KITS

These sump fitting kits come with specialized fittings, washers, O rings needed to install the kit.
Sump kit for Horizontal screen 4 or 6 cyl. Lyc.With
Straight Fitting ..... P/N 08-00787 ..... ---
With 45° Swivel ..... P/N 08-15780 ..... ---

EP

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AIRWOLF OIL SEPARATORS

The Airwolf Air/Oil Separator will improve the efficiency of your aircraft dramatically whether it is a single engine fun craft of a twin powered corporate plane. Designed to separate air and oil in the crankcase breather & wet vacuum pump systems on conventional aircraft engines, Airwolf recovers oil from the crankcase, thus eliminating the oily overboard discharge and the ever present "oily belly" syndrome. Oil loss is greatly reduced - tests have indicated a recovery of up to 80% of crankcase oil previously wasted, depending on the type and condition of the engine.

The Airwolf oil recovery system is only slightly larger than an oil filter cartridge (4" dia. x 7.5") and it is available for all conventional engines regardless of displacement. It can be easily removed and disassembled for inspection and cleaning. With no moving parts, the Airwolf is designed to last the life of your engine. Available for planes with either wet or dry vacuum pump. Now STC'd for most aircraft. Available in black epoxy finish only. Specify aircraft model no., serial no., and engine model.

Airwolf Part No.	Part No.	Price
AFC-302-A	08-03806	---
AFC-314-B	08-13288	---
AFC-315-B	08-13292	---
AFC-5006	08-05630	---
AFC-700	08-07390	---
AFC-K001	08-05605	---
AFC-K005	08-05635	---
AFC-K007-A	08-05660	---
AFC-K007-B	08-05665	---
AFC-K007-F	08-00038	---
AFC-K007-G	08-13248	---
AFC-K008-A	08-05675	---
AFC-K008-B	08-05680	---
AFC-K008-C	08-05685	---
AFC-K008-D	08-05690	---
AFC-K008-F	08-05800	---
AFC-K008-G	08-05805	---
AFC-K008-H	08-05810	---
AFC-K009	08-05815	---
AFC-K015-A	08-00995	---
AFC-K015-B	08-00039	---
AFC-K015-CA	08-00996	---
AFC-K015-D	08-00997	---
AFC-K015-E	08-00998	---
AFC-K015-F	08-00999	---
AFC-K015-G	08-01001	---
AFC-K015-H	08-01002	---
AFC-K015-J	08-01003	---
AFC-K015-K	08-07297	---
AFC-K015-L	08-01004	---
AFC-K017-B	08-13612	---
AFC-W300-A	08-00645	---
AFC-W302-B	08-13260	---
AFC-W303-A	08-13261	---
AFC-W306-A	08-07398	---
AFC-W306-B	08-13271	---
AFC-W311-A	08-01303	---
AFC-W311-B	08-13282	---
AFC-W314-A	08-03834	---
AFC-W315-A	08-13291	---
AFC-W316-A	08-00652	---
AFC-W318-A	08-01297	---
AFC-W321-A	08-00655	---
AFC-W321-C	08-13576	---
AFC-W321-D	08-13577	---
AFC-W323-A	08-01306	---
AFC-W323-B	08-13578	---
AFC-W328	08-13249	---
AFC-W333-B	08-13600	---
AFC-W347-A	08-13643	---
AFC-W400	08-07189	---
AFC-W410	08-05887	---

VERIFY AIRCRAFT APPLICATION BEFORE ORDERING.
VISIT WWW.AIRCRAFTSPRUCE.COM FOR AIRCRAFT APPLICATION CHART.

Airwolf W-2300 Air/Oil Separator gasket ..... P/N 08-13956 ..... ---

08-00631

TEMPEST ENGINE MOUNTED OIL FILTER ADAPTER

Tempest engine mounted oil filter adapters eliminate the need for oil screens and provide increased filtering capabilities for longer engine life. Being engine mounted with no external lines, they reduce mess during oil changes and increase the time between oil changes. STC APPROVED. **Note**: Tempest filters are included with adaptors. Price listed is for one adapter each.

FM Model	Aircraft Application	Engine Application	Part No.	Price
T.A.F.-L	Cont. C-75-12 C-85-12 O-200 O-200A	Cessna 120, Cessna 140, Cessna 150, Luscombes, Taylorcrafts, Cubs **Note**: Will only for Cubs with pressure cowls (totally encloses the engine). Will not work on Cubs that cylinders stick out through the cowling.	08-00631	---
CO-300	Cont. C-125, C-145, CO-300	Cessna 170, 172, Globe Swift, Maule	08-00632	---
C6LC-S	Cont. O-470, IO-470, IO-520	Bellanca Viking, Cessna 182, 55 series Beech Baron	08-00633*	---
C6LC-L	Cont. O-470 IO-470, IO-520	Cessna 205, 206, 207, 210, 310, Beech Bonanza & Debonair, Navion, Meyers, Twin Commander,Widgeon	08-00634	---
C6LC-11/15	Cessna L-19 "Bird Dog"	Continental Motors 0-470-11 and 0-470-15	08-01037	---
C6SC	Cessna 175, Cessna 172 Hawk XP, Maules, Cessna 337, Cessna 336, Cessna 0-2, Mooney M20-K, Piper Turbo Arrow III & IV, Piper Seneca II PA-34-200T	Continental GO-300 Series & IO-360 Series	08-01038	---

*** WILL NOT FIT AIRCRAFT WITH FLOATS**

TEMPEST OIL FILTER ADAPTER GASKETS

These Gaskets work with the Tempest Oil Filter Adapters, see your manual to ensure proper selection.

Tempest Gasket FM-02.....P/N 08-13896 ..... ---
Tempest Gasket FM-29.....P/N 08-15639 ..... ---

TEMPEST GASKET KIT ST07

Stratus Tool Technologies ST07 is a multi-layer gasket designed to combine the enhanced anti-leak characteristics of the FM07 fiber gasket with the resiliency and resistance to sudden rupture of the AN900-28 copper crush washer. The outer facings of this new gasket are comprised of an expanded PTFE matrix that provides better conformance to sealing surface imperfections. The perforated stainless steel core is embedded within the ePTFE to enhance stability and increase blowout resistance .....P/N 08-17584 ---

AIRWOLF MINI AIR/OIL SEPARATOR

Reduce oil consumption and remove harmful water vapor with Airwolf's Walker Air/Oil Separator. The AirSep distills and recirculates crankcase oil vapor generated by normal operation, extending engine life. The Airwolf Walker AirSeps uses a tiny amount of vacuum pump discharge air, to help condense the oil inside the AirSep, and to overcome crankcase pressure to return collected oil to the engine while the engine is running. The competitive systems are only gravity flow so no oil returns into the engine until the engine is completely shut off. Thus, one system is large enough to clean both the engine breather oil and wet vacuum pumps discharge. It comes with a lifetime warranty on workmanship and material of all new AirSeps produced. STC'd

MiniSep, 3/4" Inlet .....P/N 08-05887 ..... ---
MiniSep, 5/8" Inlet .....P/N 08-07189 ..... ---

CHALLENGER FAA/PMA LIFETIME OIL FILTER SYSTEM

The filter element is made from medical grade, type 304 stainless steel micronic filter cloth providing unmatched protection against oil contamination and resultant engine damage. A rare earth magnet is installed in the top of the element for magnetic pre-filtering of the oil. The unique twist lock design allows for easy disassembly, inspection and cleaning. The quad-ring gasket doubles the seal between the filter and the engine. The filter housing is carved out of a solid piece of 6061 T6 billet aluminum with cooling fins, which not only looks good but aids in dissipating heat. **Features**: • Cleanable and Reusable • High Flow Rate • Unique Twist Lock Design • Exteriors Fins • Unaffected by Water, Heat, or Pressure • Safety Wire Attachments 360 degrees • Environmentally Friendly.

Challenger	Replaces	Our P/N	Engine Model	Price
CP-48103C 13/16-16 Thread w/o Relief Valve	CH48103-1	08-06017	Lycoming O-320, IO320, O360, IO-360, LO-360, TO-360, HIO-360, LTO-360, LHI0-360 SERIES	---
CP-48108C 3/4-16 Thread w/o Relief Valve	CH48108-1	08-06019	Continental 6-285, IO-346, IO-360, TSIO-360, O-470, IO-470, LIO-470, TSIO-470, IO-520, TSIO-520, GTSIO-520, LTSIO-520, IO-550 SERIES	---
CP-48109C 3/4-16 Thread w/ relief valve	CH48109-1	08-06020		---
CP-48110C 3/4-16 Thread w/ Nipple w/o Relief Valve	CP48110-1	08-06021	Lycoming O-235, IO-320 SERIES LIO-320, AIO-3230, AEIO-320, O360,IO360, AIO-360, HIO-360,LIO-360, TIO-360, LHIO-360, AEIO-360, O-540, IO-540, HIO-540, TIO-540, AEIO-540, LTIO-540, TIO-541, IO-580, IO-720 SERIES	---
CP-48111C 3/4-16 Thread w/ Nipple w/o Relief Valve	CH48111-1	08-06022		---
CP-9124C w/ Relief Valve	8245-706	08-07174	Bombardier-Rotax 912 F2, 912 F3, 912 F4, 912 S2, 912 S3, 912 S4, 914 F2, 914 F3, 914 F4	---

CHALLENGER OIL FILTER ELEMENT REPLACEMENTS

The filter element is made from medical grade, type 304 stainless steel micronic filter cloth providing unmatched protection against oil contamination and resultant engine damage. A rare earth magnet is installed in the top of the element for magnetic pre-filtering of the oil. The unique twist lock design allows for easy disassembly, inspection and cleaning. The quad-ring gasket doubles the seal between the filter and the engine. The filter housing is carved out of a solid piece of 6061 T6 billet aluminum with cooling fins, which not only looks good but aids in dissipating heat.

Challenger	Application	Part No.	Price
CP-621	Challenger 48103, 48104	08-07370	---
CP-620	Challenger 48108, 48109	08-07369	---
CP-619	Challenger 48110, 48111	08-07366	---
CP-720	Challenger 9124C	08-07371	---

CHALLENGER ACCESSORIES

Description	Part No.	Price
CP-621 48103, 48104 Element	08-07370	---
CP-620 48108, 48109 Element	08-07369	---
CP-619 48110, 48111 Element	08-07366	---
CP-720 9124C Element	08-07371	---
CP-623 Oil Filter Quad Seal Gasket	08-07186	---

CHALLENGER STAINLESS STEEL MICRONIC OIL FILTER FOR ROTAX 912/914 ENGINES

The filter element is made from medical grade, type 304 stainless steel micronic filter cloth providing unmatched protection against oil contamination and resultant engine damage. A rare earth magnet is installed in the top of the element for magnetic pre-filtering of the oil. The unique twist lock design allows for easy disassembly, inspection and cleaning. The quad-ring gasket doubles the seal between the filter and the engine. The filter housing is carved out of a solid piece of 6061 T6 billet aluminum with cooling fins, which not only looks good but aids in dissipating heat. **Features**: • Cleanable and Reusable • High Flow Rate • Unique Twist Lock Design • Exteriors Fins • Unaffected by Water, Heat, or Pressure • Safety Wire Attachments 360 degrees • Environmentally Friendly.....P/N 08-07174 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

OIL FILTER BIB

For horizontal or angle-mounted filters. No more messy oil changes! Catches the Oil & the Filter. No Dripping. No Spillage. No Messy Clean-Ups. Easy To Use. Slide Bib Around the Oil Filter, pull up on Tabs and Tilt to Form a Seal, and unscrew the Oil Filter. Withstands High Temperature. Will not melt, weaken or leak from Hot Engine Oil and Filter. Great for filters in tight places. Fits any sized filter. Disposable.

3 pack.....P/N 12-04883 ..... ---
10 pack.....P/N 12-04884 ..... ---

SUPER SLIME FIGHTER®

Following in the success of the Slime Fighter® series of air separators, Aircraft Spruce now offers the Super Slime Fighter with the same ease of installation for large Lycoming engines found in aircraft such as the RV-10, Glassair III and the F1 Rocket. Installs in 20 minutes with no additional drain line required. Includes instructions. Clamps and hoses are only included in the RV-10 kit. RV-10 kit includes custom hose shape. Not FAA approved.

Standard (80HP-160HP) .....P/N 08-13971 ..... ---
Mid-Size (160HP-220HP).....P/N 08-13972 ..... ---
Large (220HP-320HP).....P/N 08-13973 ..... ---
RV10 Experimental .....P/N 08-06152 ..... ---

HOMEBUILDER'S OIL BREATHER/SEPARATOR

These 4 inch diameter reservoirs have beaded outlets for 5/8" I.D. hoses and a mounting flange for easy firewall attachment. These units are of a new, improved design and the reservoir body is now a spun aluminum bowl for optimum performance. The oil separators minimize oil loss and allow free breathing of the engine. They are recommended for experimental aircraft use only and are not STC'd for any certificated aircraft. Size: 4"dia.x 3-3/8"h. .....P/N 10570 ..... ---

RMJ-AERO OIL SEPARATOR

Designed to remove oil from the engine crankcase breather line providing the builder with a cleaner plane, less oil consumption, and prolonged engine life from maximum cooking, cleaning, & lubrication. Fashioned after Tony Bingelis' proven design, these separators incorporate several enhancements, including O-ring seals for the lid. Fabricated from aircraft quality materials, TIG welded, and alodyned for corrosion control. They can be firewall or cooling baffle mounted with the cushion clamp provided. The design allows for easy installation in the breather line by the use of hose clamps. Oil from the separator is returned thru tubing to a port in your engine's housing. Should your engine not have an available oil return port, RMJ-Aero can provide a Self Sealing Clamp-On Adapter utilizing your engine's oil filler neck. Installation of this adapter is easy for both flying and aircraft under construction. When clamped in place around the filler neck, the adapter provides a return port for separated oil and an integral seal, which prevents leakage. Installation & maintenance guidelines are included.

Description	Part No.	Price
Oil Separator for Lycoming (3/4" inlet/outlet)	08-00571	---
Oil Separator for Cont. (5/8" inlet/outlet)	08-00572	---
Adapter for Lycomings	08-00577	---
Adapter for Continentals	08-00578	---

ANDAIR OIL/AIR SEPARATOR

The OS8850 has been designed to remove the oil from the crankcase breather on Lycoming and Continental Engines. This gives reduced oil consumption, cleaner aircraft, and environment. • Upper outlet can rotate through 360° allowing easy installation. • The unit can be dismantled for inspection/cleaning. • Vortex swirl separation. O-Ring seals • Light weight: 6.4 oz. • 4 off 10-32 mounting lugs on the base of the separator for easy fire wall mounting.

P/N 08-01034 ..... ---

ANDAIR CONDENSATION TRAP

This new device is a small and very light weight condensation trap. It is used to extract the water from the oil when used in conjunction with the Andair Oil / Air Separator. Water can build up in the engine due to water in the air condensing during a cold night. Overnight this water sinks to the bottom of the sump settling at the lowest point. This is generally where the oil pump pick up is. Therefore there is a real potential that if one of these devices is not used water can build up in the engine. Flight test have shown that the worst possible condition for water in the oil is on humid days, cold nights and where short flights are undertaken.

P/N 08-01035 ..... ---

METAL CHECK ENGINE OIL ANALYSIS KIT

This oil analysis kit is used for determination of the condition of oil wetted engine parts, even on the first sample. This laboratory analysis consists of ICP (Inductively Coupled Plasma Spectroscopy) quantitation of 12 wear metal elements for piston and turbine engines. The analysis is completed in 24 hours - abnormal results are communicated immediately. Available in two versions: with return postage included and without return postage included to fit your needs! AV Lab is recommended or authorized by most engine manufacturers. The kit is excellent for pre-purchase inspection.

Not applicable for hydraulic fluid.

OIL ANALYSIS RESULTS - INCLUDING INTERPRETATION AND STATISTICAL ANALYSIS, ARE AVAILABLE ONLINE.

Return Postage Included.....P/N 08-00931 ..... ---
Return Postage Not Included .....P/N 08-10691 ..... ---

METAL CHECK AIRCRAFT ENGINE OIL FILTER ANALYSIS KIT

Includes oil and oil filter analysis. Oil filter debris analysis should be part of all preventative maintenance programs. Filter analysis is critical for turbine engines because they generate predominately larger wear particles that are trapped by small micron filtration. The oil filter is rinsed and the exact alloys presents in the debris are determined by SEM/EDXRF. The AMS number, amount, type, form, and condition of the particles are reported. **Features**: • Largest Oil Analysis Results Database • The Most Accurate Interpretive Results Guidelines • The Most Experienced staff. • Recommended, Approved, or Authorized by Engine Manufacturers. • 24 Hour a Day Service Available 7 Days a Week. Large Oil Analysis Kit. P/N 08-06270 ..... ---

CHAMPION OIL FILTER ANALYSIS KIT

Champion Oil Filter Analysis Kit can help you detect abnormal engine wear and even predict impending engine trouble, because it provides a comprehensive analysis of both the larger wear particles in the oil filter and the finer wear particles in the engines oil. P/N 08-01051 ..... ---

OIL DIPSTICKS

New manufacture oil tank dipsticks stamped with proper calibration markings. Dipstick Short Neck 9-1/2"

P/N 08-04612 ..... ---

VERNI-THERM VALVE - Lycoming thermostatic oil cooler bypass valve wt. 4 oz..... P/N 08-12154.....---

THIXO # 2 AVIATION GREASE - 425 GRAM TUBE

ThixO #2 Aviation Grease: A high performance water resistant grease using advanced thickening agents and superior lubricant chemistry. ThixO #2 Aviation Grease is a specialty lubricant designed for specific aviation applications primarily to prevent rust, corrosion, and seizing of critical components in drives, hub sets and splines. ThixO#2 Aviation Grease demonstrates outstanding sheer stability and exhibits a broad temperature range (-35C to >250C) dependent on application requirements.

P/N 08-13829 ..... ---

DOW CORNING 55 MOLYKOTE O-RING GREASE

Molykote 55 is a strong, silicone-based substance that will swell natural rubber and other materials to make a more powerful seal.

Typical Use: Used for dynamic lubrication and sealing between rubber and metal parts in pneumatic valves. Typical applications are found within the aircraft, automotive and other industries.

5.3 oz. Tube .....P/N 08-13684 ..... ---
8 Lb. Can.....P/N 08-13685 ..... ---

EP

OIL COOLERS

OIL COOLER APPLICATION CHART

Aircraft Model	Aero Classic Part No.	Positech Part No.	Stewart Warner Part No.
Beech 10, C23, A24R, C24R	8000075	4211	8406R
Cessna 150,152, A152, 170, 170, 172, 175, 177	8000075	4211	8406R
Experimental	8000081	4215	10599
Piper PA23-150, PA28-140, PA23-160 (SN 23-163 up), PA28-150, -151, PA28-160, -161, PA28-180, -181	8000075	4211	8406R
PA18, PA18A, PA22-135, -150, -160	8000328		
Pitts S2B	8000215	4219	10611
Stinson 108, 108-1, -2, -3	8000075	4211	8406R
Taylorcraft F22B, F22C, F22R	8000075	4211	8406R

MEGGITT TROY OIL COOLERS

MEGGITT TROY 8406R

MEGGITT TROY South Wind 8406R (formerly Harrison P/N 8526250). Applicable to all Lycoming installations from 4-cylinder 0-235 through 6-cylinder IO-540 engines. Inlet & outlet ports accept 3/8" pipe fittings. Fits Beech B-19 Sport (0-320-E2C), C-23 Sundowner (0-360-A4G), Muskateer (0-360-A2G), Cessna 172 Skyhawk (0-320-E2D), 177 Cardinal (I0-360-AF6D), 177 Cardinal (0-0-360-A1FG), 177 Cardinal RG (0-360-AFGD), Mooney Ranger (0-360-A2D). Size: 7.75"l x 3.5"d x 4.75"h. Wt.: 4 lbs.

Model 8406R ..... P/N 8406R ..... ---
Model 8432R--Fits BeechA24R Sierra (IO-360-A2B), Mooney Chaparral (IO-360-A1A), Mooney Mark 22 (TIO-541-A1A). Weight 4 lbs. size: 5-3/4"Hx8"Wx3-5/8"L ..... P/N 8432R ..... ---
Model 10611R - Fits Piper Single Engines..... P/N 10611R ..... ---
Model 10599R - Fits Cessna and Stoddard ..... P/N 10599R ..... ---
Model 10578R - Fits Gulfstream AA-1 ..... P/N 10578R ..... ---
Model 10610R - Fits Cessnas ..... P/N 10610R ..... ---
Model 10568R - Fits Gulfstream AA5B, GA-7.... P/N 10568R ..... ---
Note: The oil coolers manufactured by MEGGITT TROY formerly Stewart Warner will fit the aircraft listed but in most cases are not furnished with the FAA/PMA certification for those aircraft. The exceptions are P/N 8406R and P/N 8432R are furnished with FAA/PMA approval for certain Mooney aircraft. For all other applications, Form 337 field approvals are required for installation on certificated aircraft. Call for further information.

HOMEBUILDER'S ENGINE CRANK CASE OIL BREATHER

This is a 3-1/4" dia. can reservoir with a 3/4" or 5/8" od hose barb outlet, 1/8npt curtis drain valve on bottom of can, and a fire wall mounting bracket. Item also available with a 5/8 od hose barb outlet, please call or email for price & availability. It keeps oil in can and off belly of airplane then can be drained later with petcock. Helps to keep crank case condensation to a minimum. Recommended for experimental aircraft use only not STC'd for certified aircraft.

3/4" od hose barb outlet .....P/N 08-00765 ..... ---
5/8" od hose barb outlet .....P/N 08-07219 ..... ---

OIL COOLER AIR SHUTTER

This product will add full control of air entering the oil cooler, thus giving the pilot some degree of control over the oil temperature. This basic product was offered for several years by another manufacturer, who ceased production. At this point we tooled up, made a few improvements to the rigidity, air flow, materials, and ease of operation. No restriction, when fully open these will flow 35% more air than the oil cooler will pass. The weight is only 5.5 oz. (a small price to pay for full control). The dimensions are 3.5" X 5.5" (against cooler opening), 4.5" X 6.5" (mounting flange), 7.75" to top of control arm. The thickness is .187". This can put to rest, fears of flying with your oil temperatures too low for efficient engine operation in cold climates, and greatly cut warm-up time for take-offs in any climate.

P/N 05-21817 ..... ---

AERO CLASSICS REMOTE MOUNT OIL COOLERS

8000357
Bar & Plate

Aero Classics offers the General Aviation community the largest number of FAA-PMA. (Federal Aviation Administration - Parts Manufacturing Authority) approved oil coolers in the world. Remote-mount oil coolers mount to the airframe or engine baffle instead of directly to the engine. Hoses are used to connect the oil cooler to the engine. This type of oil cooler is used with most non-Continental engines including all Lycoming engines. All FAA-PMA approved with supporting FAA 8130-3 documentation unless otherwise noted. All models have 3/8 NPT inlets and outlets. All Aero-Classic coolers come with a full two year warranty. Note: Models 8000081, 8000706 & 8000942 are for experimental aircraft only. Not FAA-PMA Approved. ***May not work with all applications***

Model No.	Description	FAA/PMA Approved	Part No.	Price
8000075	7 Row Drawn Cup	YES	08-00640	---
8000074	9 Row Drawn Cup	YES	08-00641	---
8000081*	10 Row Drawn Cup	NO	08-00642	---
8000215	13 Row Drawn Cup	YES	08-00643	---
8000216	17 Row Drawn Cup	YES	08-00644	---
8000353	18 Row Drawn Cup	YES	08-00808	---
8000328	Bar & Plate	YES	08-00809	---
8000343	9 Row 2 Pass Drawn Cup	YES	08-00810	---
8000356	Bar & Plate	YES	08-00811	---
8000357	Bar & Plate	YES	08-00812	---
8000590	Bar & Plate with Valve	YES	08-07408	---
8000661	13 Row Drawn Cup	YES	08-07409	---
8000618	Bar & Plate with Valve	YES	08-07410	---
8000706	Bar & Plate	NO	08-07411	---
8000942	Bar & Plate	NO	08-07412	---
8000950	Bar & Plate with Valve	YES	08-07413	---
8000997	Bar & Plate with Valve	YES	08-07414	---
8001201	7 Row Bar & Plate	YES	08-07415	---
8001241	3 Hole 7" Oil Cooler	Yes	08-16189	---
8001467	Bar & Plate With Valve	Yes	08-16190	---
8001628	3 Hole 7" Oil Cooler	Yes	08-16191	---
8001819	2 Hole 8" Oil Cooler	Yes	08-16192	---
8002015	Remote Mount Oil Cooler	Yes	08-16193	---
8002038	Remote Mount Oil Cooler	Yes	08-16194	---
8002319	Remote Mount Oil Cooler	Yes	08-16195	---
8002320	Remote Mount Oil Cooler	Yes	08-16196	---
8002437	Remote Mount Oil Cooler	Yes	08-16197	---

AERO CLASSICS "HE SERIES" AVIATION OIL COOLERS

Aero's HE Series (High Efficiency) FAA-PMA oil coolers are designed to be direct replacements for Stewart Warner (today known as Meggitt) oil coolers – most of which do not have FAA-PMA. Aero-Classics HE Series oil coolers are intended to be a competitively priced option for those whose aircraft came with a Stewart Warner oil cooler. The HE Series come with full FAA-PMA documentation, an industry leading 2YR/2,000HR warranty, and heat rejection capabilities that match or exceed the competition.

Aero's HE Series oil coolers are approved for use on many Beech, Cessna, Grumman, Mooney, Robinson Helicopter, and other popular aircraft makes. Listed below is the SW part number and the corresponding Aero-Classics HE Series replacement part number.

SW Part No.	Aero Part No.	Description	Part No.	Price
10578R	8001535	4 Row 6" Long Core	08-07425	---
10877A	8001588	6 Row 7" Long Core	08-07426	---
10599R	8001599	8 Row 6" Long Core	08-07427	---
8406R	8001602	6 Row 6" Long Core	08-07428	---
10568R	8001640	5 Row 6" Long Core	08-07429	---
10614R	8001643	14 Row 6" Long Core	08-07430	---
10610R	8001646	10 Row 6" Long Core	08-07431	---
10611R	8001649	11 Row 6" Long Core	08-07432	---
10634R	8001652	12 Row 6" Long Core	08-07433	---
8432R	8001689	8 Row Dual Pass 6" Long Core	08-07434	---
8432S	8001694	8 Dual Pass 6" Long Core	08-07435	---
10865B	8001701	16 Row 7" Long Core	08-07436	---
10880A	8001713	16 Row Dual Pass 7" Long Core	08-07437	---
10891A	8001718	14 Row Dual Pass 6" Long Core	08-07438	---
10886A	8001723	16 Row 7" Long Core	08-07439	---
8406R	8001733	6 Row Bar & Plate 8" Long Core	08-07440	---

EP

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

OIL COOLERS

AERO CLASSIC CONTINENTAL OIL COOLERS

8000545 10" Non-Congealing Universal 7th Stud

Aero-Classic's engine mounted oil coolers for Continental powered aircraft offer high quality features such as a CNC machined base for reliable, leak-proof mounting. Aero's line of Continental front mounted oil coolers feature a hassle free design that accommodates both 7th stud and non-7th stud engine cases - eliminating the chance of getting the "wrong" oil cooler. The oil coolers on Continental engines often mount directly to the engine and do not require hoses. All FAA-PMA approved with supporting FAA 8130-3 documentation, and full two year warranty.

Model No.	TCM Part No.	Description	Spruce Part No.	Price
8000545	639171	10" Non-congealing Universal 7th Stud Front Mount	08-04961	---
8000319	639151	11" Non-congealing Universal 7th Stud Front Mount	08-04963	---
8000531	639152	11.5" Non-congealing Universal 7th Stud Front Mount	08-04965	---
8000683	626189	12 Bolt Congealing Non 7th Stud Front Mount	08-04967	---
8000687	652671	12 Bolt Congealing 7th Stud Front Mount	08-04968	---
8000925	627392	8 Bolt Front Mount	08-07418	---
8000440	654580	Rear Mount	08-07419	---
8000464	646685	Rear Mount	08-07420	---
8000934	646880	8 Bolt Rear Mount	08-07421	---
8000953	654585	Rear Mount	08-07422	---
8000960	654572	Rear Mount	08-07423	---
8001213	655090	Rear Mount	08-07424	---

Note: Some part numbers have been superseded
8000677 (our part # 08-04962) superseded by 8000545 (our part # 08-04961)
8000307 (our part # 08-04964) superseded by 8000319 (our part # 08-04963)
8000127 (our part # 08-04966) superseded by 8000531 (our part # 08-04965)

NDM OIL COOLERS

NDM is one of the world's largest volume manufacturers of FAA approved oil coolers. An approved supplier to both Lycoming and Continental, as well as many airframe manufacturers, NDM holds FAA/PMA's for most of these oil coolers. NDM oil coolers are manufactured utilizing the vacuum oven brazing process rather than the less costly Controlled Atmosphere Brazing (CAB) method used by others to save costs. Utilizing the vacuum oven process guarantees a high quality product and lower warranty returns. If you are not sure which NDM oil cooler is FAA Approved for your aircraft, please provide the aircraft model & serial number and we will determine the correct oil cooler for your application.

Part No.	NDM Part No.	Stewart Warner Part No.	Price
08-00740	20002A	8406R	---
08-00741	20003A	N/A	---
08-00742	20004A	10599R	---
08-00743	20005A	N/A	---
08-00744	20006A	10611R	---
08-00746	20008A	10614R	---

OIL THERMOSTAT SYSTEM

Designed to regulate the oil temperature on engines like the Rotax and Jabiru. If you are flying time and time again and the engine temperature is only getting to say 85°C the water will remain in your oil as a contaminant and can go on to destroy your engine with corrosion problems. Additionally, warmup is achieved very quickly on even the coldest of days because the thermostat diverts the oil flow from the oil cooler. Made in the USA these special oil thermostat units are designed to quickly allow your engine to reach and maintain its optimum operating temperature even on the coldest of days. CNC machined from 6061-T6 the unit is anodised with the type 2 surface finish to protect the thermostat long-term against corrosion. There are a number of benefits in using an oil thermostat in your aircraft which include fuel savings resulting from quick warmup times and engine operation at optimum oil temperature which also increases engine life because the engine is being operated at the correct oil temperature. Does not include Hardware.

P/N 08-07212 ..... ---

ROTAX 912 12.5MM OIL COOLER HOSE

912 Oil Cooler Hose 12.5mm high heat hose for 912-914 oil coolers. Sold by the foot .....P/N 15-06907 ..... ---

OIL COOLER DUCT SYSTEM

This economical duct system provides the aircraft builder with a simple way to route cooling air to Stewart Warner style oil coolers. Manufactured from .040 aluminum, this kit was designed for use on RV series aircraft but is ideal for virtually any homebuilt using a firewall mounted oil cooler. Kit includes baffle duct, oil cooler duct, hardware, & installation instructions .....P/N 08-05000 ..... **--- ea**

ALUMINUM COOLING LOUVERS

These aluminum cooling louvers are custom made and designed to improve the cooling of your engine compartment on your experimental aircraft. They are simple to install, and will dramatically lower your CHT temps, as well as your oil temperature.
The standard size of the aluminum plate is 12" long and 5" wide, and the outside flange can be trimmed to fit your application. There are a total of 9 louver slots which aid in cooling.....P/N 08-07625 ..... ---

OIL DOOR HINGE

The hidden hinge has a uniquely shaped arm that allows the hinge to be mounted completely out of view to the underside of the cowling. The center hinge eye is removed for the custom made spring that loads the hinge to be full open when unlatched. If your oil door unlatched it will be full open, eliminating accidentally taking off with the oil door unlatched. The hinge is aircraft quality extruded MS20001-4 hinge with a 3/32" steel hinge pin. One end of the hinge pin is flattened. When installed and closed the hinge pin is gripped tightly by the force of the spring.
Oil Door Hinge .....P/N 12-04708 ..... ---
Replacement Spring ....P/N 12-04709 ..... ---

EP

X-SERIES OIL COOLERS BY AIRFLOW SYSTEM

The first aircraft oil cooler design in 50 years. Computer modeling and flight testing have been used to develop coolers that deliver significantly lower oil temps with no increase in oil cooler size or oil pressure drop. Designed as a direct replacement for popular oil coolers used in experimental aircraft, the X- SERIES oil coolers are built to Airflow Systems specifications and certified aircraft oil cooler standards. Flight testing on the popular RV series of aircraft has shown oil temperature drops of 10 -15 degrees F for coolers of the same size in the same location. Not FAA approved.

Model	Size	Engine Application	Notes	Part No.	Price
2002X	7 Rows	Continental O-200, Lycoming O-235, Lycoming O-320, Lycoming O-360, Lycoming IO-360, Corvair, Subaru, VW	Max 180 HP. No piston squirters or cold air induction	08-06153	---
2004X	10 Rows			08-13963	---
2006X	13 Rows	Lycoming O-360K, Lycoming IO-360, Lycoming IO-540	Go up one size for piston squirters, cold air induction, aerobatic and/ or float plane applications	08-06154	---
2007X	15 Rows			08-13964	---
2008X	17 Rows			08-06155	---

EP

AIRFLOW SYSTEMS ASOCD-45-13BV OIL COOLER DUCT BUTTERFLY VALVE

Airflow System 4 inch butterfly valve for modulating airflow to oil coolers installed on 45 degree duct. It's Welded in metal shaft bushings, not plastic. The CNC machined lever arm with pinch bolt allows for various positions on shaft. Has proper swiveling cable attachment with set screw. May be mounted in multiple orientations. It is anodized for corrosion resistance and appearance ....P/N 08-17116 ..... ---

AIRFLOW SYSTEMS ASOCD-45-13 OIL COOLER DUCT

Airflow System 45 degree metal duct for 13 row oil coolers. Has a 4" diameter hose connector. May be mounted in multiple orientations. Is also anodized for corrosion resistance and appearance.

P/N 08-17115 ..... ---

AIRFLOW SYSTEMS ASOCD-4-BV BUTTERFLY VALVE

Airflow System 4 inch butterfly valve for modulating airflow to oil coolers. Welded in metal shaft bushings, not plastic. CNC machined lever arm with pinch bolt allows for various arm positions on shaft. Proper swiveling cable attachment with set screw. Mounting ears allow easy attachment to rear baffles or air box (holes on 4.95 diameter centers). Anodized for corrosion resistance and appearance .....P/N 08-17117 ..... ---

AIRFLOW SYSTEMS OIL COOLER INSTALLATION KITS

Airflow Systems oil cooler brackets and mounting hardware kits offer the homebuilder a quick and easy solution for firewall mounted oil cooler installations. A variety of mounting angles cover most applications at a cost that is often little more than the cost of material for a builder made bracket. The generous radiuses resist cracking. Delivered without holes but including an oil cooler mounting hole template the brackets may be tailored to individual installations.

Description	Part No	Price
Asik-01 Oil Cooler Installation Kit Bolts & Spacers	08-13968	---
Asik-02 Oil Cooler Install Kit 45* Bracket	08-13969	---
Asik-03 Oil Cooler Install Kit 90* Bracket	08-13970	---

OIL SEPARATOR INSTALL KITS

Included are three feet of high quality silicone hose, four quality hose clamps, one steel braid -4 AN Teflon oil return hose, one -4 AN X 1/8" NPT 90 Deg. Fitting and one 1/8" X 3/8" NPT reducer bushing that fits the oil return in the accessory case on most Lycoming engines. Also included is a new accessory case breather fitting that is more IO-540 friendly when installing on the six cyl engines. Full installation and maintenance instructions will be included as well.

Description	Part No	Price
4 Cylinder Install Kit	05-12370	---
6 Cylinder Install Kit	05-12482	---

E-Z COOL FLAP

This revolutionary product, the "EZ Cool Flap" is a long awaited solution to this sometimes challenging task of climbing out without high CHTs. This revolutionary, retrofit electric cowl flap product will definitely help calm the fears of many RV owners and builders of these great aircraft. Our effort turned out to be far greater in monetary and time investment than we initially planned but, all good things take time. After a considerable investment in design, engineering and testing many different configurations, learning and improving along the way. We now offer our product as the most logical, simple and easily installed device to address these temperature concerns. This product is constructed of the finest aircraft alloys and workmanship available and is far superior to any and all other solutions available at any price. This product only weighs a few ounces, is extremely easy to use, and offers unparalleled protection for your aircraft engine.....P/N 05-12374 ..... ---

CRANKCASE VACUUM KIT

Included are the 321 stainless steel saddle mount fitting, mounting clamps, vacuum valve assembly and a complete safety by-pass with a .25 psi internal pop-off valve. This will put the finishing touch on your oil separator installation or breather system. Your engine will virtually stop all leaks and seeping when in service, due to the vacuum inside. This system stops any possibility of freezing up the breather tube in cold climates, as no moisture laden air is present in the engine and none can be inhaled through the overboard draft tube. The rarefied air and low pressure in the crankcase has a very dramatic effect on windage and oil in suspension, thus freeing up a little power and adding some efficiency. This will also greatly lower the boiling point of any moisture that finds its way into the engine. Any oil temperature over 160 degrees will get rid of all the moisture in turn the acids. Any lowering of pressure on the underside of the pistons is exactly the same as adding cylinder pressure on top. This results in a very noticeable power increase (on the average 180 HP engine, 3 to 5 HP). We hear this over and over with reports of higher static RPM, better climb and acceleration, lower fuel burn etc. The belly of your airplane will stay immaculately clean as anything that exits the separator or breather line will be consumed in the exhaust stream.....P/N 05-12429 ..... ---

MAGNETIC SUPER PLUG

This is the most powerful plug available and was designed specifically for GA aircraft use. This is about the least expensive thing you can add to your aircraft that will extend engine life and prevent damage to your engine. The plug end is very high quality with a special rolled thread to prevent leaks, is cad plated to prevent corrosion and drilled for safety wire. The rolled thread size is 1/2" npt and this fits all Lycoming, Continental, Franklin and many other aircraft engines. The extremely powerful high temperature, Alnico magnet is pressed and locked into the plug permanently and will outlast your engine. This powerful device extends into the oil and removes all ferrous material that is suspended in and circulating with your oil causing wear.....P/N 05-12373 ..... ---

THE A.S.A. OIL SEPARATORS

"THE ASA OIL SEPARATOR" Is a solution to the oil consumption and collection of oil on the belly of your aircraft. The breathers kick out oil mist that collects on the belly that in turn grabs all the dust and dirt. For years we have been making this type of product used in automotive racing engines so the leap to a light weight aircraft unit was a small one. After many hours on the dynamometer many changes and hours of flight testing the effort was well worth it. "ASA Oil Separator" that in our tests out performs most of the competition at a fraction of the price.

Description	Part No	Price
4 Cylinder Polished Mirror	05-12369	---
4 Cylinder White Powder	05-12472	---
6 Cylinder Polished Mirror	05-12473	---
6 Cylinder White Powder	05-12474	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

OIL ANALYSIS KITS - ENGINE TREATMENT

AVIATION OIL ANALYSIS (AOA) KIT

P/N 08-16223

A cost-effective service to enhance your aviation maintenance practices and provide confidence in the health of your engine. Aviation Oil Analysis (AOA) by ALS Tribology Division brings you a state-of-the-art oil analysis program designed specifically for aircraft owners. Oil analysis is an early warning system that reduces downtime, lowers maintenance costs, and helps you spot troubling issues before they become serious problems. AOA 'basic' kits can be ordered with or without return postage and include standard elemental analysis to detect evidence of engine component wear. A small vial, mailing bag, and information form are furnished with the order. Upon receipt at the laboratory in Phoenix, AZ, the oil sample is analyzed and a full report, including statistical analysis and interpretation, is forwarded within 24 hours and posted for viewing online. Note: insufficient postage will cause a delay in receipt of your sample, please consult your local post office or contact the laboratory (1-800-445-7930) regarding current postage rates.

Description	Part No.	Price
Basic Kit for Piston Engines (with return postage)	08-16223	---
Advanced Kit for all Engines (with return postage)	08-16225	---
Comprehensive Kit for all Engines (with return postage)	08-16226	---

LAB ONE AVIATION LOA-101 OIL ANALYSIS KIT WITH PREPAID POSTAGE

This kit includes a sample bottle, shipping container and the paperwork. Upon receipt, your sample will be processed within 24 hours with the results emailed or mailed from Lab One in Phoenix, AZ.
Can be used on any reciprocating or turbine engine and helicopter transmissions and tail rotors. P/N 08-17164 ..... ---

AVIATION LABS OIL FILTER ANALYSIS

Analysis of the oil filter only. The oil filter is rinsed and the debris removed is analyzed. The exact alloys present are determined by Scanning Electron Microscopy and EDXRF. The alloys are reported by AMS number. Amount, type, form and condition of particles are reported. Alloy spectra and metal maps for most aircraft engines. Filter analysis is a critical part of all preventative maintenance programs. Aviation Laboratories has been a leader in the development of filter analysis programs for aircraft engines since 1985. Analysis completed in 24 hours. pre-purchase inspection.....P/N 08-10692 ..... ---

OTHER OIL ANALYSIS KITS

Description	Part No.	Price
Aviation Labs APU Oil Analysis	08-10693	---
Aviation Labs CF34 Oil Filter Analysis	08-10694	---
PW-MOP-NO PW100 Oil Filter Analysis	08-10695	---
Aviation Labs FJ44-33 Oil Filter Analysis	08-10698	---
Aviation Labs Chip Flakes Analysis	08-10699	---
Aviation Labs AE3007 Oil Filter Analysis	08-10700	---
Aviation Labs GA001-OF-PTG Oil Filter Analysis	08-13834	---

AVLABS 100 HOUR INSPECTION KIT

AvLabs 100hr Inspection Kit for JT15D engine.
P/N 08-17183 ..... ---

LYCOMING OIL ADDITIVE

Approved oil additive LW-16702 that contains an anti-scuffing agent and can dramatically reduce engine wear. Applicable to all Avco Lycoming piston aircraft engines, and factory recommends use at every oil change or every 50 hours, whichever occurs first. For 6-8 qt. sump, use one 6 oz. can, for 12-15 qt. sump, use (2) 6 oz. cans, for 17-19 qt. sump, use (3) 6 oz. cans, for 23 qt. sump, use (4) 6 oz. cans.
P/N 08-05600 ..... ---

CAMGUARD OIL ADDITIVE

Designed to dramatically improve the performance of all mineral based , semi-synthetic and fully synthetic motor oils in the areas of corrosion protection, wear reduction, and seal protection. Designed to make regular engine oil what it needs to protect and lubricate any engine. A synergistic blend of advanced oil additives from all over the world, designed to reduce wear, curb deposit formation and more importantly protect engines against rust and corrosion. It contains multiple corrosion inhibitors for both ferrous and non-ferrous metals. A combination of ashless anti-wear compounds, anti-oxidants designed to reduce carbon deposits and special seal conditioners to prevent oil weeping. Camguard is FAA accepted and approved for use in piston engine aircraft oils meeting SAE-1899 standards.

1 pint.....P/N 08-07096 ..... ---
4 pints.....P/N 08-07097 ..... ---
Case of 12 pints.....P/N 08-07097-1 ..... ---
Gallon.....P/N 08-14636 ..... ---
Auto oil additive 8 oz.bottles.....P/N 08-12126 ..... ---
Auto oil additive Case of 4.....P/N 08-12126-1 ..... ---
Combo Pkg. - 4 Bottles Aviation & 1 Bottle Auto
P/N 08-07096-C ..... ---
Marine oil additive 8 oz.....P/N 08-01217-1 ..... ---
Marine oil additive Case of 4.....P/N 08-12127 ..... ---
Camguard Small Engine Supplement (pint) ....P/N 08-07402 ..... ---

AVBLEND

An oil supplement for all piston engine-powered aircraft owners and operators worldwide. Providing critical lubrication at start-up, AvBlend helps prevent accumulation of combustion chamber areas. Wear is reduced, engines stay cleaner and combustion chambers stay properly sealed. FAA approved. 4-cylinder engines require 1 can at each oil change, and 6 cylinder engines require 2 cans.
12oz. can.....P/N 08-05470 ..... ---
1Case (24 cans) .....P/N 08-05470-1 ..... ---

MOBIL AGL SYNTHETIC AVIATION GEAR LUBRICANT

Mobil AGL Synthetic Aviation Gear Lubricant offers measurably better wear protection for transmissions operating at high temperatures than Type I (MIL-L-7808) and Type II (MIL-L-23699) turbine oils, as well as wear resistance that is especially beneficial to military and other helicopters operating under unusual stresses. Mobil AGL is formulated with synthesized hydrocarbon-based fluids. The combination of a naturally high viscosity index and a unique proprietary additive system help enable the gear lubricant to provide outstanding performance in extreme service applications at high temperatures, well beyond the capabilities of mineral oils. Note: ExxonMobil recommends Mobil AGL for use in helicopter transmissions only. Before using Mobil AGL, operators should confirm the OEM's approved transmission lubricants. **Size:** 5 Gallon .....P/N 08-07406 ..... ---

MICROLON AIRCRAFT ENGINE TREATMENT

One-time metal treatment that virtually eliminates friction in all internal combustion engines which improves performance (horsepower), reduces wear, and extends engine life. Also decreases fuel consumption, reduces oil consumption, and lowers operating temperatures. Impregnates the engines bearing surfaces, forming a dry film lubricant that lasts no matter how many times the oil is changed. Continental A-65, C-85, and C-90 engines take the Half Kit. Most Lycoming and Continental engines used in light aircraft take the Single Kit. Turbocharged and Radial engines take from 2 to 6 Single Kits. Call for details if you have any questions on the quantity of Microlon needed for your application.
Microlon CL-100 Aircraft Kit (Single).....P/N 09-35805 ..... ---
Microlon CL-100 Aircraft Kit (Half) .....P/N 09-35810 ..... ---

SHELL WATER DETECTOR

Water can occur in jet fuel in three forms, dissolved (chemically in solution in the jet fuel), settled (as in free water at the bottom of the tank), or as finely dispersed undissolved water held in suspension. The Shell Water Detector is designed to detect undissolved water; it has been proven reliably for 30 years. This is water that a filter separator can remove, and is usually invisible to the eye in quantities below 40-60 ppm.
Tube of 10 Kits.....P/N 08-13897-1 ..... ---
Box of 80 Kits.....P/N 08-13897 ..... ---

EP

AEROSHELL AVIATION OILS

AEROSHELL AVIATION OIL 15W-50 MULTIGRADE

Aeroshell Oil W 15 W 50 is a premium semi-synthetic multigrade ashless dispersant oil specifically developed for aviation piston engines. AeroShell Oil W 15 W 50 is a special blend of a high quality mineral oil and synthetic hydrocarbons with an advanced additive package..

Single Quart.....P/N 08-05450 ..... ---
Case of 6 .....P/N 08-05451-6 ..... ---
55 Gallon Drum.....P/N 08-15636 ..... ---

AEROSHELL AVIATION OIL W100 SAE50

Aeroshell W100 is an ashless, SAE 50 dispersant oil that provides excellent service in all four cycle aircraft piston engines. AeroShell Oils W80, W100 and W120 are produced to meet fully the SAE specification J-1899 (Grades SAE 30, 40, 50 and 60 respectively). Furthermore, they all have military qualification approval and are listed on the Qualified Products List (QPL) issued by the US Navy.

Single Quart.....P/N 08-05400 ..... ---
Case of 6 .....P/N 08-05401-6 ..... ---
55 Gallon Drum.....P/N 08-15645 ..... ---

AEROSHELL AVIATION OIL W100 PLUS

Single Grade Ashless Dispersant Engine Oils: .AeroShell Oil W100 Plus and W 80 Plus are new single grade oils that combine proven AeroShell ashless dispersant technology with advanced antiwear additives. They are the oils for pilots who want a single grade that delivers extra protection and performance. AeroShell Oil W 100 Plus and W 80 Plus brings together the best qualities of two of the world's best-selling four cycle aviation oils.

Single Quart.....P/N 08-05485 ..... ---
Case of 6 .....P/N 08-05486-6 ..... ---
55 Gallon Drum.....P/N 08-15647 ..... ---

AEROSHELL AVIATION OIL 100 SAE 50 MINERAL OIL

AeroShell Oil 100 is a straight mineral oil blended from selected high viscosity index base oil. This oil does not contain any additives except for very small amounts of pour point depressant (which aids to improve fluidity at very low temperatures) and an anti-oxidant. AeroShell Oil 100 is approved for all aviation piston engines of civil aircraft when the use of an oil not containing a dispersant additive is required; however, it should also be used during the break-in of a new aviation piston engine or those recently overhauled.

Single Quart.....P/N 08-05410 ..... ---
Case of 6 .....P/N 08-05411-6 ..... ---
55 Gallon Drum.....P/N 08-15642 ..... ---

AEROSHELL AVIATION OIL W80 PLUS

Shell Oil W80 Plus introduces the anti-wear and anti-corrosion additives of AeroShell W100 Plus engine oil into a lighter, single-grade oil for use in colder climates. The anti-wear additive reduces wear on start-up by forming a microscopic layer on the engine's moving parts to prevent metal-to-metal contract when there is little oil present. Combined with a corrosion inhibitor, it is designed for pilots who fly either in cooler weather or less frequently.

Single Quart.....P/N 08-05920 ..... ---
Case of 6 .....P/N 08-05919-6 ..... ---
55 Gallon Drum.....P/N 08-15646 ..... ---

AEROSHELL AVIATION OIL 80 SAE 40 MINERAL OIL

AeroShell Oil 80 straight mineral oils blended from selected high viscosity index base oils. These oils do not contain any additives except for very small amounts of pour point depressant (which aids to improve fluidity at very low temperatures) and an anti-oxidant. AeroShell Oil 80 approved for all aviation piston engines of civil aircraft when the use of an oil not containing a dispersant additive is required; should also be used during the break-in of a new aviation piston engine.

Single Quart.....P/N 08-07507-1 ..... ---
Case of 6 .....P/N 08-07507-6 ..... ---
55 Gallon Drum.....P/N 08-15641 ..... ---

AEROSHELL AVIATION OIL W80

An ashless dispersant oil specifically developed for aviation piston engines. No general rule exists for every engine type when choosing the correct grade of oil; however, based on the average ambient outside temperature at engine start-up the most common grades are SAE 40, SAE 50 and SAE 60, which equates to AeroShell Oil W80, W100 and W120 respectively.

Single Quart.....P/N 08-00884 ..... ---
Case of 6 .....P/N 08-01223-6 ..... ---
55 Gallon Drum.....P/N 08-15644 ..... ---

AEROSHELL AVIATION OIL W120 SAE 60

AeroShell Oil W120 is an ashless dispersant oil specifically developed for aviation piston engines. It combines non-metallic additives with selected high viscosity index base oils to give exceptional stability, dispersancy and anti-foaming performance. No general rule exists for every engine type when choosing the correct grade of oil; however, based on the average ambient outside temperature at engine start-up the most common grades are SAE 40, SAE 50 and SAE 60, which equates to AeroShell Oil W80, W100 and W120 respectively.

Single Quart.....P/N 08-19069 ..... ---
Case of 6 Quarts .....P/N 08-19069-1 ..... ---
5 Litre Container(1.32 gallons) .....P/N 08-00344-1 ..... ---
Case of 3 .....P/N 08-00344 ..... ---
55 Gallon Drum .....P/N 08-00344-55 ..... ---

AEROSHELL TURBINE 500

A 5 centistoke synthetic hindered ester oil incorporating additives to improve thermal and oxidational stability and also metal passivation. AeroShell Turbine Oil 500 was developed essentially to meet the requirements of Pratt & Whitney 521 B Type II and MIL -L-23699 specifications and is entirely suitable for all civil and military engines requiring this class of lubricant. The outstanding high temperature and oxidation stability of AeroShell Turbine Oil 500 is due to the natural properties of the synthetic hindered ester base fluids used. These fluids are clean running in that they tend to dissolve varnish and sludge rather than leave deposits on working surfaces. Research and Development has enabled the most suitable selection of additive to be used in order to provide the excellent oxidation stability, superior load carrying and exceptional protection against high temperature corrosion of metals. AeroShell Turbine Oil 500 is also approved for use in the industrial and marine versions of certain aero-engines listed.

Single Quart.....P/N 08-00581 ..... ---
Case of 24 .....P/N 08-00582 ..... ---

AEROSHELL TURBINE OIL 555

An advanced 5 mm2/s synthetic hindered ester oil incorporating a finely balanced blend of additives to improve thermal and oxidation stability. Specifically developed to meet the high temperatures and load carrying requirements of SST engines and the DEF STAN 91-100 (formerly DERD 2497) and XAS-2354 specifications. AeroShell Turbine Oil 555 was also designed to give enhanced performance in current engines. More recently with the need to transmit more power and higher loads through helicopter transmission and gearbox systems (many helicopters use a synthetic turbine engine oil in the transmission/gearbox system) it has become apparent that the use of a very good load carrying oil, such as AeroShell Turbine Oil 555is necessary.

Single Quart.....P/N 08-00757 ..... ---
Case of 24 .....P/N 08-00758 ..... ---

AEROSHELL TURBINE OIL 560

A third generation 'low coking' 5 centistoke synthetic hindered ester lubricating oil. It incorporates advanced additive technology and a fine balance of additives to resist the high temperatures generated by turbine engines. Also improves the thermal and oxidational stability. The outstanding high temperature and oxidation stability of AeroShell Turbine Oil 560 is due to the natural properties of the synthetic hindered ester base fluid used. These fluids are clean running in that they tend to dissolve varnish and sludge rather than leave deposits on working surfaces. AeroShell Turbine Oil 560 was developed essentially to meet the high temperature requirements of both modern engines and future models.

Single Quart.....P/N 08-00759 ..... ---
Case of 24 .....P/N 08-00760 ..... ---
55 Gallon Drum .....P/N 08-15791 ..... ---

AEROSHELL TURBINE OIL 308

AeroShell Turbine Oil 308 is a 3 mm2 /s synthetic ester oil incorporating additives to improve resistance to oxidation and corrosion and to minimize wear. AeroShell Turbine Oil 308 was developed specifically for use in particular models of aircraft turbo-prop and turbo-jet engines for which a MIL-PRF-7808 (formerly MIL-L-7808) oil is required. AeroShell Turbine Oil 308 contains a synthetic ester oil and should not be used in contact with incompatible seal materials and it also affects some paints and plastics.

Quart.....P/N 08-14702 ..... ---
Case of 24 .....P/N 08-14702-1 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AEROSHELL TURBINE OIL 390

Helps to improve auxiliary power unit (APU) starting reliability, particularly coldsoak starting. Products such as ASTO 390 are commonly used in the APUs of four-engine intercontinental aircraft, but are now being considered for use in twin-engine aircraft.

Quart .....P/N 08-14703 ..... ---
Case of 24 .....P/N 08-14703-1 ..... ---

AEROSHELL COMPOUND 7

AeroShell Compound 07 is a de-icing fluid composed of ethylene glycol, isopropyl alcohol and distilled water. AeroShell Compound 07 is also recommended for removing hoar frost and light snow/ice from parked aircraft. AeroShell Compound 07 can be sprayed undiluted or mixed with up to 50% volume of water, depending upon the severity of the icing conditions, the efficiency of the spraying technique and whether it is applied hot or cold.

5 Gallon.....P/N 08-14712 ..... ---

AEROSHELL 2XN PRESERVATIVE FLUID

AeroShell Fluid 2XN is a corrosion preservative concentrate for protecting infrequently used engines. It uses an ashless anti-corrosion additive package and highly refined mineral base oils to protect internal engine surfaces from the Effects of humidity. It is also designed to neutralize the acidic by-products of oil oxidation and combustion. AeroShell Fluid 2XN can be used neat to long-term storage, but it is typically mixed with one part AeroShell Fluid 2XN to three parts fresh AeroShell Oil 100 to create an inhibited oil. It can also be sprayed undiluted on piston-engine exhaust ports, Rocker arms and accessories to provide additional protection.

5 Gallon.....P/N 08-14701 ..... ---

AEROSHELL DIESEL ULTRA

AeroShell Oil Diesel Ultra is a fully synthetic, multigrade engine oil designed for use in the new generation of compression ignition (Diesel) Aviation Piston Engines. The formulation has been selected to be suitable in piston engines fueled by Jet A or Jet A-1 and is designed for use in the latest highly rated turbocharged diesel engines under all operation conditions. AeroShell Oil Diesel Ultra MUST NOT be used in spark ignition, or Avgas powered aircraft engines.

5W-30 Liter.....P/N 08-10754 ..... ---
5W-30 Case of 12 .....P/N 08-10754-1 ..... ---

AEROSHELL OIL SPORT PLUS 4

AeroShell Oil Sport Plus 4 is ideal; as it is extremely resistant to the immense sheer forces that occur in areas of high-pressure contact such as high-speed gearboxes, valve trains, bearings, pistons and liners. This is where the blend of base oil and additives is most crucial. AeroShell Oil Sport Plus 4 is made up of a blend incorporating synthetic technology and high performance additives to provide long lasting protection. So when you change your oil to new AeroShell Oil Sport Plus 4, you are not only removing dirt from your engine, you are also replenishing the additives used to protect your engine during normal operation.

DO NOT use AeroShell Oil Sport Plus 4 in engines that are designed to use Ashless Dispersant aviation piston engine oils such as AeroShell W Oils. This includes air cooled Teledyne Continental Motors, Textron Lycoming and Jabiru engines.

4 Cycle Sport Plus 4 Oil (Case of 12).....P/N 08-07047 ..... ---

AEROSHELL TURBINE OIL 750

AeroShell Turbine Oil 750 is a 7½ mm2/s synthetic mixed ester oil containing a thickener and additives which provide excellent load carrying, thermal and oxidation stability.

Quart .....P/N 08-15765 ..... ---
Case of 24.....P/N 08-15765-1 ..... ---

MOBIL JET OIL II (AVIATION)

Mobil Jet Oil II helps keep oil systems clean. That can mean less maintenance more flying and greater revenue. Mobil Jet Oil II has a history of helping to keep aircraft where they belong - in the air generating revenue. Today, about 160 major airline use Mobil Jet Oil II in more than 11,000 gas turbine engines.

Quart .....P/N 08-00763 ..... ---
Mobil Jet II Case .....P/N 08-00764 ..... ---
55 Gallon Drum .....P/N 08-15960 ..... ---

MOBIL JET OIL 254

Mobil Jet Oil 254 is a third-generation synthetic lubricant made from a specially prepared hindered-ester base stock fortified with a special chemical additive package. The result is a product having superior thermal and oxidation stability that resists deterioration and deposit formation, while maintaining the physical characteristics required by builder and military specifications.

QT. .....P/N 08-07374-1 ..... ---
Case.....P/N 08-07374 ..... ---

EXXON MOBIL HYJET IV-A PLUS

Exxon HyJet IV-A plus is a fire-resistant phosphate ester hydraulic fluid designed for use in commercial aircraft. It is the best-performing Type IV fluid and approaches to a great extent many of the performance capabilities of Type V fluids, including high temperature stability, long fluid life, low density, and rust protection. It is superior to all other Type IV fluids in these respects. Exxon HyJet IV-A plus meets the specifications of all major aircraft manufacturers and SAE AS1241.

1 Quart .....P/N 08-15974-1 ..... ---
Case of 24 Quarts .....P/N 08-15974 ..... ---
1 Gallon .....P/N 08-15957-1 ..... ---
Case of 6 Gallons.....P/N 08-15957 ..... ---
55 Gallon Drum .....P/N 08-15974-55 ..... ---

EXXON MOBIL HYJET V

Mobil HyJet V is a Type V fire-resistant phosphate ester hydraulic fluid, which is superior in thermal and hydrolytic stability to commercially available Type IV hydraulic fluids. Better stability means the extent of fluid degradation in aircraft systems will be less than Type IV fluids, in-service fluid life will be longer, and consequently aircraft operator maintenance costs may be lower. HyJet V provides excellent high and low temperature flow properties (kinematic viscosities) and rust protection. HyJet V has also demonstrated an improvement over the erosion protection performance afforded by Type IV fluids.

Quart.....P/N 08-19053 ..... ---
Case of 24 Quarts .....P/N 08-19053-1 ..... ---

MOBIL JET OIL 387

Proactively developed to respond to the evolving needs of customers and the industry, Mobil Jet Oil 387 is the most advanced Mobil turbine oil ever developed. Specifically formulated to deliver unsurpassed engine performance, it strikes the perfect balance, providing optimal engine performance and advanced protection for engines and components. It will meet the performance requirements of both current and future, advanced gas turbine engines used in commercial and military service. Mobil Jet Oil 387 is approved for use in an array of engine models and components.

Quart.....P/N 08-16230-1 ..... ---
Case of 24 Qt. .....P/N 08-16230 ..... ---
55 Gal. Drum .....P/N 08-16231 ..... ---

TURBO OIL 2380

Turbo Oil 2380 is recommended for the lubrication of most aircraft gas turbines and accessories. It is also recommended for the lubrication of aero-derived gas turbines in industrial power generation, offshore and marine applications.

Single Quart.....P/N 08-00761 ..... ---
Case of 24 .....P/N 08-00762 ..... ---
5 Gallons.....P/N 08-13061 ..... ---
55 Gallon Drum.....P/N 08-13753 ..... ---

EASTMAN TURBINE OIL 2389

Turbo Oil 2389 is a 3 cSt synthetic lubricant. Turbo Oil 2389 is approved against US military specification MIL-PRF-7808L grade 3 and incorporates a level of technology from Type II (5 cSt) commercial turbine lubricants.

Single Quart ..... P/N 08-13757-1 ..... ---
Case of 12..... P/N 08-13757 ..... ---
55 Gallon Drum ..... P/N 08-13757-55 ..... ---

EASTMAN TURBINE OIL 25

Turbo Oil 25 is a 5 cSt high load carrying synthetic lubricant which was developed to meet the requirements of supersonic aircraft engines. Approved against US military specification DOD-L-85734(AS), and UK military specification DEF STAN 91-100/1 (DERD 2497). Designed to meet the severe requirements of helicopters.

Single Quart ..... P/N 08-13758-1..... ---
Case of 12..... P/N 08-13758..... ---
55 Gallon Drum .. P/N 08-13758-55..... ---

EASTMAN TURBINE OIL 2197

Eastman Turbo Oil 2197 is a latest generation 5 cSt High Thermal Stability (HTS) synthetic lubricant that is approved against US military specification MIL-PRF-23699 HTS. It is formulated to provide exceptional high temperature cleanliness in vapor mist and liquid film areas, as well as outstanding oxidative, thermal and hydrolytic stability. It provides exceptional performance in the most demanding existing turbines as well as new generation turbines just entering service.

Single Quart.....P/N 08-12341 ..... ---
Case of 12 .....P/N 08-12341-1 ..... ---
5 Gallon Pail .....P/N 08-13959 ..... ---

EASTMAN TURBINE OIL 157 55 GALLON DRUM

Eastman™ HALO 157 is a clear amber colored fluid with a faintly aromatic odor reminiscent of turbine engine oils. It is based on selected polyol esters, the inherent characteristics of which are enhanced by additives. also fully compatible and miscible with other oils approved to specifications, MIL-PRF-23699 and MIL-PRF-7808. Multiple testing has been completed in bearing and gearbox rigs and flight evaluations culminating in the NATO standard (AIR STANDARD ACS 4035) for a 9 cSt advanced Helicopter Gear Box Lubricant..... P/N 08-13960 ..... ---

ROYCO 363 LUBRICANT OIL

A general-purpose lubricant for instrument and wide range of airframe components for both military and civilian aircraft. It is suitable for use over a wide temperature range. • Specification: MIL - PRF - 7870 • NATO Specification: O-142 • Joint Service Designation: OM-12 • MIL-SPEC Scope: This specification covers one grade of general purpose, low temperature lubricating oil.

1 Gallon .....P/N 08-16236-1 ..... ---
5 Gallon Pail .....P/N 08-16234 ..... ---
55 Gallon Drum .....P/N 08-16235 ..... ---
Gallon Case.....P/N 08-16236 ..... ---

ROYCO 560 TURBINE OIL

A synthetic ester-based, broad application, 5 cSt turbine engine oil that is blended with corrosion inhibition in mind and for strong oxidative and thermal stability performance. These ester lubricants include hydraulic and aviation fluids, preservatives, turbine oils, drivetrain oils, performance greases and specialty products. They are engineered to meet or exceed the most rigorous application requirements including military specifications, Boeing approvals, and public transportation constraints.

Quart.....P/N 08-13989-1 ..... ---
Case of 24 Quarts. .....P/N 08-13989 ..... ---

ROYCO 586M LUBRICANT OIL

A blend of highly refined mineral oils and additives that achieve excellent load carrying capacity and corrosion/oxidation inhibition. A higher viscosity and load carrying capacity than Royco® 586L Lubricating Oil. Designed for application in gear boxes and specified helicopter transmissions. High temperature load carrying lube which meets MIL - PRF - 6086 specifications. 5 Gallon .....P/N 08-16222 .....

ROYCO 555 TURBINE ENGINE OIL

Royco 555 is an advanced 5 centistoke synthetic lubricating oil for gas turbine engines and helicopter transmissions. The product is a blend of "hindered" polyol esters and a finely balanced modern technology additive package.

Quart .....P/N 08-17641 ..... ---
Case (24 Quarts) .....P/N 08-17641-24 ..... ---
5 Gallon Pail.....P/N 08-17642 ..... ---

SKYDROL LD-4 HYDRAULIC FLUID

Skydrol LD-4 was also introduced in 1978, and is today the largest selling aviation phosphate ester fluid in the world. At the time of its introduction it was a breakthrough product, solving problems of valve erosion and thermal stability common in earlier fluids. Its excellent thermal stability under real world conditions has given it a reputation as the gold standard among Type IV fluids. In recent years it has received an additional qualification of 5000 psi approval under Boeing BMS 3-11 (Type V, Grade B and Grade C). Skydrol LD-4 features low density, excellent thermal stability, valve erosion prevention, and deposit control.

Single Quart.....P/N 08-12239 ..... ---
Case of 24 Quarts .....P/N 08-12239-1 ..... ---
Gallon .....P/N 08-12241 ..... ---
Case of 6 Gallons .....P/N 08-12241-1 ..... ---
5 Gallons .....P/N 08-12240 ..... ---
55 Gallons .....P/N 08-13994 ..... ---

SKYDROL 500-B4 HYDRAULIC FLUID

The Skydrol 500 series of fluids has the longest service history among phosphate ester products. The first version, Skydrol 500, was introduced in 1952. Steady improvements to the formulation led in 1978 to the current version, Skydrol 500B-4 which contains the same breakthrough anti erosion additive and acid scavenger found in Skydrol LD-4. Skydrol 500B-4 is the most worker friendly of the aviation phosphate esters; it is least irritating to skin and less prone to form mists which can be irritating to the respiratory tract. This has given the product enormous popularity for use in workshops and indoor test stands.

Single Quart.....P/N 08-12463 ..... ---
Case of 24 Quarts .....P/N 08-12463-1 ..... ---
Gallon .....P/N 08-12462 ..... ---
Case of 6 Gallons .....P/N 08-12462-1 ..... ---
55 Gallons .....P/N 08-13995 ..... ---

SKYDROL HYDRAULIC FLUID SKY-5

Introduced in 1996, Skydrol 5 was the first Type V fluid qualified under the Boeing BMS 3-11 specification. Skydrol 5 offers higher temperature capability than Type IV fluids, the lowest density, and better paint compatibility. Skydrol 5 does not have universal air frame manufacturer approval, so please consult Solutia's Skydrol Technical Service (800-260-4150) for specific approval and application information.

Single Quart.....P/N 08-12242 ..... ---
Case of 24 Quarts .....P/N 08-12242-1 ..... ---
1 Gallon .....P/N 08-13996 ..... ---
Case of 6 Gallons .....P/N 08-13996-1 ..... ---
5 Gallons .....P/N 08-13997 ..... ---

SKYDROL PE-5 HYDRAULIC FLUID

Skydrol PE-5 was developed to meet and exceed the more demanding Type V fluid requirements. It features the longest fluid life of any commercially available fluid, low density and low viscosity at low temperature; an unbeatable combination of the best features for optimum fluid performance. Thermal Stability according to Airbus test method, Fluid life test with 0.5% moisture level.

Single Quart.....P/N 08-14001 ..... ---
Case of 24 Quarts .....P/N 08-14001-1 ..... ---
Gallon .....P/N 08-14003 ..... ---
Case of 6 Gallons .....P/N 08-14003-1 ..... ---
5 Gallons .....P/N 08-14005 ..... ---
55 Gallons .....P/N 08-14006 ..... ---

SKYKLEEN® 1000 AVIATION SOLVENT

A generation aviation solvent that combines excellent cleaning performance with environmentally friendly characteristics. **Cleaning Applications**: • Skydrol® removal • Polysulfide sealant removal (cured/uncured) • RTV removal Degreasing • Carbon removal (brake and piston housings) • Engine cleaning • Final cleaning prior to painting and bonding • General surface cleaning • Carbon epoxy composite surface cleaning • Fiberglass resin removal • Adhesive/epoxy removal.

16 oz. .....P/N 08-13911 ..... ---
Case of 16 oz. .....P/N 08-13911-1 ..... ---
5 Gallons .....P/N 08-13909 ..... ---
54 Gallons .....P/N 08-13910 ..... ---

SKYKLEEN® 2000 AVIATION SOLVENT

Combines excellent cleaning performance with environmentally friendly characteristics.

Cleaning Applications: • Adhesive/Epoxy Removal • Carbon Epoxy Composite Surface Cleaning • Carbon Removal (Brake and Piston Housings) • Degreasing • Engine Cleaning • Fiberglass Resin Removal • Final Cleaning prior to Painting and Bonding • General Surface Cleaning • Polysulfide Sealant Removal (Cured/Uncured) • RTV Removal • Skydrol Removal

Single Quart .....P/N 08-13912 ..... ---
Case of 8 Quarts .....P/N 08-13912-1 ..... ---

EP

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PHILLIPS OIL

PHILLIPS 66 X/C AVIATION OIL 20W50

X/C oils provide easy starting and quick lubrication under low temperature conditions. Provides film strength and low wear under high temperature conditions. Provides excellent protection against engine deposits, ring groove carbon, piston lacquer, crankcase sludge and oil oxidation. Contains ashless dispersant which keeps engine clean. With more than 10 years of outstanding field performance, X/C oil meets Avco-Lycoming & Teledyne Continental engine specifications.

Single Quart ..... P/N 08-05300 ..... ---
Case of 12 Quarts ..... P/N 08-05301 ..... ---
Gallon ..... P/N 08-13854-1 ..... ---
Case of 4 Gallons ..... P/N 08-13854 ..... ---
55 Gal. Drum ..... P/N 08-07506 ..... ---

PHILLIPS 25W-60 ENGINE OIL

X/C 25W-60 is the first and only multiviscosity aviation oil designed and approved for radial engines originally designed to run on 120 grade. Pilots and mechanics will notice immediate benefits with X/C 25W-60 over single grade oils. Benefits such as improved oil flow at startup, quicker warm-up time, cooler operating temperatures and a cleaner operating engine. X/C 25W-60 also has proven corrosion protection in extreme conditions. X/C 25W-60 can be used year-round, during break-in and on to TBO.

Quart ..... P/N 08-13856-1 ..... ---
Case of 12 Quarts ..... P/N 08-13856 ..... ---
Gallon ..... P/N 08-00885 ..... ---
Case of 4 Gallons ..... P/N 08-00886 ..... ---
2.5 Gallon ..... P/N 08-13023 ..... ---
2.5 Gallon Container (Case of 2) ..... P/N 08-13857 ..... ---
55 Gallon Drum ..... P/N 08-13855 ..... ---

PHILLIPS 66 VICTORY AVIATION OIL 20W-50

Phillips 66® Victory AW 20W-50 Oil is an ashless dispersant, multi-grade engine oil specially formulated for year-round use in aircraft piston engines. Victory AW 20W-50 Aviation Oil is recommended for use in opposed piston engines. It can replace Commercial Grade 65, 80 or 100 single-grade engine oils with no sacrifice in performance.

Quart ..... P/N 08-17114-1 ..... ---
Case of 12 Quarts ..... P/N 08-17114 ..... ---
55 Gallon Drum ..... P/N 08-17114-55 ..... ---

PHILLIPS 66® AVIATION OIL VICTORY 100AW

Phillips 66® Victory Aviation Oil 100AW is an ashless dispersant, single-grade engine oil pre-blended with the proper concentration of antiscuff/antiwear additive (LW-16702) as mandated by Lycoming Service Bulletins 446E and 471B and Service Instruction 1409C. It is recommended for use in opposed piston and radial piston aircraft engines where cam lifter wear is a concern.

Quart ..... P/N 08-13850-1 ..... ---
Case of 12 Quarts ..... P/N 08-13850 ..... ---
55 Gallon Drum ..... P/N 08-14860 ..... ---

PHILLIPS 20W-50 MINERAL OIL

Type M is generally recommended and used as a break-in oil for newly overhauled aircraft engines. Type M is generally used by engine overhaul and repair shops for the initial run-in of aircraft piston engines. Type M 20W-50 is designed for owners and pilots who want the performance of a multi-viscosity, mineral based piston engine aviation oil without dispersant additives.

Single Quart ..... P/N 08-07197 ..... ---
Case of 12 ..... P/N 08-07198 ..... ---
55 Gallon Drum ..... P/N 08-13846 ..... ---

PHILLIPS 66 TYPE A 100AD OIL

Phillips 66 Type A 100AD is a premium, single grade oil designed for opposed piston aircraft engines that call for SAE 50 or Commercial Grade 100 oils.

Single Quart ..... P/N 08-00882 ..... ---
Case of 12 ..... P/N 08-05321 ..... ---
55 Gallon Drum ..... P/N 08-13847 ..... ---

PHILLIPS 66® AVIATION ANTI-RUST OIL

Helps preserve aircraft piston engines during periods of inactivity. For planes that are infrequently flown, we recommend replacing up to 10% of the crankcase volume with Aviation Anti-Rust Oil 20W-50 protects against corrosion.

Gallon ..... P/N 08-07401-1 ..... ---
Case (46 Gal) ..... P/N 08-07401 ..... ---

PHILLIPS 66 XC AERO OIL SAE

X/C Aviation Oil was the first FAA-approved mineral oil-based, ashless dispersant, multiviscosity aviation engine oil. Recommended for use in radial piston engines and in other aviation piston engines originally designed to run on heavier-grade oils, such as Commercial Grade 120.

P/N 08-13023 ..... ---

AEROSHELL GREASES

Shell Aviation offers a range of aviation greases designed to fill almost every lubrication need of the aviation community.
Aeroshell greases are now slightly darker in color than before due to new factory formulation.

Description	14 oz Tube Part No.	Price 14 oz Tube	6.6 lb Can Part No.	Price 6.6 lb Can
Aeroshell Grease # 5	08-05455	---	---	---
Aeroshell Grease # 6	08-05460	---	08-13568	---
Aeroshell Grease # 7	08-05475	---	08-12238	---
Aeroshell Grease # 14	08-05480	---	08-13151	---
Aeroshell Grease # 22	08-05490	---	08-12236	---
Aeroshell Grease # 33	08-00825	---	08-13462	---
Aeroshell Grease # 58	08-17410	---	---	---
Aeroshell Grease # 64	08-00824	---	08-13962	---

Description	Size	Part No.	Price
Aeroshell Grease # 22	5 Gallon	08-15792	---
Aeroshell Grease # 14	5 Gallon	08-15766	---
Aeroshell Grease # 33	5 Gallon	08-15769	---
Aeroshell Grease # 64	5 Gallon	08-15771	---
Aeroshell Grease # 5	5 Gallon	08-15772	---
Aeroshell Grease # 6	5 Gallon	08-15773	---
Aeroshell Grease # 7	5 Gallon	08-14586	---

QUAKER STATE 2 CYCLE AIR COOLED OIL

Two-cycle oil for air-cooled engines. Recommended by engine manufacturers for air- and water-cooled engines.

8 oz. Single Bottle ..... P/N 08-06261 ..... ---
Case of 8 oz. Bottles ..... P/N 08-06260 ..... ---

MOBIL GREASE 28

Mobilgrease 28 meets the quality level of U.S. Military under Specification MIL-PRF-81322, General-Purpose, Aircraft, and Specification DOD-G-24508A (Navy) for shipboard auxiliary machinery. It is a U.S. Military Symbol WTR and NATO Code Number G-395 grease. It meets the quality level of DOD-G-24508A, Amendment 4.

Grease 28 (13.4oz Tube) ..... P/N 08-06157 ..... ---
Case of 4 - 4.4 lb Cans ..... P/N 08-12407-4 ..... ---
Case of 40 Tubes ..... P/N 08-07400 ..... ---
5 Gallon ..... P/N 08-14587 ..... ---

EXXON MOBIL GREASE 33

Mobligrease33 is a true multipurpose aviation grease intended for use in highly loaded anti-friction bearings, gears, and actuators as well as instruments, high speed bearings (though not recommended for wheel bearings), and general airframe lubrication, over operating temperatures from 100° F to 250° F.

Cartridge ..... P/N 08-07407-1 ..... ---
Case ..... P/N 08-07407 ..... ---

GREASE SHC-100

Mobilith SHC™ Series greases are superior performance products designed for a wide variety of applications at extremes of temperature. They combine the unique features of synthetic base fluids with those of a high-quality lithium complex thickener. The wax-free nature of synthetic fluids and the low coefficient of traction (compared with mineral oils), provide excellent low-temperature pumpability and very low starting and running torque.

4.4 lb. Can ..... P/N 08-13740 ..... ---
Case of 4 Cans ..... P/N 08-13742 ..... ---
35 lb. Pail ..... P/N 08-17064 ..... ---

LEVER ACTION GREASE GUN

Multipurpose grease gun. Uses 14 ounce cartridges, bulk loaded, or loaded through a dispenser. Comes with 6" nozzle and 9" flex hose

P/N 08-07180 ..... ---

VALVOLINE VV825 HIGH PERFORMANCE GEAR OIL

Valvoline® High Performance Gear Oil is a thermally stable, extreme-pressure gear lubricant that withstands severe temperatures and shock loading while providing excellent anti-wear, anti-scuffing, rust and corrosion protection. Reduced chattering in limited-slip differentials. Gear teeth wear protection from pitting and scouring. All hypoid differentials (conventional and limited slip) and manual transmissions in passenger cars, light trucks, sport utility vehicles, vans and heavy-duty trucks where an API-GL5 or MT-1 fluid is specified. ..... P/N 15-05963 ..... ---

EP

NYCO TURBONYCOIL 600 TURBINE OIL

TURBONYCOIL 600 is a standard lubricating oil with a viscosity of 5 cSt at 100°C based on high thermal stable polyol esters, and fortified with carefully selected anti-oxidant, antiwear and anti-corrosion additives.

Applications: • Turbine oil for military and civil aircraft and helicopters • Accessories (APUs, starters, IDGs, THS, propellers) • Stationary industrial applications (aero-derivative gas turbines)

Quart ..... P/N 08-17328 ..... ---
Case of 24 ..... P/N 08-17332 ..... ---

NYCO GN 22

NYCO GREASE GN 22 is a NLGI 2, clay-thickened grease, based on a synthetic hydrocarbon oil with a viscosity of 7 cSt at 100°C. It is resistant to corrosion, oxidation and contains anti wear/extreme pressure additives. It can be used from -65°C to +177°C.

Applications: • Multipurpose airframes (doors, flaps, slats, THS, bearings, etc.) • Landing gears • Wheels ....P/N 08-17292 ..... ---

NYCO GREASE GN 148

NYCO GREASE GN 148 is a NLGI 2 Grade, multipurpose aircraft grease, based on a blend of synthetic diester oils and synthetic hydrocarbon base stock and thickened with a complex lithium soap. It is fortified with anticorrosion, antioxidant and strong extreme pressure and anti-wear additives.

Applications: • Multipurpose airframes (doors, flaps, slats, THS, bearings, etc.) • Landing gears • Wheels.

P/N 08-17293 ..... ---

NYCO GREASE GN06

Applications:
• Low speed and sliding motion parts • Airframe multipurpose grease (doors, slaps, flaps, landing gear, etc.

400G Cartridge ..... P/N 08-17625 ..... ---

NYCO GREASE GN 25013

NYCO GREASE GN 25013 is compatible with most elastomers commonly used, including EPDM. Its very low torque makes NYCO GREASE GN 25013 the best choice for parts actuated by low-power motors.

1 Kg Can ..... P/N 08-17644 ..... ---
Case Of 6 1 Kg Cans ..... P/N 08-17643 ..... ---

NYCO GREASE GN 15

Applications: • Airframe multipurpose grease (doors, flaps, slaps, landing gear, etc.) • Anti-friction bearings, plain bearings & gearboxes • Can be technically replaced by the synthetic grease Nyco Grease GN 148. 400G Cartridge ....P/N 08-17588 .....---

NYCO LUBE 3525

Mineral lubricating oil for helicopter gear and transmission boxes – Extreme Pressure

Quart ..... P/N 08-17623 ..... ---
20L Pail ..... P/N 08-17626 ..... ---
Case of 24 Quarts ..... P/N 08-17622 ..... ---

NYCO GN 3058 GREASE

NYCO GREASE GN 3058 The high-temperature range grease for longer wheel bearing life, is a white lithium complex thickened synthetic grease designed to operate in salty and humid environment in a very wide temperature range going from -54°C to +175°C.

Applications: • Wheels • Landing gears • Heavy loaded systems

400G Cartridge ..... P/N 08-17290 ..... ---
1 kg Can ..... P/N 08-17289 ..... ---
35lb Pail ..... P/N 08-17291 ..... ---

DISPOSABLE FOLDING OIL FUNNELS

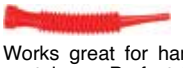
These disposable funnels are very popular among aircraft owners and pilots for adding engine oil. They store flat, clean and dry in a reclosable bag, and eliminate the messy cleaning when using a regular funnel. Also ideal for brake fluid, resins, and paints. Furnished in pack of 10 funnels.

Pack of 10 ..... P/N 08-00040 ..... ---

DRIP TRAP - OIL ABSORBENT

Drip Trap is a mat made of corn stalks which captures oil, coolant, and other aviation fluids that can drip from the aircraft. Drip Trap measures 20" x 20" and can absorb up to 6 quarts of oil. It won't blow away, can be driven on, won't tip over like a drip pan, and can be walked on without tracking the fluids on the hangar floor. Excellent for use with aircraft, cars, SUV's, trucks, motorcycles and in shops. When Drip Trap is fully saturated just dispose of it and replace. Drip Trap is the environmentally friendly and economical way to capture and contain drips and spills.

P/N 13-04950 ..... ---



SUPER FLEXI-SPOUT

Works great for hard to reach areas. Dual threading fits most sized containers. Perfect for adding motor oil, anti-freeze, transmission and windshield washer fluid ..... P/N 14-00707 ..... ---

OIL SAVER FUNNEL

The OIL-SAVER is simple in appearance, but a great deal of research has gone into its design. It consists of a basic rectangular funnel that's molded to hold six inverted oil bottles, the contents of which gradually drain out and into the depository of choice -- usually another oil bottle, leaving the plastic bottles clean enough for recycling. And with thousands of funnels already in use, they have proven to be versatile, practical tools that allow you to save money and recycle.

Color	Part No.	Price	Color	Part No.	Price
Red	08-07391	---	Green	08-07535	---
Orange	08-07533	---	Blue	08-07536	---
Yellow	08-07534	---	White	08-07537	---

NYCO 65 VASELINE

NYCO 65 Vaseline is a stiff, rather tacky petrolatum (heavy mineral paraffin wax), with a melting point in the range 45 to 60°C. It is not aggressive to any metal or alloy.

1 Kg Can Single ..... P/N 08-17661 ..... ---
1 Kg Case of 24 ..... P/N 08-17660 ..... ---
100g Tube Single ..... P/N 08-17663 ..... ---
100g Tube Case of 12 ..... P/N 08-17662 ..... ---

NYCO 83483 FLUID

NYCO 83483 is an homogenous mixture of pure petrolatum Vaseline and 50% of fine molybdenum disulphide powder. Molybdeum disulfide is a solid lubricant especially suitable for use at high temperature (up to 430°C) or under high load.

1 Kg Can Single ..... P/N 08-17667 ..... ---
1 Kg Case of 24 ..... P/N 08-17666 ..... ---

NYCO GREASE GN GA 47

NYCO Grease GN GA 47 is a homogenous mixture of pure petrolatum and 50 % of micronized graphite. It is a fairly good electrical conductor.

1 Kg Can Single ..... P/N 08-17665 ..... ---
1 Kg Case of 24 ..... P/N 08-17664 ..... ---

HYDRAUNYCOIL 42

Hydraunycoil FH 42 is a synthetic hydraulic fluid based on PAO and esters with a viscosity of 7 cSt at 40°C. It is designed to operate in the temperature range -54°C to +200°C without air intake for a long period of time without significant evaporation or change in viscosity.

1 Qt Can Single ..... P/N 08-17677 ..... ---
1 Qt Case of 24 ..... P/N 08-17676 ..... ---

NYCO HYDRAUNYCOIL FH 51

NYCO Hydraunycoil FH 51 Petroleum Hydraulic Fluid is a petroleum-based hydraulic fluid with a viscosity of 14 cSt at 40°C. It contains antioxidant, anti-corrosion and anti-wear additives. Hydraunycoil FH 51 has an extremely wide operating temperature range (from -54°C to +135°C in air-tight circuits and -54°C to 90°C in open circuits) with a viscosity index exceeding 300. It is micro-filtered and is supplied with a controlled level of contaminant.

1 Qt Can Single ..... P/N 08-17679 ..... ---
1 Qt Case of 24 ..... P/N 08-17678 ..... ---

NYCO HYDRAUNYCOIL FH 2

NYCO Hydraunycoil FH 2 is a synthetic hydraulic fluid based on a blend of PAO and diesters, with a viscosity of 15 cSt at 40°C and a viscosity index of 125.

1 Qt Can Single ..... P/N 08-17675 ..... ---
1 Qt Case of 24 ..... P/N 08-17674 ..... ---

NYCO 7870

NYCO 7870 is a mineral lubricating oil with a viscosity of 10 cSt at 40°C. It is inhibited against oxidation and corrosion.

20L Pail ..... P/N 08-17668 ..... ---

TURBONYCOIL 3516

NYCO Turbonycoil 3516 is a mineral turbine oil blended from mineral naphthenic base stocks and anti-oxidant additives, with a viscosity of 3 cSt at 100°C. It retains a low viscosity at very low temperature, down to -60°C.

1 Qt Can Single ..... P/N 08-17673 ..... ---
1 Qt Case of 24 ..... P/N 08-17672 ..... ---

NYCO 11B SYNTHETIC LUBRICATING OIL

Nycolube 11B is a synthetic lubricating oil with a viscosity of 13 cSt at 40°C, based on neopolyolesters. It is inhibited against oxidation and corrosion.

1L Can Single ..... P/N 08-17670 ..... ---
1L Case of 24 ..... P/N 08-17669 ..... ---

TURBINE OIL / HYDRAULIC FLUID CAN DUST CAP

Turbine oil / hydraulic fluid can dust cap.

P/N 08-13837 ..... ---

NO SPILL OIL SPOUT™ WITH ON-OFF VALVE

Patented On/Off valve. Adjustable flow. No-mess... No-spill. Rev. B 3-1.....P/N 14-00024 ..... ---

EP

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

OIL DRIP PAN

The drip pan is 54-1/2" x 32-1/2" x 2" and is manufactured out of an extremely durable and chemical resistant plastic (high density polyethylene). White in color, our drip pan is neat and clean in appearance and allows for easy visual inspection and monitoring of any engine leaks. The size and design of the drip pan will collect virtually any leaking fluids and eliminate the need for five quart pails and other messy collection containers. It is also a convenient place to pour fuel samples. Specifically designed for general aviation...P/N 08-06700 ..... ---

OIL DRIP PANS

These developed oil Drip Pans are designed to protect floors from those irritating drips of oil, fuel and hydraulic fluid. They are overlapping to prevent drips from getting between the pans. Their interlocking feature allows various pan sizes to be joined, protecting floors from all shapes and sizes of aircraft. Their lightweight and durable plastic design makes for easy set-up and clean-up. The interlocking feature allows various pan sizes to be joined, protecting floors from all shapes and sizes of aircraft, cars, buses, trucks and more! Includes: (1) DripPansUSA Oil Absorbent Pad, made of a minimum of 40% recycled polypropylene.

18" X 48" Interlocking .....P/N 08-07508 ..... ---
24" X 30" Interlocking .....P/N 08-07378 ..... ---

DRIP PAN OIL ABSORBANT PADS

DripPansUSA Oil Absorbent Pads Absorb: oil, coolants, transmission fluids, other hydroid fluids, and water. Can also be used under and around machinery, as shelf liners, and for other clean-up applications. Made of durable blown polypropylene and have many other uses around the home and shop. DripPansUSA Oil Absorbent Pads are made of a minimum of 40% recycled polypropylene. Made in the USA.

6 Pack.....P/N 08-07510 ..... ---
12 Pack.....P/N 08-07512 ..... ---

SPOUT DUST COVERS

Spout Covers for OPW 295 Series. D Spout Cover/Dust Cover.

Round			
Size	**Color**	**Part No.**	**Price**
1"	Red	08-13555	---
1"	Black	08-13556	---
1"	Blue	08-13557	---
1.5"	Red	08-13558	---
1.5"	Black	08-13559	---
1.5"	Blue	08-13560	---
Rectangular			
Size	**Color**	**Part No.**	**Price**
1.5"	Black	08-13553	---

CANKEY TURBINE OIL CAN OPENER

The CanKey turbine oil can opener is a simple and inexpensive tool that will open turbine oil cans without the risk of debris entering the can. Using other tools to open the oil cans can lead to metal shavings and other FOD being left in the can which can lead to damage to engine parts. Eliminate this issue by using the CanKey.....P/N 08-13836 ..... ---

FUNNELCAP OIL / FLUID DISPENSING CAPS

The FunnelCap makes it safe and easy to service aircraft oil and hydraulic systems without spilling of oil and without getting FOD in the oil, oil can or bottle.

Open half-used oil bottles and cans can be stored in the storage room or aircraft without risk of oil leaking out. The flex hose clip ensures a tight seal of the flex hose to the cap stud, and also secures the flex hose to the bottle or can to minimize storage space when not in use. The red cap seals the flex hose and ensures a tight seal of the flex hose end.

More flex hoses can be connected to increase the reach.

Bottle .....P/N 08-17713 ..... ---
Quart.....P/N 08-17714 ..... ---
Gallon .....P/N 08-17715 ..... ---

FORM-A-FUNNEL®

Aviation Funnel, go with the flow. When you need to get into a tight, hard to reach place or require extra length, the Aviation model (29" x 5") is the tool for the job. Thick, pliable nitrile rubber coating completely encases a thin, bendable layer of aluminum alloy that resists wear.Reshape and reuse it over and over. Edges can be molded around filters or drains to create a leak-proof seal. Keeps oil off of engines, frames and surrounding parts. Highly compatible with common automotive fluids. Works in temperatures from -30F° to 425F°. Cleans easily with cleaners and degreasers.

Aviation Funnel (29" x 5").....P/N 12-03148 ..... ---
General Purpose Funnel (14.5" x 6.5") .....P/N 12-03147 ..... ---
General Purpose Kit (14.5" x 6.5" & 9" x 4.75").P/N 12-04819 ..... ---

OIL INJECTION / WATER OVERFLOW RESERVOIRS

Constructed of high density polyethylene, these blow molded multi-purpose tanks offer excellent durability and resistance to most chemical and fluids. Express service tanks come with a cap and straight fittings. All tanks come with a 2-1/4" buttress thread cap and a straight fitting which fits a 1/4" hose. All sizes nominal. Height includes neck & fittings. Width includes mounting tabs. Max working temperature is 180-deg F and max working pressure is 5 PSI. 1 Quart 6.21" x 7.74" x 3.62" **Includes 1/4" barb spigot molded on bottom**.....P/N 15-06828 ..... ---
1.5 Quart 7.71" x 7.74" x 3.62".....P/N 15-06830 ..... ---
2 Quart 7.04" x 8.632" x 4.173".....P/N 15-06936 ..... ---
4 Quart 11.652" x 8.632" x 4.173".....P/N 15-04841 ..... ---

Accessories

Reservoir Tank Cap with Seal - 2-1/4".....P/N 15-05092 ..... ---
Nylon Vented Cap - 2-1/4" .....P/N 15-06936-1 ..... ---
Oil Water Reservoir Only .....P/N 15-06936-2 ..... ---

SHELL DEXCOOL® ANTIFREEZE / COOLANT

Single-phase, ethylene glycol based, extended life, universal automotive engine coolant. Suitable for a five year or 150,000 mile service life in automotive applications. It meets GM6277M-General Motor's Extended Life Coolant specification and will provide effective, long term corrosion protection for critical engine metals..... P/N 15-05767 ..... ---

ROTELLA OIL 15W-40

Shell ROTELLA® T SAE 15W- 40 is a leader in meeting leading OEM specifications, as well as the enhanced oil performance requirements for API CI - 4 PLUS, Caterpillar ECF-1, Mercedes-Benz 228.3, Cummins CES 20078, Detroit Diesel 93K214, Mack EO-N Premium Plus 03, Mercedes-Benz 228.3, and Volvo VDS-3, and meets the warranty requirement of all major diesel engine manufacturers.....P/N 08-07038 ..... ---

MOBIL 1 RACING 4T FULL SYNTHETIC MOTOR OIL

Mobil 1 Racing 4T oil meets all the requirements for Rotax 4 stroke aircraft engines. This is a full synthetic oil designed for motorcycles, however is an excellent choice for Rotax 4 stroke aircraft engines because of the gearbox and close internal tolerances. Mobil 1 Racing 4T has been fully tested, both on laboratory dynamometers and in the field, to help provide optimum horsepower and acceleration.

P/N 08-13892 ..... ---

SEAFOAM MOTOR TREATMENT SF-16

Sea Foam 16 oz. motor treatment for gas and diesel engines For use in gas, ethanol, diesel or biodiesel engines. Internal engine use only. Can be used in 2-cycle and 4-cycle engines. •100% pure petroleum product. Works instantly to clean deposits from internal engine parts and remove moisture from oil crankcases and fuel tanks. As a fuel system additive, and an oil system additive ..... P/N 09-04615 ..... ---

NEXT AIRCRAFT SERVICE DUE - STICKERS

Service reminder decal "NEXT AIRCRAFT SERVICE DUE" decal is black text on white semigloss background with "FILL IN" blanks. Removable decal is designed to adhere to any surface and not leave residue behind, perfect for aircraft rentals, owners, CFI's, trainers, service/repair stations, POH, log books, instrument panels, windows. Decal measures 3" x 3".....P/N 09-02137 ..... ---

EVANS HIGH PERFORMANCE WATERLESS COOLANT - GALLON

Evans High Performance (HP) Waterless Coolant is a revolutionary coolant providing dramatic improvements in heat transfer without requiring changes to cooling system components. Conversion to Evans HP waterless coolant from the use of conventional antifreeze is simple to accomplish, and offers performance advantages over water-based coolants. Evans HP Waterless Coolant is a long life coolant and is recommended for street use and racing where ethylene glycol use is permitted. 300 or more HP recommend use: aluminum radiator and 7 psi cap. Specified coolant for Rotax Aircraft Engines, Type 912 and 914 (series)..... P/N 08-04535 ..... ---

EVANS PREP FLUID

Evans Prep Fluid is a waterless cooling system flush engineered specifically to purge the cooling system of water-based antifreeze after draining and before installing new waterless coolant. Prep Fluid should be used when block drains are unavailable or cannot be removed. It is not a substitute for thoroughly draining the cooling system and related components. Prep Fluid is NOT intended to be a stand-alone operating coolant, but as a flush only. .....P/N 08-04534 ..... ---

EP

PIG® OIL – FIREWALL SHIELDS

PIG® LIGHT WEIGHT OIL ONLY ABSORBENTS

Hangs anywhere, goes anywhere! Grab one Pad or the whole tablet to clean up an oil-based spill or splatter in any corner of the shop. Durable PIG® Oil-Only Mat quickly soaks up gas and oil but won't waste absorbency on water like rags or floor sweep! Self-extinguishing material helps eliminate fire hazards; melts instead of burning if contacted by direct flame.

100 each 15"x20" Pads ..... P/N 08-07317 ..... ---
15"x50 ft. Roll ..... P/N 08-07320 ..... ---

PIG® MEDIUM WEIGHT OIL ONLY ABSORBENTS

Clean up oil-based spills without wasting absorbency on water. Unlike rags or floor sweep, PIG® Water-Repellent Oil-Absorbent Mat quickly soaks up gas and oil but repels water from rain, slush, washdowns, ponds and sumps and more!.

100 each 15"x20" Pads .... P/N 08-07318 ..... ---
30"x150 ft. Roll ..... P/N 08-07321 ..... ---

PIG® UNIVERSAL LIGHTWEIGHT ABSORBENTS

This Tablet goes anywhere to clean up drips, spills or splatters throughout the shop. Easier to use than floor sweep, so it reduces cleanup time. And with no damaging dust and grit to track around, the shop stays cleaner! Convenient pop-up tabs let you hang the Tablet anywhere you need it.

15 each 14"x14.25" Pads ..... P/N 08-07314 ..... ---
100 each 15"x20" Pads ..... P/N 08-07312 ..... ---
15"x50 ft. Roll ..... P/N 08-07315 ..... ---

PIG® MEDIUM WEIGHT UNIVERSAL ABSORBENTS

Genuine PIG® Mat is the better way to soak up drips, spills and splatters, and spend more time repairing vehicles. Easier to use than floor sweep so it reduces cleanup time. And with no damaging dust and grit to track around, the shop stays cleaner! • Safely absorbs and retains oil, coolants, water, grease, gasoline, solvents, auto fluids, paint overspray, battery acid and most other liquids

*3 each 15"x20"Pads ..... P/N 08-07353 ..... ---
100 each 15"x20" Pads ..... P/N 08-07313 ..... ---
30"x150 ft. Roll ..... P/N 08-07316 ..... ---

PIG® UNIVERSAL ABSORBENT SOCKS

Wrap flexible, self-contained PIG® Socks around tanks, drum areas and puddles to halt the spread of liquid while the Socks' thirsty absorbent filler absorbs it. Easier to use and clean up than messy floor sweep! • Moldable Socks surround equipment, drums or tanks and contain spills to keep them from spreading into walkways; also great for catching liquid that seeps under overhead doors Safely absorbs and retains oil, coolants, water, grease, gasoline, solvents, auto fluids, paint overspray, battery acid and most other liquids.

*2 Universal Socks ..... P/N 08-07324 ..... ---
12 Universal Socks ..... P/N 08-07327 ..... ---
12 Water Repelling Socks (oil only) ..... P/N 08-07325 ..... ---

*** Designates item pictured.**

PIG® UNIVERSAL SPILL KIT

Respond to spills fast so you can get back to work. Our hi-viz Kit has the supplies you need for quick cleanups, and it's so affordable you can stock every spill-prone spot in your shop or stash one in each fleet vehicle for better liability protection! • Moldable Socks • Mat Pads • Bright nylon Bag stands out, so you can find it when you need it. Universal Spill Kit. **Specifications**: • Includes: 2 PIG® Universal Socks • 20 PIG® Universal Med. Weight Absorbent Mat Pads • 2 Disposal Bags & Ties. P/N 08-07326 ..... ---

PIG® TRAFFIC MAT® RUG

Help keep extreme-traffic walkways dry and safe with this highly durable, absorbent Rug. Heat-fused TRAFFIC MAT® Rug won't rip or fray, even under wheeled traffic, so it's perfect for ensuring heavy-use, splash-prone areas stay clean and injury free. • Incredible durability; won't ball or fray, even under wheeled traffic • Roll out to add traction and absorbency near parts washers, paint areas, work benches, doorways, service bays and other high-wear areas • Self-extinguishing material helps eliminate fire hazards; melts instead of burning if contacted by direct flame. **Specifications**: • Color: Black • Style: Heavy-Duty

*36"x150 Ft. Standard Mat ..... P/N 08-07322 ..... ---
36"x100 Ft. Polybacked Mat ..... P/N 08-07323 ..... ---

SKY COWBOY LIQUID CONTAINMENT BAG

This ultra-durable liquid containment bag is the perfect accessory for your backcountry adventure. 5.2 Gallons Capacity. Lays flat when empty. Stowable spout included!! P/N 11-20281 ..... ---

STAINLESS STEEL FIREWALL SHIELDS

Two piece shields for use over cables or wires with large end-fittings or existing installations. Single piece for use where the cable or wire may pass through the hole. Flat shields designed for use on wooden or composite firewalls using a fire resistant sealant to prevent leaks. Both types of shield available in flat or with dimple to accommodate rubber grommets up to outside diameter.

Actual hole size in 2 piece shields is slightly larger than indicated to prevent chafing cable. Ream pilot hole in single piece shields oversize for the size grommet used. Use grommets that fit tightly around the cable or wire to insure a good seal.

Shields may be installed with screws, bolts and plate nuts or rivnuts. Install cable and grommet in firewall. Locate the shield to insure that it is centered on the cable - then drill attach holes in firewall. Shields predrilled with 5/32" mounting holes. If more than one cable passes through grommet fire resistant sealant must be applied to grommet.

Caution: Any holes drilled in the firewall are potential source of carbon monoxide in the cockpit. Extreme caution must be exercised when installing firewall shields in your aircraft. They do not provide the necessary seal around cables or wires to prevent carbon monoxide, smoke or fire from entering the cockpit. The shields are designed only to protect the sealing material (grommets/gaskets) from excessive heat.

Two piece firewall shield, 5/32-Inch hole with 3/4-Inch dimple for grommet ..... P/N 08-13832 ..... ---

Two Piece 3/8" Hole 1" Dimple For Grommet. P/N 61-375 ..... ---

Two Piece 3/8" Hole 1-1/4" Dimple For Grommet. P/N 61-475 ..... ---

Two Piece 1/2" Hole 3/4" Dimple For Grommet. P/N 61-300 ..... ---

Two Piece 1/4" Hole 3/4" Dimple For Grommet. P/N 61-250 ..... ---

Two Piece 3/8" Hole 3/4" Dimple For Grommet. P/N 61-275 ..... ---

EP

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

LORD ENGINE MOUNTS

LORD ELASTOMERIC ENGINE MOUNTS

These compression type couplings consist of bonded rubber joints pressed into the sockets of metal hubs. These dynafocal engine suspensions provide proper flexible support to isolate engine vibrations and reduce noise transmission to airframe structure in all aircraft applications. Careful design assures maximum strength to hold the engine under ultimate load and emergency conditions. Suspensions also distribute loads in most desirable patterns, control engine motions, accommodate thermal expansion and manufacturers' tolerances. **Warranty**: All Parker Lord general aviation engine mounts come with a 5-year limited warranty, which is retroactive. Included in the prorated warranty are engine mounts for Cessna, Cirrus, Mooney, Piper and all other general aviation models serviced through official Parker Lord distributors. Experimental or acrobatic aircraft are not covered under this warranty. Normal wear and tear expected to occur with regular use and maintenance is also excluded. All warranty claims are pending evaluation by Parker Lord. Please contact customer service for assistance with any warranty claim.

Life of the Part since Purchased:	0-36 Months	37-42 Months	43-48 Months	49 - 54 Months	55 - 60 Months	61 Months and more
Amount Reimbursed:	100%	50%	40%	25%	10%	0%

PROMPT SHIPPING GUARANTEED! IF YOU REQUIRE UNLISTED LORD MOUNTS, PLEASE CALL US FOR YOUR BEST PRICE. WE BEAT ALL COMPETITOR'S PRICES! LET US KNOW OF ANY LOWER PRICE AND WE WILL BEAT IT!

Aircraft Model	Application/ Engine	No. per A/C	Part No.	Price Each
AVIAT				
A-1	Lyc. O-360-C1G/A1P	8	J-1552	---
S-1	Lyc. O-320	8	J-7401-2	---
S-1S, -2A	Lyc. O-360-B4A, A1P	8	J-7401-2	---
BEECHCRAFT				
19	Lyc. O-320-E2C	4	J-7402-16	---
B19, M19A	Lyc. O-320-E2D	4	J-7402-16	---
23	Lyc. O-360-A4G	4	J-7402-16	---
23	Cont. IO-346-A	4	J-10778-4	---
A23-24	Lyc. IO-360-A2B	4	J-10778-4	---
C-23	Lyc. O-360-A4K	4	J-7402-16	---
24,A24,A24R,B24R	Lyc. IO-360-A2B	2 ea*	J-10778-14	---
C-24R	Lyc IO-360-A1B6	2 ea*	J-10778-16	---
B33, C33	Cont. IO-470-K	4	J-7518-2	---
C33A	Cont. IO-520-B	4	J-10520-1	---
E33, F33	Cont. IO-470-K	4	J-7518-2	---
E33A/C, F33A/C	Cont. IO-520-BB	4	J-10520-1	---
G33	Cont. IO-470-N	4	J-10520-1	---
35, A35, B35	Cont. E185-8	8	J-2245-1	---
C35, D35, E35, F35	Cont. E185-11	4	J-3804-26	---
E35, F35, G35	Cont. E225-8	4	J-3804-26	---
H35	Cont. O-470-G	4	J-7518-2	---
J35, K35, M35	Cont. IO470-C	4	J-7518-2	---
N35, P35	Cont. IO-470-N or-C	4	J-7518-2	---
S35,T35,V35,V35A,B	Cont. IO-520-BB	4	J-10520-1	---
36, A-36	Cont. IO-520-BB	4	J-10520-1	---
A36TC	Cont. TSIO-520-UB	4	J-10520-1	---
V35A-TC	Cont. TSIO-520-D	4	J-10520-1	---
B50	Lyc. GO-435-C2/C2E	8	J-3804-10	---
C50	Lyc. GO-480-F1A6	8	J-3804-10	---
D50, D50B/C/E	Lyc. GO-480-G2F6	4	J-3804-10	---
E50, F50, G50, H50, G50, G50, J50	Lyc. GSO-480-B1B6 Lyc. IGSO-480-A1B6	4 4	J-6545-1	---
55, A55, B55	Cont. IO-470-L	8	J-7518-2	---
55, A55, B55, B55A	Cont. IO-470-L	8	J-9613-5	---
C55(1967), D55, D55A,E55,E55A	Cont. IO-520-CB	8	J-10778-16	---
56TC, A56TC	Lyc. TIO-541-EIB4	8	J-9613-9	---
58	Cont. IO-520-CB	8	J-10778-16	---
58 (1984-on)	Cont. IO-550-C	8	J-10778-16	---
58P	Cont. TSIO-520-L/-LB	8	J-12453-12	---
58P	Cont. TSIO-520-WB	8	J-12453-12	---
58TC	Cont. TSIO-520-L/-LB	8	J-12453-12	---
58TC	Cont. TSIO-520-WB	8	J-12453-12	---
60, B60	Lyc. TIO-541-EIC4	8	J-9613-9	---
65, A65, 70	Lyc. IGSO-480-AIE6	4	J-6545-1	---
76TC	Lyc. TO-360-CIA6D	2 ea*	J-9613-49	---
76	Lyc. O-360-AIG6D	2 ea*	J-9613-50	---
77	Lyc. O-235-L2C	4	J-7402-1	---
80, A80, B80, 88	Lyc. IGSO-540-AID	4	J-6545-1	---
C90, C90A	PWC PT6A-21	6	LM427SA7	---
E90, F90	PWC PT6A-28,-135,-135A	6	LM427SA7	---
H90	PWC PT6A-34B	6	LM427SA7	---
95, 95A, 95B	Lyc. IO-360-B1B	8	J-7402-1	---
D95A, E95	Lyc. IO-360-B1B	8	J-7402-1	---
A100	PWC PT6A-28	6	LM427SA7	---
200, 200C, 200CT	PWC PT6A-41	8	LM427SA7	---
A200/C/CT	PWC PT6A-41	8	LM427SA7	---
B200	PWC PT6A-42	8	LM427SA7	---
C90, E90, C99, 200/C /CT, A200/C/CT, B200/C/CT/T	Overhaul kit for Barry Controls P/N 5906-2SA5	8	LM427SA12	---

Aircraft Model	Application/ Engine	No. per A/C	Part No.	Price Each
BELLANCA				
17-31, 17-31A	Lyc. IO-540-K	4	J-9868-5	---
17-31A	Lyc. IO-540-KIE5	4	J-9868-5	---
17-31TC,17-31ATC	Lyc. IO540-G, K	4	J-9868-5	---
7ACA	Franklin 2A-120A, B	8	J-3608-1	---
7ECA	Cont. O-200-A	8	J-3608-1	---
7ECA	Lyc. O-235-C1	4	J-6230-1	---
7GCAA, 7GCBC	Lyc. O-320-A2B	4	J-6230-1	---
7GCAA, 7GCBC	Lyc. O-320-A2D	4	J-6230-1	---
7KCAB	Lyc. O-320-E2A	4	J-6230-1	---
7KCA	Franklin 2A-120A, B	8	J-3608-1	---
8GCBC-CS	Lyc. O-360-C1E	4	J-6230-1	---
8GCBC-FP	Lyc. O-360-C2E	4	J-6230-1	---
8GCBC	Lyc. O-360-C2E	4	J-6230-1	---
8KCAB	Lyc.IO-320-E1A	4	J-6230-1	---
8KCAB-CS	Lyc. AEIO-320-E1B	4	J-6230-1	---
8KCAB-FP	Lyc. AEIO-320-E2B	4	J-6230-1	---
8KCAB-180	Lyc. AEIO-360-H1A	4	J-6230-1	---
CESSNA				
120-140	Cont. C-85	8	J-3608-1	---
140A	Cont. C-90	8	J-3608-1	---
150, 150A-L	Cont. O-200-A	8	J-3608-1	---
152, 152 Aerobat	Lyc. O-235-L2C	4	J-7402-1	---
172 I-P	Lyc. O-320-E2D	4	J-9613-49	---
172P	Cowl Mount	--	J-7444-14	---
F172P	Cowl Mount	--	J-7444-14	---
F172P	Cowl Mount	--	J-7444-24	---
F172	Cowl Mount	--	J-7444-36	---
172	Lyc. O-320-D2J	4	J-9613-49	---
172N	Lyc. O-320-H2AD	4	J-9613-49	---
172	Cont. IO-360-K	4	J-9613-42	---
172RG	Lyc. O-360-A1F6	2 ea*	J-9613-49	---
			J-9613-72	---
172Q	Lyc. O-360-AL/N	2 ea*	J-9613-49	---
			J-9613-72	---
172P,Q	Cowl Mount	--	J-7444-24	---
172	Cowl Mount	--	J-7444-36	---
P172	Cont. GO-300-E	4	J-6545-1	---
R172E,K	Cont. IO-360-D	4	J-9613-42	---
175	Cont. GO-300-A	4	J-6545-1	---
175A, B	Cont. GO-300-C, D	4	J-6545-1	---
175C	Cont. GO-300-E	4	J-6545-1	---
177	Lyc. O-320-E2D	4	J-9613-49	---
177A	Lyc. O-360-A2F	4	J-9613-49	---
177B	Lyc. O-360-A1F6D	4	J-9613-49	---
177RG	Lyc. IO-360-A1B6	4	J-9613-59	---
180	Cont. O-470-A, J	2 ea*	J-3804-14	---
			J-3804-15	---
180	Cont. O-470-K	4	J-6545-1	---
180A-H	Cont. 0-470-K, R	4	J-6545-1	---
180H, J	Cont. O-470-R, U	4	J-6545-1	---
182, 182A-R	Cont. O-470-R, U	4	J-6545-1	---
182, 182A-N	Accessory Mount	--	J-14290-4	---
182H-N	Panel Mount	--	J-6984-64	---
T182	Lyc. O-540-L3C5D	4	J-9613-12	---
TR182	Lyc. O-540-L3C5D	4	J-9613-12	---
185, 185A-E	Cont. IO-470-F	4	J-6545-1	---
185	Cont. IO-520-D	4	J-6545-1	---
A185F	Cont. IO-520-D	4	J-6545-1	---
188	Cont. O-470-R	4	J-6545-1	---

NOTE: * indicates more than one Lord Part No. needed

LORD ENGINE MOUNTS

Aircraft Model	Application / Engine	No. per A/C	Part No.	Price Ea.
CESSNA cont.				
188	Cont. IO-520-D	4	J-6545-1	---
188	Cont. IO-520-D	2 ea*	J15198-1	---
188A, 188B	Cont. IO-520-D	2 ea*	J15198-2	---
T188	TSIO-520T		J-6545-6	---
205, 205A	Cont. O-360-B4A	4	J-6545-1	---
206, 206A	Cont. IO-520A	2 ea*		
206B	Cont. IO-520F	2 ea*	J12453-1	---
U206T	Cont. TSIO-520C	2 ea*	J12453-2	---
U206	Cont. IO-520F	2 ea*		
U206,A,E	Panel Mount	--	J-6984-64	---
U206G	Cont. IO-520-F	2 ea*		
TU206A-F	Cont. TSIO-520-C	2 ea*		
T206G	Cont. TSIO-520-M	2 ea*		
P206, P206A-E	Cont. IO-520-A	2 ea*		
P206T, P206T A-E	Cont. TSIO-520-C	2 ea*	J12453-1	---
207, 207A	Cont. IO-520-F	2 ea*	J12453-2	---
207A II	Cont. IO-520-F	2 ea*		
207T	Cont. TSIO-520-G	2 ea*		
T207A, T20A II	Cont. TSIO-520-M	2 ea*		
210, 210A-C	Cont. IO-470-E, S	4	J-6545-1	---
210 D-J	Cont. IO-520-A, J	2 ea.*	J-12453-1	---
210 K-R	Cont. IO-520-L	2 ea*	J-12453-2	---
210 K, L	Panel Mount	--	J-6984-64	---
T210M, N	Cont. TSIO-520-R	2/1/1*		
T210 F-L	Cont. TSIO-520-C, H	2 ea.*		
P210M, N	Cont. TSIO-520-AF, P	2/1/1*	J-12453-1	---
P210N, R		4/2	J-12453-2	---
T210R (1985-86)	Cont. TSIO-520-CE	4/2*	J-12453-6	---
P210 R (1985-86)	Cont. TSIO-520-CE	4/2*		
310B	Cont. O-470-M	8	J-6545-1	---
310C-H	Cont. IO-470-D	8	J-12390-1	---
310JQ	Cont. IO-470-U, V, VO	8	J-12390-1	---
310R	Cont. IO-520-M, MB	8	J-9613-58	---
T310 P, Q, R	Cont. TSIO-520-B, BB	8	J-9613-58	---
320 D-F	Cont. TSIO-520-B, BB	8	J-9613-58	---
337, 337A-H	Cont. IO-360-C, D, G	8	J-9613-31	---
T337B-G	Cont. TSIO-360-A, H	8	J-9613-31	---
P337H	Cont. TSIO-360-C, CB	8	J-9613-31	---
340	Cont. TSIO-520-K, KB	8	J-9613-58	---
340A	Cont. TSIO-520-NB	8	J-9613-58	---
401, 401A,B	Cont. TSIO-520-E, EB	8	J-9613-58	---
402, 402A,B	Cont. TSIO-520-E, EB	8	J-9613-58	---
402C	Cont. TSIO-520-VB	8	J-9613-58	---
404	Cont. GTSIO-520-M	8	J-9613-54	---
411, 411A	Cont. GTSIO-520-C	8	J-9613-54	---
414, 414A	Cont. TSIO-520-J, NB	8	J-9613-58	---
421, A, B	Cont. GTSIO-520-D, H	8	J-9613-54	---
421C	Cont. GTSIO-520-L, N	8	J-9613-54	---
COMMANDER AIRCRAFT CO.				
112, 112B	Lyc. O-360-C1D6	2 ea.*	J-9613-40	---
112T, TCA	Lyc. IO-360-C1A6D	2 ea.*	J-9613-53	---
114	Lyc. IO-540-T4A5D	4	J-3804-28	---
GRUMMAN AMERICAN				
AA-1	Lyc. O-235-C2C	8	J-6113-5	---
AA-1A, B	Lyc. O-235-C2C	8	J-6113-5	---
AA-1C (Tomcat)	Lyc. O-235-L2C	4	J-7402-24	---
AA-1C (Lynx)	Lyc. O-235-L2C	4	J-7402-24	---
AA-5	Lyc. O-320-32G	4	J-7402-24	---
AA-5A	Lyc. O-320-32G	4	J-7402-24	---
AA-5B (S/N 1-399)	Lyc. O-360-A4K	4	J-9613-49	---
AA-5B, AG-5B	Lyc. O-360-A4K	4	J-9613-59	---
MOONEY AIRCRAFT				
M20	Lyc. O-320	4	J-6230-1	---
M20A (1958-1960)	Lyc. O-360	4	J-7402-16	---
M20B (S/N1701-1939)	Lyc. O-360-A1D	4	J-7402-1	---
M20C(S/N1940-20-1258)	Lyc. O-360-A1D	4	J-7402-1	---
M20D (S/N101-260)	Lyc. O-360-A2D	4	J-7402-1	---
M20E (S/N101-470)	Lyc. O-360-A1A	4	J-7402-16	---
M20E (1969-75)	Lyc. O-360-A1A	4	J-9613-12	---
M20F (1966-77)	Lyc. O-360-A1A	4	J-9613-12	---
M20G (1968-70)	Lyc. O-360-A1D	4	J-7402-1	---
M22 (1966-70)	Lyc. TIO-541-A1A	4	J-10520-1	---
M20J (1976-up)	Lyc. IO-360-A3B6D	4	J-9613-40	---
M20K (1979-85)	Cont. TSIO-360-GB1	4	J-9613-58	---
M20K (1979-85)	Cont. TSIO-360-GB3	1/3*	J-9613-75	---
M20K (1979-85)	Cont. TSIO-360-GB4	1/3*	and	
M20K (1979-85)	Cont. TSIO-360-LB1B	1/3*	J-9613-76	---
M20K (1986-up)	Cont. TSIO-360-MB1	1/3*		
NAVION AIRCRAFT				
G, H	Cont. IO-470-H or IO-520-B	4	J-7518-4	---

NOTE: * indicates more than one Lord Part No. needed

Aircraft Model	Application / Engine	No. per A/C	Part No.	Price Ea.
PIPER				
PA-23	Lyc. O-320-D2	8	J-6230-1	---
PA-23-160	Lyc. 0-320-B	8	J-6230-1	---
PA-23-235	Lyc. OI-540-B1A5	8	J-3804-20	---
PA-23-250	Lyc. O-540-A1B5, A1D5	8	J-3804-20	---
PA-23-250 (6)	Lyc. IO-540-C1B5, A1D5	8	J-3804-20	---
PA-23-250 (6)	Lyc. IO-540-C4B5	8	J-9613-12	---
PA-23-250 (6)	Lyc. IO-540-J4A5	8	J-9613-12	---
PA-23-250	Lyc. IO-540-C4B5	8	J-9613-12	---
PA-23-250T	Lyc. TIO-540-C1A	8	J-9613-12	---
PA-24-250	Lyc. O-540-C1B5, A1A	4	J-3804-20	---
PA-24-260	Lyc. IO-540-E4A5, D4A5	4	J-3804-20	---
PA-24-400	Lyc. IO-720-A1A, A1B	2 ea.	J-9613-9	---
PA-25-235	Lyc. O-540-B2C5,B2B5	4	J-3804-20	---
PA-25-260	Lyc. O-540-E4	4	J-3804-20	---
PA-28-140	Lyc. O-320-E2A	4	J-7402-16	---
PA-28-140	Lyc. O-320-E2A	2	J-9613-40	---
PA-28-140	Lyc. O-320-E3D	2 ea.*	J-9613-40	---
			J-9613-53	---
PA-28-150	Lyc. O-320-A2B	4	J-7402-16	---
PA-28-150	Lyc. O-320-A2B*	4	J-7402-24	---
PA-28-150	Lyc. O-320-E2A	4	J-7402-16	---
PA-28-151	Lyc. O-320-E3D	2 ea.*	J-9613-40	---
			J-9613-53	---
PA-28-160	Lyc. O-320-B2B	4	J-7402-16	---
PA-28-160	Lyc. O-320-D2A**	4	J-7402-16	---
PA-28-160	Lyc. O-320-D2A	4	J-7402-24	---
PA-28-161	Lyc. O-320-D3G	2 ea.*	J-9613-40	---
			J-9613-53	---
PA-28-180	Lyc. O-360-A3A	4	J-7402-24	---
PA-28-180	Lyc. O-360-A4A	4	J-7402-24	---
PA-28-180	Lyc. O-360-A4A, M***	4	J-9613-40	---
PA-28R-180	Lyc. O-360-B1E	4	J-9613-40	---
PA-28-181	Lyc. O-360-A4M	4	J-9613-40	---
PA-28R-200	Lyc. IO-360-C1C	4	J-9613-40	---
PA-28R-201	Lyc. IO-360-C1C, C1C6	4	J-9613-40	---
PA-28R-201T	Cont. TSIO-360-F, FB	4	J-9613-58	---
PA-28-235	Lyc. O-540-B2B5	4	J-3804-20	---
PA-28-235	Lyc. O-540-B1B5	4	J-7402-20	---
PA-28-235	Lyc. O-540-B4B5	4	J-7402-20	---
PA-28-235	Lyc. O-540-B4B5****	4	J-3804-27	---
PA-28-236	Lyc. O-540-J3A5D	4	J-9613-12	---
PA-30	Lyc. IO-320-B1A1C1A	8	J-9613-19	---
PA-31	Lyc. TIO-540-A1A, or A1B, A2C, A2B	8	J-9613-12	---
PA-31-310	Lyc. TIO-540-A2C	8	J-9613-12	---
PA-31-325	Lyc. L/ TIO-540-F2BD	8	J-9613-12	---
PA-31-350	Lyc. L/ TIO-540-J2BD	8	J-9613-29	---
PA-31P-350	Lyc. TIO-540-V2AD	--	J-9613-53	---
PA-32-260	Lyc. O-540-E4B5	4	J-7402-20	---
PA-32-260 (s/n 570-up)	Lyc. O-540-E4B5	4	J-3804-27	---
PA-32-300	Lyc. IO-540-K1A5	4	J-3804-27	---
PA-32-300	Lyc. IO-540-K1G5, K1A5	4	J-3804-40	---
PA-32R-300	Lyc. IO-540-K1G5D	4	J-3804-31	---
PA-32R-300 (s/n 141-up)	Lyc. IO-540-K1G5D	4	J-3804-40	---
PA-32RT-300	Lyc. IO-540-K1G5	2 ea.	J-3804-40	---
PA-32RT-300T	Lyc. TIO-540-51AD	2 ea.	J-3804-37&	---
			J-3804-39	---
PA-32-301	Lyc. IO-540-K1G5D	2 ea.	J-9613-19 &	---
PA-32R-301	Lyc. IO-540-K1G5D	2 ea.	J-9613-12	---
PA-32-301T	Lyc. TIO-540-S1AD	2 ea.	J-9613-19 &	---
PA-32R-301T	Lyc. TIO-540-S1AD	2 ea.	J-9613-55	---
PA-34-200	Lyc. L/ IO-360-C1E6	8	J-9613-40	---
PA-34-200, 200T	Cont. TSIO-360-E, EB	8	J-9613-58	---
PA-34-220T	Cont. L/ TSIO-360-KB	4	J-9613-58	---
PA-36-300	Lyc. IO-540-K1G5	4	J-3804-31	---
PA-38-112	Lyc. O-235L2C	4	J-7402-16	---
PA39	Lyc. IO-320-B1AC1A	8	J-9613-19	---
PA-44-180	Lyc. 0-360-E1A6D	8	J-9613-40	---
PA-44-180T	Lyc. T0-360-E1A6D	8	J-9613-40	---
PA-46-310P	Cont. TSIO-520-BE	4	J-9613-55	---
PA-46-350P	Lyc. TIO-540-AE2A	8	J-9613-55	---
PA-60-360	Lyc. IO-360-E1A	8	J-9613-12	---
PA-60-600A	Lyc. IO-540-K1F5	8	J-9613-9	---
PA-60-600B	Lyc. IO-540S1A5	8	J-9613-9	---
PA-60-601P	Lyc. IO-540S1A5	8	J-9613-9	---

LOCKING TAB WASHER - Used to lock mounting bolts to Lord Mounts. This Continental P/N 501867 is similar to Cessna P/N 08-51559-1.
P/N 08-50186-7 ..... **--- ea.**

COWL MOUNTS

Cessna 172P and F172P Per supp 86 & 13.3... P/N J-7444-14.....---
Cessna 172P, F172P, and 172Q Per supp 86 & 13.3
P/N J-7444-24 .....---
Cessna 172 Per supp 13.3.....P/N J-7444-36 .....---

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BARRY ENGINE MOUNTS

Barry Controls has actively supported the general aviation market since 1981 and holds PMA approvals on a wide range of engine mounts. Barry mounts are warranted for 500 hours or 12 months and feature outstanding quality & value. Call for unlisted part numbers.

BEECHCRAFT

Aircraft		Part No.	Engine	Price
Common Name	Model			
Skipper	77	94150-40	All	---
Sport	B19, M19A	94150-01	All	---
Sundowner	C23	94150-01	All	---
Bonanza	S-35-V35, A, B, C33A, E33A, C, F33A, C, 36	7351231-3	All	---
Bonanza	A36	7351231-3	All	---
Sport (Musketeer)	19A	94150-01	All	---
Twin Bonanza	E50, G50, H50, F50, J50	94110-40	All	---
Turbo Baron	56TC, A56TC	94011-04	All	---
Baron	58P	94031-03	All	---
Baron	58TC	94031-03	All	---
Baron	A24, A24R, B24R, C24R, D55, D55A, E55, E55A, 58, 95-C55, 95-C55A	96068-01	All	---
Baron	99-55, 95-A55, 95-B55,95-B55A	96071-01	All	---
Bonanza	C35-G35	96115-01	All	---
Duke	60, A60, B60	94011-04	All	---
Queen Air	65, A65, 65/80, 65/88, 65-A80, 65-B80, 70	94110-40	All	---
Duchess	76	94011-02(2)	All	---
		94011-20(2)	All	---
Travel Air	95, B95, A, D95A, E95	94150-40	All	---

Note: (1) Denotes 1ea. per engine. (2) Denotes 2 ea. per engine. All others require 4 engine

GULFSTREAM

Aircraft		Part No.	Engine	Price
Common Name	Model			
	111	94011-02 (02)	All	---
		94011-20 (02)	All	---
	112, B, T, TC, TCA	94011-02 (02)	All	---
		94011-20 (02)	All	---
Twin Commanders	500	94110-01	All	---
	500A	94110-40	All	---
	560A, E, F	94110-40	All	---
	680, E, F, FL, FLP	94110-40	All	---
	685	94001-01	All	---
	720	94110-40	All	---
Cougar	GA-7	94011-20	All	---
Tiger	AA5B	94011-20	All	---

Note: (1) Denotes 1ea. per engine. (2) Denotes 2 ea. per engine. All others require 4 engine * **AIRCRAFT SERIAL NUMBERS**

VANS

Aircraft		Part No.	Engine	Price
Common Name	Model			
Vans	RV-3	94011-20	All	---
	RV-4	94011-20	All	---
	RV-6	94011-20	All	---

CIRRUS DESIGN

Aircraft		P/N	Engine	Price
Common Name	Model			
Cirrus	SR20 - PMA Approved	96355-01	All	---
Cirrus	SR22- PMA Approved	96301-01	All	---

CESSNA

Aircraft		Part No.	Engine	Price
Common Name	Model			
	152, 152A	94150-40	All	---
Skyhawk	172I, J, K, L, M, N, P	94011-20	All	---
Skyhawk / Cutlass	172RG, Q, R, S	J-9613-72HA	All	---
	P172D	94110-40	All	---
	R172E	94017-01	All	---
Skylark	175, A, B, C	94110-40	All	---
Cardinal	177, A, B	94011-20	All	---
	180, A thru H	94110-40	All	---
Skylane	182, A thru R	94110-40	All	---
	R182, TR182, T182	94011-02	All	---
Skylane	182S, T	J-9613-82HA	All	---
Skywagon	185, A thru F, A185F	94110-40	All	---
	188	94110-40	All	---
Stationair	206, U206, A thru G, P206,A thru E	94030-01	All	---
		94031-01	All	---
Stationair	206H, T206H	J-15195-4HA	All	---
	TP206, A thru E, TU206, A thru G	94030-01	All	---
		94031-01	All	---
	207, A, T207, T207A	94030-01	All	---
		94031-01	All	---
Yates Aircraft Conversion	A188B	94007-01	All	---
Centurion	210, A thru C 210, D thru H, J	94110-40	All	---
		94030-01 (2)	All	---
		94031-01 (2)	All	---
Centurion	210K thru N	94030-01 (2)	All	---
		94031-01 (1)	All	---
		94031-02 (1)	All	---
Turbo Centurion	T210F thru H	94030-01 (2)	All	---
		94031-01 (1)	All	---
		94031-02 (1)	All	---
Turbo Centurion	T210J thru N	94030-01 (2)	All	---
		94031-01 (1)	All	---
		94031-02 (1)	All	---
Pressurized Centurion	P210N, R	94030-01 (2)	All	---
		94021-01 (1)	All	---
		94021-02 (1)	All	---

CESSNA TWIN ENGINE

Aircraft		Part No.	Engine	Price
Common Name	Model			
	310B, C	94110-40	All	---
Skynight	320, A thru C	94016-03	All	---
	320D, E, F	94006-01	All	---
	ALT.	94017-01	All	---
Skymaster	336	94016-01	All	---
	337, A thru F	94017-01	All	---
	P337H	94017-01	All	---
	T337, B thru F	94017-01	All	---
	340, A	94006-01	All	---
	401, A, B	94006-01	All	---
Business Liner	402, A thru C	94006-01	All	---
Titan	404	94001-01	All	---
	411, A	94001-01	All	---
Chancellor	414, A	94006-01	All	---
Golden Eagle	421, A thru, C	94001-01	All	---

Note: (1) Denotes 1ea. per engine. (2) Denotes 2 ea. per engine. All others require 4 engine

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BARRY ENGINE MOUNTS

PIPER

Aircraft		Part No.	Engine	Price
Common Name	Model			
Cherokee 140	PA28-140	94150-01	*20002-24999	---
	PA28-140	94011-02 (2)	*25000-7125641	---
		94011-20 (2)	*25000-7125641	---
	PA28-140	94011-02 (2)	*7225001 & UP	---
		94011-20 (2)	*7225001 & UP	---
Cherokee 150	PA28-150	94150-01	All	---
Cherokee 160	PA28-160	94150-01	All	---
Warrior	PA28-151	94011-02 (2)	0-320-E3-D	---
		94011-20 (2)	All	---
Warrior	PA28-161	94011-02 (2)	All	---
		94011-20 (2)	All	---
Cherokee180	PA28-180	94150-01	*1761-4377	---
	PA28-180	94150-01	*4378-5149	---
Cherokee Six	PA32-300	94110-02	*32-7240056 & UP	---
Archer	PA28-180	94011-20	*5151 & UP	---
Archer II	PA28-181	94011-20	All	---
Arrow	PA28R-180	94011-20	*3000 & UP	---
	PA28R-200	94011-20	*35001-7135329 IO-360-C1C	---
Arrow II	PA28R-200	94011-20	*7235001 & UP	---
Turbo Arrow II	PA28R-201T	94006-01	TSIO-360-F, FB	---
Arrow III	PA28R-201	94011-20	*7737002 & UP	---
Turbo Arrow III	PA28R-201T	94006-01	All	---
Dakota	PA28-236	94011-02	*0-540-J3A5D	---
Comanche 250	PA25-250	94110-01	0-540-A1A	---
Comanche 260	PA24-260	94110-01	IO-540-E or D4A5	---
Comanche 400	PA24-400	94011-04	IO-720	---
Cherokee Lance	PA32R-300	94110-02	IO-540-K1G5D	---
Lance II	PA32RT-300	94110-02	IO-540-K1G5	---
Saratoga	PA32-301	94011-02 (2)	All	---
		94011-03 (2)	All	---
Saratoga S.P	PA32R-301	94011-02 (2)	All	---
		94011-03 (2)	All	---
Tomahawk	PA38-112	94150-01	0-235	---
Brave	PA36-300	94110-02	All	---
Pawnee 235	PA25-235	94110-01	All	---
Pawnee 260	PA25-260	94110-01	All	---

PIPER TWIN ENGINE

Aircraft		Part No.	Engine	Price
Common Name	Model			
Apache 235	PA23-235	94110-01	0-540-B1A5	---
Aztec	PA23-250	94110-01	0-540, IO-540	---
Aztec C, F	PA23-250	94011-02	IO-540-C4B5, CIB5	---
Twin Comanche	PA30	94011-03	All	---
	PA39	94011-03	All	---
Turbo Navajo	PA31	94011-02	All	---
Navajo C/R	PA31-325	94011-02	TIO-540-F2BD(L)	---
Navajo Chieftain	PA31-350	94011-02	TIO-540-J2BD(L)	---
Seneca	PA34-200	94011-20	All	---
Seneca II	PA34-200T	94006-01	All	---
Seneca III	PA34-220T	94006-01	All	---
Seminole	PA44-180	94011-20	All	---
Turbo Seminole	PA44-180T	94011-20	All	---
Aerostar	PA60-700P	94011-40	All	---
	PA60-600, 601	94011-01	All	---
	PA60-601P,602P	94011-01	All	---

Note: (1) Denotes 1ea. per engine. (2) Denotes 2 ea. per engine. All others require 4 engine * AIRCRAFT SERIAL NUMBERS

PILATUS PC-12

Compatible Aircraft: PC-12. PC-12/45. PC-12/47. PC-12/47E

Description	Model	Part No.	Price
New	93880-23	08-15950	---
Rebuilt	93880-23R	08-15950-1	---

MAULE

Aircraft		P/N	Engine	Price
Common Name	Model			
Rocket	M-4-210, C, S, T	94016-01	All	---
	M-5-210C	94016-01	All	---
	M-5-235, C	94016-02	O-540-J/ IO-540-J	---
	M-6-235	94016-02	O-540-J/ IO-540-J	---
Orion/Super Rocket	M-7-235/260, M-8-235	94016-02	O-540-J/ IO-540-J	---

MOONEY

Aircraft		Part No.	Engine	Price
Common Name	Model			
Chaparral	M20E 1964 Only	94150-01	0-360-A1A	---
Chaparral (Super 21)	M20E 1965 & Newer	94011-02	IO-360-A1A	---
Executive	M20F	94011-02	IO-360-A1A	---
201	M20J	94011-20		---
231	M20K	94006-01	TSIO-360	---
	CAP231	94016-44	ALL	---
	M20A	94150-40	0-360-A1A, D	---
	M20A	94150-01	0-360-A1A	---
Master	M20D	94150-40	0-360-A1D, A2D	---
Ranger	M20B	94150-40	0-360-A1A, D	---
Ranger Mark 21	M20C	94150-40	0-360-A1A,D	---
Statesmen	M20G	94150-40	IO-360-A1D	---

LANCAIR

Aircraft		Part No.	Engine	Price
Common Name	Model			
Lancair	235	94150-41	0-235	---
Lancair	320	94150-41	0-320	---
Lancair	360	94150-41	0-320, 0-360	---
Lancair	4	94001-01, (2)	TIO-550, TIO-520	---
		94011-20, (2)	TIO-550, TIO-520	---
Lancair	ES	94017-01	All	---
Columbia	300	94001-01	IO-550	---

Note: (1) Denotes 1ea. per engine. (2) Denotes 2 ea. per engine. All others require 4 engine

SIAI MARCHETTI

Aircraft Model	Part No.	Engine	Price
F260	94110-01	All	---
S208	94110-01	All	---

SOCATA

Aircraft		Part No.	Engine	Price
Common Name	Model			
Rallye	235C, E	94011-20	0-540-B4B5	---

PRATT & WHITNEY TURBO PROPS

Aircraft		Part No.	Engine	Price
Common Name	Model			
P&W Turbo Prop	5906-25A5	08-10679	PT-6	---

REBUILT ENGINE MOUNT FOR PT-6

This engine vibration isolator assembly(engine mount) is for a variety of PT6 turbo-prop powered aircraft. Rebuilt....P/N 08-10679 ..... ---

PLEASE VISIT OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE GA APPLICATIONS

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

DYNAFOCAL ENGINE MOUNT RINGS & KITS

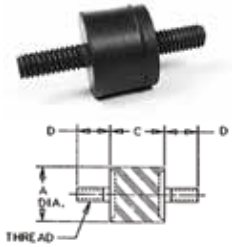
Standard rings furnished with 2-3/4" I.D. retainers, completely welded, ready for mount assembly. The Dynafocal ring kits contain all tubing cut and bent, with 2-3/4" I.D. retainers, ready to weld.

Dynafocal Ring for Lyc. 0-235 to I0-360 (200 HP)..P/N 33521 ..... ---
Dynafocal Ring for Lycoming 0-320B..... P/N 33521-B..... ---
Dynafocal Ring Kit for Lyc. 0-235 to I0-360 (200 HP)
(Pre-Welded) ..... P/N 33522..... ---
Retainer Cups & Rings Kit ..... P/N 33253..... ---
(includes 8 cups & 4 rings - everything in #33522 kit above except the tubing)

ENGINE MOUNTS FOR PIPERS

Description	Part No.	Price
J-3 Continental Engine Mount - Piper (J-3 (Continental 65 hp), L-4)	05-00873	---
PA-11 Engine Mount - Piper PA-11 with Continental C90 engine)	05-00874	---
C-90 Continental Engine Mount - Piper PA-18 (Continental C-90)	05-22398	---
PA-16 Engine Mount U11786-000 - Piper PA-16, PA-20 (Lycoming, 115-125hp, 1950-51)	05-21966	---
PA-15/17 Engine Mount L11824-000 - Piper PA-15, PA-17 with Lycoming engine	05-21967	---
PA-18 Lycoming Eng Mount 125hp - Piper PA-18 125hp Lycoming engine	05-22399	---

LORD RUBBER ENGINE MOUNT



LORD Flex-Bolt™ Sandwich Mounts are designed to protect equipment and machinery against damaging vibration. These mounts provide high load-carrying capacity and assure long life. Provide lowcost mounting systems which are compact, lightweight, easy to install and maintenance-free.

Model	A	C	D	Thread	Part No.	Price
J-4624-45	1.00	.75	.75	5/16-18	10-01557	---
J-4624-57	1.00	.75	.62	5/16-18	08-07196	---

URETHANE CONE STYLE ENGINE MOUNT BUSHINGS

These engine mount bushings are made of a special urethane formula which outlasts most other mounts. They have been in use on smaller 4 cylinder Lycoming engines from the 0-235 series to the GO-480 series for years, and are now available to the experimental aircraft market.
Specifications: These cone type mounts are applicable to the following engine models: O-235-C1, -C1B, -C2A, -C2C, -F, -F1B, -G2A, O-290-D, -D2, -D2B, -D2C, O-340-A, O-340-B, O-320-A2A, -A2B, -A2C, -A3A, -A3B, -A3C, -B2A, -B3A, -B3B, -B3C, -E1A, -E2A, IO-320-E2A, O-435-A, -A2 GO-480-B, -B1A6, -B1B, -B1C, -B1D, -C1B6, -D1A, -F6, -F1A6, -F2A6, -F4A6, -G1A6, -G1D6, -G2D6, -G2F6, -G1H6, -G1J6.
P/N 08-07392 ..... ---

BARRY MOUNT FOR VANS AEROBATIC AIRCRAFT

Barry Controls is a manufacturer of many aircraft engine mounts of both experimental and certified types. They also manufacture engine mounts for experimental and kit airplanes of various makes and models. Please call or visit our website for application information.
P/N 94016-08 ..... ---

HOMEBUILDERS CONICAL LYCOMING ENGINE MOUNT BUSHINGS

These new bushings offer superior damping qualities and do not harden over time as original mounts can do. They are molded from hi-tech silicone rubber which offering a much lower compression set which reduces engine sagging over time. Silicone also withstands a very wide temperature range and is compatible with grease and oil. These mounts are not PMA'd or FAA approved and are for use on experimental aircraft only. Not an approved replacement for Lycoming 71032 bushings. Sold in set of 8 bushings.
P/N 08-00662 ..... --- **/Set**

LORD ENGINE MOUNTS FOR ULTRALIGHTS

All altitude mounts for vibration isolation and shock prevention in all directions. Available in soft, medium, or hard rubber.
Soft ..... P/N 08-07049 ..... ---
Medium..... P/N 08-01013 ..... ---
Hard..... P/N 08-07050 ..... ---
Snubbing Washer.... P/N 9810145-01804 ..... ---

LORD MOUNTS FOR COZY ENGINE MOUNT

These Lord J-7402-24 mounts fit the engine mount for Lyc. 0-360 manufactured by CG Parts.
P/N 07-01115 ..... ---

SKYBOLT PLATEMOUNTS

The SK2003A Series Mounts were specifically designed around the latest generation Cessna/Lord J7444-42 Series Mount. The SK2003-14A, -24A, and -42A all have the same flex feature as the J7444-42. They look and install exactly the same as the Cessna/Lord part it replaces using the same fastener length. The SK2003-14A, -24A, and -42A are fixed depth, Non-Adjustable Platemounts. The 50ADJ is adjustable and can be adjusted without removing the cowling for an exact fit.

Model	Application	Part No.	Price
SK2003-14A	Cessna P/N J7444-14. Used On - 67-On C150 (10ea), 67-86 C172 (11ea), C172XP (13ea) 68-78 C177 (14ea)	08-07222	---
SK2003-24A	Cessna P/N J7444-24. Used On - 73-86 C182 (14ea)	08-07223	---
SK2003-42A	Cessna P/N J7444-36 and -42. Used on -97, C172 R & S (14ea)	08-07208	---

EP

STAINLESS STEEL FIREWALL PENETRATION KIT 3/4

The kit comes complete with stainless steel fabricated fitting, fire sleeve tubing, two ALL stainless steel hose clamps and a tube of fire block sealant to seal the ends from moisture and gasses. Includes installation instructions.

- Fireproof seal of the firewall for penetration of wires and cables.
- Seals out moisture and gasses.
- Easy replacement of wires and cables if necessary.
- Very clean looking installation.
- Available in three sizes.

There are so effective that they received an STC under Advisory Circular AC 20-135 Power plant Installation and Propulsion Systems Component Fire Protection Test Methods, Standards and Criteria.

Firewall Penetration Kit 3/4" .....P/N 09-00978 ..... ---
Firewall Penetration Kit 1/2" .....P/N 09-02601 ..... ---
Firewall Penetration Kit 1" .....P/N 09-00979 ..... ---

AEROTAR PRIMER LINE ASSEMBLIES

EP

Model No.	Aircraft	Description	Part No.	Price
0400106-83	Cessna 152	Primer Firewall to Strainer	05-21778	---
0400343-18	Cessna 152	Primer Firewall to Tee	05-21779	---
0400343-20	Cessna 152	Primer RH - Tee to #1 Cylinder	05-21780	---
0400343-24	Cessna 152	Primer RH - Tee to #1 Cylinder	05-21781	---
0400343-25	Cessna 152	Primer RH - Tee to #3 Cylinder	05-21782	---
0400343-23	Cessna 152	Primer RH - Tee to Tee	05-21783	---
0400343-19	Cessna 152	Primer LH - Tee to Tee	05-21784	---
0400343-21	Cessna 152	Primer LH - Tee to #4 Cylinder	05-21785	---
0400343-22	Cessna 152	Primer LH - Tee to #2 Cylinder	05-21786	---
1700121-112	Cessna 172	Cylinder #2 to Tee	05-21787	---
1700121-111	Cessna 172	Cylinder #4 to Tee	05-21788	---
2400010-31	Cessna 172	Tee to Tee	05-21789	---
2400010-11	Cessna 172	Cylinder #3 to Tee	05-21790	---
2400010-10	Cessna 172	Tee to Firewall	05-21791	---

EXHAUST SHIELDS

Over the years we have seen failure of the rivets that hold the exhaust heat shield to the mounting bracket. The solution was to spot weld the stainless steel mounting bracket to the stainless steel heat shield thus eliminating the possibility of rivet failure. Adding additional spot welds insures reliability. They are offered in two sizes, 2 inch and 4 inch to cover most applications.

Exhaust Shield 2" .....P/N 08-07351 ..... ---
Exhaust Shield 4" .....P/N 08-07352 ..... ---

T TUBE CONNECTOR

Expanded on short leg to slip over a 2" O.D. tube to divert air in two directions. Especially handy for close to the firewall applications. Weight is 1.7 ounces.

P/N 08-07304 ..... ---

2-1/2 INCH Y TUBE CONNECTOR

With 2" offshoot. If you are running 2.5" tubing in one area and 2" to another, this is your part. Weight is 1.8 ounces.

P/N 08-07303 ..... ---

2 INCH DIAMETER Y TUBE WITH SHUT-OFF VALVE

This is a DL-010 "Y" Tube, modified with a shut-off valve in the straight run tube. The shut-off valve enables the builder to divert the flow of air from the straight tube and direct all or part of the air flow to the angled tube. Furnished with one stainless steel hose clamp. Weight is 2.9 ounces.

P/N 08-07296 ..... ---

MODIFIED VA175 TUBE CONNECTOR

This is a direct replacement for the VA175 (Van's part number). The VA175 directs warm air in the RV-10 tunnel to both sides equally.

With the Modified VA175, air can be directed all to one side, partially to one side, or both sides, through the controllable (cable actuated) flapper on the inside of the unit.

P/N 08-07306 ..... ---

SHUT OFF VALVE TUBE CONNECTOR

Expanded on one end to 2" I.D. to slip over a 2" O.D. tube to regulate or shut off air. Also available non-expanded for in-line applications. Weight is 2 ounces

P/N 08-07305 ..... ---

GPL STAINLESS STEEL EXHAUST SPRING

Winding Length: 26mm • Overall Length: 60mm • Hook Distance: 66mm(2.60") • Wire Diameter: 2mm • O.D.: 13mm • Material: 304SS may be slightly magnetic • Number of Rolls: 12.5 • GPL Part Number: EXH-2S • Replaces Rotax Part Number 938-795

P/N 08-07632 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

HEATER BYPASS VALVES

Three models of the all stainless steel heater bypass boxes are offered. The engine side control lever comes with a backing plate that attaches to the cabin side of the firewall and has a 2 inch scat tube outlet so a tube can be attached in the cabin that directs air where wanted.
All stainless steel construction offers a fireproof closure in case of an engine fire.
New flapper design offers better seal to keep out hot air when closed.

HEATER BYPASS VALVE FOR RV-10
P/N 08-06230 ..... ---

HEATER BYPASS VALVE WITH CABIN SIDE CONTROL LEVER FOR RV-7, RV-8 AND RV-9 .....P/N 08-01311 ..... ---

HEATER BYPASS VALVE WITH ENGINE SIDE CONTROL LEVER
P/N 08-01311-1 ..... ---

ALL STAINLESS STEEL TRI-BOX

These boxes were developed for builders who want a simple, light, all stainless box that will fit in tight places, as it does not extend forward of the firewall as far as a standard box. Shown in the photo is a left unit. The box is available in both left and right units. The hole spacing is correct for the pre-punched holes in the RV-10 firewall, but they can be mounted on any firewall. For ease in cable routing, the arm on the box is adjustable using the provided lock nuts. Everything in the unit is stainless steel, including bushings and rivets. It is furnished with a closed-cell silicone gasket. Weight is 9.8 ounces and has a 2" inlet/outlet port. Please note that these boxes are a direct replacement for the aluminum box available from Vans. The RV-10 uses both a left and a right unit, and they also can be ordered separately. If you are not sure which one(s) you need, refer to your firewall plans drawings.
Right .....P/N 08-04958 ..... ---
Left unit is a special order part. Please contact us to order.

2 1⁄2" INLET & 2" OUTLET HOME-BUILDERS CABIN HEAT BOX

This box is identical to the deluxe stainless steel cabin heat box, except that the inlet is 2 ½" OD so that it can be used on larger heat muff applications where the builder is using 2 ½" scat tubing. This box is currently being used on the MICCO certified aircraft. Weight is 7.2 ounces.
P/N 08-04013 ..... ---

SIDE INTAKE HOMEBUILDERS CABIN HEAT BOX

P/N DL-015 - This box is identical to the standard cabin heat box, P/N DL-001, except that the air intake is parallel to the firewall rather than coming straight in from the heat muff. This gives the builder the option of running scat tube parallel to the firewall. Total weight is 5.2 ounces and has a 2" inlet/outlet port. Furnished with a flange gasket and four mounting rivets. Can also be bolted to firewall.
P/N 08-04957 ..... ---

GPL STAINLESS STEEL EXHAUST SPRING FOR 2 STROKES

Winding Length: 32mm • Overall Length: 64mm • Hook Distance: 75mm (2.95") • Wire Diameter: 2mm • O.D.: 16mm • Material: 304SS may be slightly magnetic • Number of Rolls: 9.5 • GPL Part Number: EXH-4S • Replaces Rotax Part Number 938-790
P/N 08-12235 ..... ---

CESSNA RISER HALF CLAMP 0750161-25

Cessna Riser Half Clamp 0750161-25, for Cessna 172R and 172S .....P/N 05-04890 ..... ---

AERONCA HEAT MUFF

Aluminum muffs for models 7AC and 11AC exhaust stacks. Fit either left or right side.
P/N 05-08715 ..... ---

2" DIAMETER 90° TUBE

This unit is designed to slide over the end of the 2" O.D. tube protruding from a cabin heat box that extends through the firewall. The short end of this unit is expanded to 2" I.D. Two stainless steel clamps are furnished with the unit. If you use scat tube, the 90° angle allows you to run the scat tube parallel to the firewall and away from undesirable areas (brake pedals, etc.) Constructed of seamless 6061T4 .028 wall tube.
Weight: 1.4 oz. .....P/N 08-00863 ..... ---

2" DIAMETER "Y" TUBE

"Y" tube is designed to be used with the Homebuilders cabin heat box to make warm air available to 2 or more locations in the aircraft. Constructed of seamless 2024T6 tube, it weighs only 2 oz. These tubes are expanded to 2" I.D. on the inlet end to slip over and clamp to the 2" O.D. tube of the cabin heat box. Due to the very light weight, "Y" tubes can be installed in scat tubing as well as attaching directly to cabin heat boxes. One stainless steel clamp is included with "Y" tube. Due to the light weight of only 1.7 oz., the non-expanded Y-tube can be placed anywhere in a run of tubing to give more options for heating additional areas of the aircraft. Furnished w/2 stainless steel hose clamps.
Standard "Y" tube .....P/N 08-04100 ..... ---
Non-expanded "Y" tube .....P/N 08-04130 ..... ---

IN-LINE HEATER/ DEFROSTER VALVE

This in-line valve connects to 2" SCAT ducting. It comes complete with cable end and can be hooked up in any combination to direct air to either heater outlets or defrost outlets. Actuating lever is adjustable to any position. Very popular on RV's & other homebuilt aircraft .....P/N 08-00053 ..... ---

CESSNA TYPE HEAT MUFF

Heli-arc welded aluminum muff with rust-proof stainless steel fins for clamping to stack. Similar in design to the new Cessna type. Furnished with attaching clamps.
w/2" Outlet ..... P/N 08-02400 ..... ---
w/2.5" Outlet ... P/N 08-02500 ..... ---

THERMO-TEC STAINLESS STEEL CLAMP-ON HEAT SHIELDS

Stainless Steel Clamp-On Heat Shield incorporates Thermo-Tec proprietary coating technology. The new and improved flexible Stainless Steel Clamp-On Heat Shield blocks over 95% of the damaging radiant heat of the exhaust. The Stainless Steel construction of this heat shield provides the ultimate in protection.
Comes complete with all clamps and new stainless stand offs. Easily installs in minutes.
1 ft. x 6 in.....P/N 08-13904 ..... ---
2 ft. x 6 in.....P/N 08-13905 ..... ---

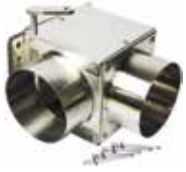
EP

HEAT BOXES – EXHAUST COMPONENTS

DELUXE HOMEBUILDER'S CABIN HEAT BOX

P/N DL-002 - This cabin box is our first modification to our standard heat box. The only difference between this and the standard is that the deluxe cabin heat box has one inlet and two outlets; the second outlet must be used to dump and route, via 2" scat tube, the warm air away from the low plenum area when heat is not being used in the cabin. (It is very important not to run the dump tube to another box on the other side of the firewall, because a constant flow of air is necessary to ensure that the heat muff does not overheat.) The weight on this unit is 5.5 ounces ..... P/N 08-04005 ..... ---

2-1/2" OD INLET AND 2-1/2" OD OUTLET HOMEBUILDERS CABIN HEAT BOX



P/N DL-005 - This box is identical to the deluxe stainless steel cabin heat box, except that the inlet and outlet are 2 ½" OD so that this box can be used when the builder wants to use 2 ½" scat tubing throughout the project. (This box was used on the Cirrus SR20 certified aircraft. The SR20 now uses the DL-008 box listed below.) Weight is 6.3 ounces ..... P/N 08-04015 ..... ---

DELUXE HOMEBUILDERS CABIN HEAT BOX, ALL STAINLESS STEEL

P/N DL-006 - This box was recently developed in response to customer requests. With the exception of brass shaft bushings, this box is constructed entirely of stainless steel, including all SS blind rivets. Like the deluxe boxes, this unit has a 2" inlet and 2" outlets. For the added durability of all stainless steel, the box still only weighs 10 ounces.

P/N 08-04025 ..... --- ea.

ENGINE SAVER

Every aircraft owner knows that his engine is subject to moisture build up and internal rust formation when not flown regularly. Oil companies spend millions developing special additives to minimize rust. Now there is a better way to fight this rust! The Engine saver produces a continuous supply of very low humidity air that is introduced into the engine through the breather. Low humidity air prevents water formation in the engine. The slight pressure built up keeps the moist outside air from entering, allowing the dry air to flow past the piston rings into the upper cylinder area protecting it as well. The Engine Saver is 110vac powered, requires no installation or FAA approval, and works with all piston engines..... P/N 08-00724 ..... ---

TOPCAP ENGINE PROTECTOR

Install TopCap in place of a removed cylinder to protect the engine from dirt, debris, and stray parts. Made from fuel and solvent resistant polymer, TopCap allows for full crankshaft rotation. One size fits Lycoming wide deck 320, 360, 540, 720 and Continental 470, 520, and 550..... P/N 08-00373 ..... --- /pr.

MCFARLANE D A M EXHAUST LUBE

Note: Do not use an anti-seize that contains graphite on your exhaust systems. Graphite corrodes and destroys the grain structure of stainless steel. D A M™ Exhaust Lube does not contain graphite. D A M Exhaust Lube is designed specifically for aircraft exhaust ball joints, clamps, slip joints, and hardware. A low viscosity liquid is blended with molybdenum-disulfide and other special micro-lubricants to produce a protective dry lubricant film. This film embeds into the stainless steel and keeps your joints lubricated for years!

Single (4 oz) ..... P/N 05-27306 ..... ---
Case of 12 ..... P/N 05-27307 ..... ---

2" ALUMINUM FLANGE

Accepts 2" scat tube. Flange allows riveting to firewall, baffles, etc. Wt: 0.2 oz.

P/N 08-04135 ..... ---

CARB HEAT CONNECTOR

Mounts on FAB airbox or similar airbox. Flange accepts 2" scat tube from muff. Standoff design allows hot air to escape when carb heat is not selected. Weight: 0.9 oz.

P/N 08-04145 ..... ---

FLANGED DUCT

Accepts 2" ducting on both ends. Helps route ducting through bulkheads, firewalls, etc. Especially useful for getting heat to the back seat of the aircraft. 3" square plate with 2" tubing projecting 1" from each side. Wt:0.7 oz.

P/N 08-04140 ..... ---

CABIN HEAT BOX

Custom built aluminum box mounts to firewall. Lever on butterfly may be attached to push-pull control for close adjustment of cabin air flow. Two 2" intake ports, one 2" outlet. Wt. 1 lb. 7-1/2" long. Fine quality construction.

P/N 08-01500 ..... ---

HOMEBUILDERS CABIN HEAT SHUTTLE KIT

Easily assembled and designed so that it can be modified for custom applications. Kit includes construction plans and directions along with installation hints for the popular Vans RV series of homebuilt aircraft. Controlled by ratchet type control cable such as ACS model A740 (P/N 05-12500). Order control cable separately..... P/N 08-04460 ..... ---

TURBO HEAT CABIN HEAT MUFF

The Turbo Heat is an improved version of the standard Experimental Cabin Heat Muff. Each canister is made from industrial grade .063 aluminum tubes with .125 6061T-6 aluminum end caps laser cut, welded and then machined to exact tolerance for ease of installation and a vibration free fit. Internally, each canister is fitted with 10 aluminum rods surrounded by copper windings for superior heat transfer. **Dimensions**: The standard model is 8 in. in length with 2 in. intake and exhaust tubes. The end caps are machined specifically for the diameter of your engine's exhaust manifold. Please select your port exhaust diameter at checkout of 1.250 in, 1.375 in, 1.5 in, 1.75 in, or 2.0 in.

Standard ..... P/N 05-15249 ..... ---
Custom Configuration..... P/N 05-27123 ..... ---

STANDARD HOMEBUILDERS CABIN HEAT BOX

P/N DL-001 - This cabin heat box has been engineered to be the smoothest, most efficient and lightest heat box built. Fabricated from aircraft-grade aluminum with stainless steel shaft, arm and flapper. Originally designed for use on the popular RV-4 homebuilt, but is applicable to most other designs. Total weight is only 5.2 ounces. Furnished with a gasket flange for the forward side of the firewall for leak-free ducting of warm air to anywhere the builder wants it. Inlet and outlet are 2 inch OD 6061-T4 seamless alum. The body of the box is constructed of 5052-032 alum. The outlet tube extends through the firewall so that scat tubing can be attached to route the warm air. Superior craftsmanship and quality. Over 4,000 sold to date ..... P/N 08-04000 ..... --- ea.

EXHAUST HEAT SHIELD SYSTEMS

Heat Shield system is very easy to install and can be tailored to your specific needs and application, to control reflected heat in your engine compartment. These block, and control unwanted radiated heat from hot exhaust tubing, thus protecting your cowl and engine accessories from destructive high temperatures. They are held fast in place, approximately ¼" off the hot surfaces with hose clamps around the pipes, or to the specific accessories, hose, line, tubes or item you wish to protect. Unlike most products in this category, they will not shake off or crack in a few hours. The attach brackets are made from .062" 14 ga. 301 stainless steel and will outlast your aircraft. The aluminum heat shields are 6061-T6 .032" pre-punched with properly spaced mounting and ventilation holes every one inch. This makes custom trimming and fitting to your needs very simple. The attach brackets can be fitted to the shields with .125" squeeze rivets, or you can use .125" stainless pop rivets with steel pull pins via the pre-punched holes. These heat shields are available in 4"/6"/12" lengths, and you can specify the tubing size you are going to mount to for proper clamp sizing.

Length	Diameter	Part No.	Price
4"	.5 - 1.25"	05-21805	---
4"	1.5 - 2"	05-21806	---
4"	2.25 - 2.5"	05-21807	---

Length	Diameter	Part No.	Price
6"	.5 - 1.25"	05-21808	---
6"	1.5 - 2"	05-21809	---
6"	2.25 - 2.5"	05-21811	---

Length	Diameter	Part No.	Price
12"	.5 - 1.25"	05-21812	---
12"	1.5 - 2"	05-21813	---
12"	2.25 - 2.5"	05-21814	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AWI EXHAUST SYSTEMS

EXHAUST SYSTEMS BY AEROSPACE WELDING MINNEAPOLIS, INC.

Aerospace Welding, Inc. has earned a reputation for its uncompromising commitment to quality exhaust systems and components. Aircraft Spruce is an authorized distributor of AWI products, and as such can assure our customers of minimal down time and fast shipment through the Priority Service Proram at AWI. All exhaust systems are built in fixtures for precise fit and are FAA approved for the listed aircraft. Available in factory new (N) and overhauled (OH) condition as noted.

*** NOTE: *** 0550157-7 has been consolidated under PMA part number A0450338-14

AWI Aerospace Welding Minneapolis, Inc.

Aircraft	OEM Part No.	Description	Part No.	Price
C-150	0450400-3	LH Muffler (N)	08-00061	---
	0450400-26	RH Muffler (N)	08-00062	---
	0450338-70	RH Riser (N)	08-00063	---
	0450338-69	LH Riser (N)	08-00064	---
	0450338-66	RH Tailpipe (N)	08-00065	---
	0450338-67	LH Tailpipe (N)	08-00066	---
	0450400-201	Shroud	08-14679	---
	0450400-6	Shroud	08-14680	---
	A0450338-10	Tailpipe Clamp without Pin	08-16025	---
	A0450338-9	Tailpipe Clamp with Pin	08-16028	---
	A0450400-200	LH Shroud	08-15997	---
C-152	0454009-5	Muffler (OH)	08-00067	---
	0454009-6	Muffler (OH)	08-00068	---
	A0454002-10	LR Riser	08-15998	---
	A0454002-2	RR Riser	08-16001	---
	A0454002-4	RF Riser	08-16002	---
	A0454023-1	LR Riser	08-16003	---
	A0454023-2	LF Riser	08-16004	---
	A0454023-3	RR Riser	08-16005	---
	A0454023-4	RF Riser	08-16006	---
	A0454009-5	Muffler Assembly	08-18950	---
C-170B/ 172	0550157-9	LH Muffler (OH)	08-00070	---
	A0450338-14*	RH Muffler (OH)	08-00071	---
	0550157-7	Riser (N)	08-00072	---
	0550157-8	Curved Riser(OH)	08-00073	---
	A9954100-9	Muffler (N)	08-07517	---
	A99541005	Riser (N) LR	08-07520	---
	A99541005	Riser (N) LF	08-07521	---
	A0550176-54	Tailpipe	08-14681	---
	A0550176-57	4.5" Curved Riser	08-16010	---
	A10172-013-2	Extended Tailpipe	08-16047	---
	A1455009-3	Muffler Assembly	08-16054	---
	A1455009-3FP	Float Plane Muffler Assembly	08-16055	---
	A1754001-23	Muffler	08-16058	---
	A9954100-3	Shroud	08-16087	---
C-172	0550176-59	Muffler (N)	08-00074	---
	1754001-25	Muffler (N)	08-00077	---
	1754007-1	Riser (OH) RR	08-00079	---
	1754008-1	Riser (OH) LR	08-00080	---
	1754009-1	Riser (OH) LF	08-00081	---
	1754010-1	Riser (OH) RF	08-00082	---
C172R / 172S	A9954100-9	Muffler (N)	08-07517	---
	1754001-9	Muffler with flame tubes	08-00084	---
	0550176-54	Tailpipe	08-14681	---
	2454000-15	Tailpipe	08-14682	---
C-177RG	2054000-42	LH Muffler (OH)	08-00085	---
	2054000-40	LH Muffler (OH)	08-00086	---
	2054000-31	LH Muffler (OH)	08-00087	---
C-180	0750290-3	Muffler OH Dual Exchange	08-00089	---
	0750130-6	Stack Assembly	08-14683	---
C-180/182	0750130-9	Muffler (OH)	08-00090	---
	0750130-12	Muffler (OH)	08-00091	---
	A0750130-44	EXHAUST SYSTEMS	08-18955	---
C-182S	9954200-11	Tailpipe	08-14684	---
	9954200-12	Tailpipe	08-14685	---
C-180 / 182 / 185	A0750161-28	Muffler (N)	08-07514	---
	A0750238-47	Exhaust Stack	08-16046	---
	A0750161-87	Shroud	08-16247	---
	A1254017-19	Muffler Assembly	08-16053	---
C-180G / 182G	A0750161-40	Shroud	08-16008	---
	A0750161-87	Cessna Shroud	08-16247	---
C-206 / 207 / 210	A1250860-122-1M	Standard Turbo Inlet	08-17062	---
	A1250860-122	Standard Turbo Inlet	08-17063	---
C-182/185	0750161-89	Muffler (N)	08-00094	---

SEE WEBSITE FOR AIRCRAFT MODEL ELGIBILITY

Note: (N) or (OH) after description indicates New (N) or Overhauled (OH) condition. All overhauled parts carry a core charge. Please Order according to "Our PartNo."

AWI ANTI-SEIZE COMPOUND 7550

AWI Exhaust Lube is designed specifically for aircraft exhaust ball joints, clamps, slip joints and hardware. A low viscosity liquid is blended with molybdenum-disulfide and other micro-lubricants to produce a protective dry lubricant film. This film imbeds into the stainless steel and keeps your joints lubricated for years.

Features: • Protects up to 2400° F • No Stainless Corroding Graphite • Prevents Heat Corrosion and Joint Lockup • Joints stay free to move with thermal expansion • No greasy powdered metal paste that locks up • Low Viscosity- A little goes a long way Loosens assembled joints ..... P/N 08-17620 ..... ---

EP

Aircraft (cont'd)	OEM Part No.	Description	Part No.	Price
	0750238-20	15 inch Stack (N)	08-00095	---
C-182R	2254003-17	Tailpipe	08-14686	---
	2254003-18	Tailpipe	08-14687	---
C-182RG	1250251-12	Muffler (OH) w/ ring	08-00107	---
C-206/210	1250263-2A	LH Collector	08-00103	---
	1250264-2A	RH Collector	08-00104	---
	650-43	LH Muffler (OH)	08-00106	---
	1250251-13	RH Muffler (OH) w/ rings	08-00107	---
	1250251-16	RH Muffler (OH)	08-00108	---
	1250256-7	LH Tailpipe (N)	08-00109	---
	12502646-6	RH Tailpipe (N)	08-00111	---
	1250860-203	Heat Exchanger (OH)	08-00115	---
	1250860-90	Crossover (OH)	08-00116	---
	12502860-164	New Tailpipe	08-15666	---
	12520860-168	Tailpipe Adapter	08-15667	---
C-206/210	12520860-1057M	LH Exhaust Modified	08-15669	---
	12520860-100	Riser	08-15670	---
	12520860M-122	Turbo Inlet Assembly Modified	08-15671	---
	1250263-2	LH Stack Assembly	08-16048	---
	1250264-2	RH Stack Assembly	08-16049	---
	1250860-117	Riser	08-16051	---
	120860-29	Clamp	08-16052	---
	1555001-1	Muffler (OH)	08-00121	---
	9910296-7	Slip Joint SS	08-16069	---
	9910299-15	LH Elbow Sealess	08-16071	---
	9910299-16	RH Elbow Sealess	08-16074	---
	9910299-15L	LH Inconel Elbow Sealess	08-16072	---
	9910299-16L	RH Inconel Elbow Sealess	08-16075	---
	9910299-3	LH Elbow Seal	08-16076	---
	9910299-4	RH Elbow Seal	08-16078	---
	9910299-3L	LH Inconel Elbow Sealess	08-16077	---
	9910299-4L	RH Inconel Elbow Sealess	08-16079	---
	9910299-13	Left Westgate Overboard	08-16015	---
	9910299-14	Right Westgate Overboard	08-16016	---
	9910299-5	Elbow	08-16080	---
	9910299-6	Westgate Overboard	08-16081	---
	9910299-10	Bypass Elbow	08-16014	---
	A075161-22	Clamp	08-16044	---
	A0750161-24	Clamp	08-16045	---
C-340 /340A/ 414/414A	A9910299-1	TailPipe Assembly Non-extended LH	08-18733	---
	A9910299-2	TailPipe Assembly Non-extended RH	08-18737	---
	A9910299-1X	TailPipe Assembly Extended LH	08-18736	---
	A9910299-2X	TailPipe Assembly Extended RH	08-18738	---
C-300/400	A9910295-13I	Stack Assembly- C-300/400 Inconel LH	08-18727	---
C-300/400	A9910295-14I	Stack Assembly- C-300/400 Inconel RH	08-18728	---
	A9910300-16	TailPipe Assembly RH	08-18744	---
C-421, 421A, 421B	A5155156-47	TailPipe LH	08-18716	---
	A5155156-48	TailPipe RH	08-18717	---
Piper	A63243-002	1.75" Exhaust PIn Clamp	08-16275	---
Piper J-3	71053-02	Muffler (OH)	08-00122	---
	A14235-00	2" Clamp with Pin	08-16245	---
PA12/14/ 16/20/22	A11417-004	TailPipe	08-16274	---
PA18	12433-014	Muffler (OH)	08-00123	---
PA24-180/250	A26385-00	Muffler Assembly	08-18714	---
PA28-140	A66704-02	Shroud	08-16251	---
PA28-140/ 150/160/180	A99044-03	Left Rear Exhaust Stack	08-16252	---
	A63726-04	Right Front Exhaust Stack	08-16250	---
PA-28-150/ 160/180/ 151/161/181	A62230-00	Right Front Exhaust Stack	08-16260	---
PA28-151 / 161/181	A35300-00	Left Front Exhaust Stack	08-16261	---
PA28-150/PA28-160/PA28-180	A35655-02	Carb Heat Clamp	08-17040	---
PA28-140/160/180	A62208-02	Shroud	08-16248	---
PA28-140/180	99482-00	Muffler (OH)	08-00129	---
	A99482-02	Muffler (N)	08-13105	---
	99044-02	Stack (OH)	08-00131	---
	99044-04	Stack (OH)	08-00132	---
	99044-05	Stack (OH)	08-00133	---
PA28-10/180/ 151/494/191	AWI 63666-002	Tailpipe (N)	08-07515	---
	AWI 63723-001	Carb. Heat Shroud	08-14861	---
PA-28-40/160	A63723-002	Shroud Bottom	08-14862	---
	A63726-02	Left Front Stack 8" Drop	08-15764	---
PA-28-150/160/180	A62981-006	Carb Heat Shroud LH	08-17690	---
	A62981-007	Carb Heat Shroud RH	08-17689	---
PA28-151/161	A35656-02	Carb Heat Link	08-16255	---
	A35301-01	Left Rear Exhaust Stack	08-16256	---
	A62232-004	Right Rear Exhaust Stack	08-17039	---
PA28-151/ 161/180/191	66894-03	Muffler (N)	08-00135	---
PA28-180	A62231-00	Left Rear Exhaust Stack w/Tab	08-16253	---
PA28R-180/200	67517-00	Muffler (N)	08-00136	---
Aircraft (cont'd)	**OEM Part No.**	**Description**	**Part No.**	**Price**

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PA-28-181	A85477-02	Front Muffler	08-16258	---
	A85477-05	Rear Muffler	08-16259	---
	A690-091	Bolt Flange	08-17692	---
PA28-200/201	A67809-00	Right Front Exhaust Stack	08-16263	---
	A67810-00	Left Front Exhaust Stack	08-17763	---
	A67811-00	Left Rear Exhaust Stack	08-17056	---
PA28-200/201	A67812-00	Right Rear Exhaust Stack	08-16264	---
PA28-235	65012-00	Muffler (OH)	08-00137	---
	65813-00	Muffler (OH)	08-00138	---
	68718-03	Muffler (OH)	08-00139	---
	65038-00	LH Stack (OH)	08-00140	---
	65039-00	RH Stack (OH)	08-00141	---
PA28-236	67517-00	Muffler (N)	08-00136	---
PA31	A16696	LH Center Tube	08-14621	---
	A16697	LH Aft Elbow	08-14622	---
	A16826	LH Manifold Assembly	08-14623	---
	A16621	RH Center Tube	08-14624	---
	A16620	RH AFT Tube	08-14625	---
	A16825	RH Manifold Assembly	08-14626	---
	A15849	Short Fwd Tube	08-14629	---
PA31-350	A40310-10	Upper Tailpipe Assembly	08-14627	---
PA31-310/ 325/350	A40310-9	Lower Tailpipe Assembly	08-14628	---
PA32-260	68718-00	Muffler (OH)	08-00150	---
PA32-300	68796-00	Muffler (OH)	08-00153	---
	68793-00	Stack (OH)	08-00154	---
PA-32-300/ 32R-300 / 32RT-300 / 32R-301	A38137-02	Left Rear Exhaust Stack	08-16265	---
	A38137-03	Left Center Exhaust Stack	08-16266	---
	A38137-04	Left Front Exhaust Stack	08-16267	---
	A38137-05	Right Front Exhaust Stack	08-16268	---
	A38137-06	Right Center Exhaust Stack	08-16269	---
	A38137-07	Right Rear Exhaust Stack	08-16270	---
PA34-200-I	78463-10	LH Tailpipe (OH)	08-00158	---
	78463-10	RH Tailpipe (OH)	08-00159	---
PA38-112	77669-02	Muffler (OH)	08-00160	---
PA-44-180	86299-07	Muffler (OH)	08-00161	---
	A89366-005	Seminole Right Rear Exhaust Stack	08-17686	---
	A86202-004	Right Front Exhaust Stack	08-17685	---
	A89366-011	Seminole Left Rear Exhaust Stack	08-17691	---
	A89364-005	Seminole Cover Carb Heat Shroud	08-17687	---
Beechcraft	A35-950004-7	Beechcraft Left Hand Tailpipe	08-16271	---
	A35-950004-17	Exhaust Clamp Set With Hardware	08-16272	---
	A35-950004-9	Right Hand Tailpipe	08-16273	---
B-V35/A36	35-950005-1	LH Stack (OH)	08-00164	---
	35-950005-3	RH Stack (OH)	08-00165	---
	701-4	LH Muffler (N)	08-00166	---
B-V35/A36	701-20	LH Muffler (N)	08-00167	---
	701-5	RH Muffler (OH)	08-00168	---
	701-19	RH Muffler (OH)	08-00169	---
	35-950004-9	RH Tailpipe (OH)	08-00171	---
	35-950005-61	LH Tailpipe (N)	08-00172	---
	35-950005-57	RH Tailpipe (N)	08-00173	---
	35-950004-7	LH Tailpipe (N)	08-00176	---
	A189	RH Muffler	08-16041	---
	A492-43	LH Muffler	08-16042	---
	A35-950004-7	LH Tailpipe	08-16271	---
	A35-950004-17	Exhaust Clamp Set	08-16272	---
	A35-950004-9	RH Tailpipe	08-16273	---
B-35H-P	492-27	RH Muffler (OH)	08-00174	---
	A96-950002-7	Riser Cyl. #4 (OH)	08-18725	---
B-Sundowner	099001-127	Muffler (OH)	08-00206	---
B-Sport	099001-126	Muffler (OH)	08-00207	---
Bellanca Citabria	3-1493R	Muffler (OH)	08-00209	---
	3-1493L	Muffler (OH)	08-00210	---
Bellanca 8KCAB	099001-046	Muffler (OH)	08-00213	---
Bellanca 8GCBC	099001-046	Muffler (N)	08-13106	---
Bellanca: Scout & Decathlon 8GCBC, 8KCAB, 7ECA	A099001-703	Shroud Assembly -7ECA /8 GCBC	08-18765	---
Grumman AA1 Yankee	099001-113	Muffler (OH)	08-00218	---
Grumman AA1 A&B	099001-137	Muffler (OH)	08-00219	---
Grumman AA1/ AA5/ AA5A/ AA5B	AWI099001-102	Straight Riser (N)	08-07523	---
Grumman AA5B Tiger	A099005-184	Riser	08-16040	---
Grumman AA5A Cheetah	099005-195	Muffler (OH)	08-00221	---
Grumman AA5B Tiger	099001-191	Muffler (OH)	08-00222	---
Grumman AA5/AA5A	099005-195	Muffler (OH)	08-00221	---
Mooney M20	630060-503	200 Muffler (OH)	08-00224	---
Mooney M-20	A630053-013	Upper Riser	08-16030	---
Mooney M20J	A630119-501	Tailpipe	08-16039	---
Musketeer	AWI099001-120	Straight Riser (N)	08-13107	---
	A35-950005-39	Hi Perf RH Collector	08-15989	---
	A35-950005-37	Hi Perf LH Collector	08-15990	---

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ACORN EXHAUST PARTS

Acorn Welding is Canada's largest aircraft exhaust company and the world's largest radial and vintage aircraft exhaust company. Acorn provides exhaust, engine mounts, fuel tanks, and carb air boxes for Cessna, Piper, Beechcraft, along with many other makes and models.

Description	Application	Part No.	Price
Acorn Airbox Flapper Standoff	Cessna 172 / 180 / 182	08-18371	---
Acorn Carb Heat Box Shroud - 2.5" Hose	Cessna 172	08-18276	---
Acorn Muffler Assembly with 15" Tailpipe	Cessna 172 / 177	08-17741	---
Acorn Muffler Collector	Cessna 180 / 182	08-18001	---
Acorn Carb Heat Box Shroud - 2" Hose	Cessna 172 / 177	08-18277	---
Acorn Muffler Assembly	Piper PA-28	08-18061	---
Acorn Riser Right Position / Aft Stack Assembly	Piper PA-44	08-18188	---
Acorn Exhaust Collector Center Slip Riser	Cessna 180 / 182 / 185 / 188	08-18023	---
Acorn Flapper Assembly	Cessna 180 / 182 / 185 / 188	08-17821	---
Acorn Carb Air Box Flapper Assembly	Cessna 172	08-17822	---
Acorn Riser - Cylinder #5	Cessna R172 / 336 / 337 / T337	08-18207	---
Acorn Right Hand Forward Stack	Piper PA-28	08-18316	---
Acorn Right Front Exhaust Stack - Cylinder #1	Piper PA-30 / PA-39	08-18323	---
Acorn Carb Air Box	Cessna 172	08-17746	---
Acorn Carb Air Box Flapper Assembly	Cessna 172	08-17823	---
Acorn Left Rear Exhaust Stack	Piper PA-44	08-18175	---
Acorn Riser - Cylinder #1	Cessna 172 XP / 336 / 337 / 337P	08-18203	---
Acorn Riser - Cylinder #4	Cessna 172 XP / 336 / 337 / 337P	08-18206	---
Acorn Airbox Center Panel	Cessna 172	08-18368	---
Acorn Muffler Shroud Assembly	Cessna 152	08-17779	---
Acorn Stack Assembly Left Forward Position	Piper PA28	08-17918	---
Acorn Exhaust Riser - Left	Cessna 206 / 207 / 210	08-18024	---
Acorn Exhaust Riser - Right	Cessna 206 / 207 / 210	08-18059	---
Acorn Airbox Top Skin	Cessna 180 / 182 / 185 / 188	08-18243	---
Acorn Left Rear Exhaust Stack - Cylinder #4	Piper PA-30 / PA-39	08-18336	---
Acorn Left Hand Aft Stack with Tab	PA-28	08-17765	---
Acorn Left Exhaust Collector / Statck Assembly	Cessna 182S/T	08-17861	---
Acorn Stack Assembly Right Hand Forward	PA-28	08-17938	---
Acorn Right Hand Aft Stack	PA-28	08-17973	---
Acorn Riser - Cylinder #2	R172 / 336 / 337 / T337	08-18204	---
Acorn Riser - Cylinder #6	R172 / 336 / 337 / T337	08-18208	---

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NICROCRAFT EXHAUST PARTS

NICROCRAFT EXHAUST PARTS BUILT TO TAKE THE HEAT

Cessna 150

Aircraft Spruce & Specialty Co. offers fully overhauled and factory new exhaust components for use in most general aviation aircraft. Manufactured by Wall Colmonoy Corp. Nicrocraft exhaust parts are built to the latest original equipment specifications. Heat-resistant 321 stainless steel is used in the construction of all new p arts. Bellows are made of Inconel alloy for superior heat resistance. Individual exhaust components and complete systems are available for virtually all single and twin engine Cessna, Piper, Beech, Bellanca, Grumman, Mooney, and Rockwell aircraft. (Please provide your complete aircraft and engine model and serial numbers, year of aircraft, and exact components required.) Most components are available for immediate shipment.

CESSNA EXHAUST PARTS

Application	Description	OEM	Part No.	Price
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Clamp Assembly	186-8	08-16093	---
Cessna 180, S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Clamp Assembly	192-001	08-16094	---
Cessna 170B, 172, 172A	Clamp Assy.	221-5	08-16101	---
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Clamp Assembly	568-06	08-16120	---
Cessna 172B thru 172H; F172F thru F172K; P172D; 175B,C	Clamp Assembly	568-31	08-16121	---
Cessna : 205; 206; U206; U206A, B, C, D, F; P206, P206A, B, C, D, E	Clamp Assembly	596-0005	08-16122	---
Cessna 210B, C, D, E, F, G, H, J, K, L, M, N	Clamp Assembly	596-02	08-16123	---
Cessna 205, 206, U206A,thru,F, P206, P206A thru E, 210B thru N	Collector LH	1250263-2, 1250256-3	08-00850	---
Cessna 205, 206, U206A,thru,F, P206, P206A thru E, 210B thru N	Collector RH	1250264-2, 1250257-3	08-00851	---
Cessna T310P, Q, R, 320D, E,F; 401, A, B; 402, A, B	Header, LH	8026-36	08-16139	---
Cessna T310P, Q, R, 320D, E,F; 401, A, B; 402, A, B	Header, RH	8026-25	08-16138	---
180B, C, D, E, F	Heat Muffler	0750130-44	08-00556	---
182B, C, D, E, F	Heat Muffler	0750130-9	08-00554	---
Cessna 205, 206, U206A, thru, F, P206, P206A thru E, 210B thru N	Heat Muffler LH	1250250-5	650-43	---
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Heat Muffler	225-5	08-16108	---
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Heat Muffler	CEM0007	08-16154	---
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Heat Muffler	CEM0008	08-16155	---
Cessna 210B	Heat Muffler RH	650-99	08-16134	---
Cessna 152	Muffler	0454009-5	08-03629	---
& A152 (S/N 978 & up)	Muffler	0454009-6	08-03628	---
Cessna R172	Muffler	1455009-3	08-00341	---
Cessna 180, 182	Muffler	0750161-28, 0750161-89	08-01313	---
Cessna 172 I thru Q, 177	Muffler	1754001-15, 1754001-9, 1754001-22	08-03635	---
Cessna 310R	Muffler	8282-1	08-16140	---
Cessna 172R; 172S	Muffler	WCC9954100-9	08-16165	---
Cessna 150G, H, J, K, L, M A150K, L, M, F150G, H, J, K, L, M, FA150K, L	Muffler LH	0450400-3	8300-3	---
C170, 172, A, Cont 0-300/ C145	Muffler LH	0550157-9	221-9	---
Cessna 172B thru H, F172F thru K, P172D, 175B, C	Muffler LH & RH	0550176-59	568-110	---
Cessna 150G, H, J, K, L, M, A150K, L, M, F150G, H, J, K, L, M, FA150K, L	Muffler RH	0450400-26	8300-4	---

Application	Description	OEM	Part No.	Price
C170,172,A,Cont 0-300/ C145	Muffler RH	0550157-32	08-00551	---
C210B	Muffler RH	1250251-16	08-00849	---
Cessna 205; 206; U206; U206A, B, C, D, F; P206, P206A, B, C, D, E	Muffler w/ Heat Shield	650-95	08-16132	---
Cessna 337 (Rear Engine)	Muffler, Rear	CEM0022	08-16157	---
Cessna 170B, 172, 172A	Riser	221-7	08-16102	---
Cessna 170B, 172, 172A	Riser	221-8	08-16103	---
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Riser	223-01	08-16105	---
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Riser	223-02	08-16106	---
Cessna 180 S/N 30000 thru 32150 w/ Continental Engine O-470-A or O-470-J	Riser	223-03	08-16107	---
Cessna 205; 206; U206; U206A, B, C, D, F; P206, P206A, B, C, D, E	Riser	596-30	08-16124	---
Cessna 210B, C, D,E, F, G, H, J, K, L, M, N	Riser	650-18	08-16127	---
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Riser	8300-13	08-16146	---
Cessna 170B, 172, 172A	Shroud Assy., LH	221-15	08-16104	---
Cessna 205; 206; U206; U206A, B, C, D, F; P206, P206A, B, C, D, E	Shroud Assy., LH	650-47	08-16129	---
Cessna 210B	Shroud Assy., RH	650-46	08-16128	---
Cessna	Spring	186-218	08-16091	---
C172 O-320	Stack	1754007-1	08-00844	---
C172 O-320	Stack	1754008-1	08-00846	---
C172 O-320	Stack	1754009-1	08-00847	---
C172 O-320	Stack	1754010-1	08-00848	---
Cessna 180, 182, 185	Stack	CES0002	08-16158	---
Cessna 180, 182, 185	Stack	CES0003	08-16159	---
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Stack Assy., LH Engine Inbound	BES0007	08-16152	---
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Stack Assy., LH Engine Outbound	BES0005	08-16150	---
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Stack Assy., RH Engine Inbound	BES0006	08-16151	---
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Stack Assy., RH Engine Outbound	BES0008	08-16153	---
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Stack, LH	BES0002	08-16149	---
Cessna 170B, 172, 172A	Tailpipe	221-33	08-16099	---
Cessna 170B, 172, 172A	Tailpipe	221-4	08-16100	---
Cessna 205; 206; U206; U206A, B, C, D, F; P206, P206A, B, C, D, E	Tailpipe	650-67	08-16131	---
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Tailpipe	8300-7	08-16147	---
Cessna 150G thru 150M; A150K, L, M; F150G thru M; FA150K, L	Tailpipe	8300-8	08-16148	---
Cessna	Tension Spring	186-225	08-16092	---

EP

NICROCRAFT EXHAUST PARTS

NICROCRAFT EXHAUST PARTS - PIPER

Wall Colmonoy Corp. Nicrocraft exhaust components fully overhauled and factory new for use in most general aviation aircraft.

- Built to the latest original equipment specifications.
- Heat-resistant 321 stainless steel construction of all factory new parts.
- Bellows are made of Inconel alloy for superior heat resistance.

Application	Description	OEM	Part No.	Price
Piper PA-18	Muffler	12433-15	08-00242	---
Piper PA-12, PA-14, PA-16, PA-20, PA-22, PA-25	Muffler	10308-03	08-03631	---
Piper PA-38-112	Muffler	77669-02	08-12411	---
Piper PA-44-180	Muffler	PIM0010	08-16163	---
Piper PA-28-180, S/N 28-1 thru 28- 1760	Muffler	PIM0002	08-16160	---
Piper PA-28-151, PA-161, PA-180, PA-181	Muffler (2 req.)	66894-03	08-03633	---
Piper PA-28R-180, PA-28-R200, PA-28RT-201, PA-28-236, PA-32-300, PA-32-301, PA-32R-300, PA-32R-301	Muffler (2 req.) / (3 req.) for 236	67517-00	08-03632	---
Piper PA-28-140, PA-28-150, PA-28-160	Muffler w/o Shroud	99482-00	08-03630	---
Piper PA-28-150, -160, -180	Muffler, Front (Shroud not included)	PIM0008	08-16161	---
Piper PA-28-150, -160, -180	Muffler, Rear (Shroud not included)	PIM0009	08-16162	---
Piper PA-28-181, S/N 2843001 & ON	Muffler, Forward	85477-02	08-17166	---
Piper PA-28-181, S/N 2843001 & ON	Muffler, Rear	85477-05	08-17167	---

SR-22 CIRRUS EXHAUST PARTS

Nicrocraft SR-22 Cirrus mufflers and heat exchangers are FAA/PMA approved. The mufflers and heat exchangers are built out of 321 stainless steel with inconel baffles, and carries a one year, unlimited hour warranty.

Model #	Description	Installation Eligibility Make	Installation Eligibility Model	Part Number	Price
WCC 14836-002	Muffler	Cirrus Design Corporation	SR22 S/N 0320 and up	08-17057	---
WCC 14837-001	Heat Exchanger	Cirrus Design Corporation	SR22 S/N 0320 thru 2437	08-17059	---

EXHAUST MUFFLER FOR CESSNA 180/182/185

Exhaust Muffler with Cones for the Cessna 180/182/185 aircraft.

P/N 08-17949 ..... ---

BEECHCRAFT EXHAUST PARTS

Application	Description	OEM	Part No.	Price
Beech FEEA,F33C, S/N CJ-26 & UP / C33A,E33A S/N CE-290 & UP	Collector LH	35-9016-1S, 35-9016-1SR	08-00853	---
Beech FEEA,F33C, S/N CJ-26 & UP / C33A,E33A S/N CE-290 & UP	Collector RH	35-9016-1S, 35-9016-1SR	08-00854	---
Beechcraft B33, S/N CD-736 THRU CD-813	Heat Muffler LH w/o Shroud	186-30	186-30	---
Beechcraft H35, J, K, M, N, P35	Heat Muffler LH	492-43	08-00555	---
Beechcraft 36,A36 S/N E-1 And Up / S35,V35,V35A,V35B, S/N D-7310 AND UP	Heat Muffler RH	701-19	701-19	---
Beechcraft Model 76 Duchess	Muffler	8295-205	08-16145	---
Beechcraft H35; J35; K35; M35; N35; P35	Muffler RH	492-27	08-16115	---
Beechcraft C33A; E33A, C; F33A, C; G33; S35; V35, A, B; 36; A36	Muffler and Shroud Assembly, RH	701-21	08-16135	---
Beechcraft H35; J35; K35; M35; N35; P36	Shroud Assembly	492-42	08-16116	---
Beechcraft C33, E32	Shroud Assembly RH	701-50	08-16136	---
Beechcraft B33 Thru E33 S/N CD-1 Thru CD-1254	Stack Assembly LH	35-950118	08-03627	---
Beechcraft B33 Thru E33 S/N CD-1 Thru CD-1254	Stack Assembly RH	35-950116	08-03626	---
Beechcraft Model 76 Duchess	Stack, Cylinder #1	8295-101	08-16141	---
Beechcraft Model 76 Duchess	Stack, Cylinder #2	8295-102	08-16142	---
Beechcraft Model 76 Duchess	Stack, Cylinder #3	8295-103	08-16143	---
Beechcraft Model 76 Duchess	Stack, Cylinder #4	8295-104	08-16144	---

OVERHAULED EXHAUST PARTS

Beechcraft

Wall Colmonoy Corp. Nicrocraft exhaust components fully overhauled and factory new for use in most general aviation aircraft.

- Built to the latest original equipment specifications.
- Heat-resistant 321 stainless steel construction of all factory new parts.
- Bellows are made of Inconel alloy for superior heat resistance.

Aircraft	Description / OEM#	Part No.	Price
Beechcraft C33A, E33A, F33A, C, S35, 36, A36	Heater Muffler RH w/o shroud / #701-19	701-19R	---
Cessna 210B	Heater Muffler LH / #1250250-15	1250250-5R	---
Piper PA-18	Muffler / #12433-15	12433-15R	---

EP

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AEROTAR EXHAUST SYSTEMS

CESSNA 152

Model Number/ Exhaust Assembly	Description	Part No.	Price
0454023-3 / 0454021-1	Riser Assembly RH AFT	08-15736	---
0454023-4 / 0454021-1	Riser Assembly RH FWD	08-15737	---
0454009-6 / 0454021-1	Muffler Assembly	08-15738	---
0454010-9 / 0454021-1	Shroud Assembly (2 Piece)	08-15739	---
0454023-2 / 0454021-1	Riser Assembly LH FWD	08-15740	---
0454023-1 / 0454021-1	Riser Assembly LH AFT	08-15741	---
0454010-1 / 0454011-200	Shroud Assembly (2 Piece)	08-15743	---
0454002-4 / 0454011-200	Riser Assembly RH FWD	08-15745	---
0454002-2 / 0454011-200	Riser Assembly RH AFT	08-15746	---
0454002-11 / 0454011-200	Riser Assembly LH FWD	08-15747	---
0454002-10 / 0454011-200	Riser Assembly LH AFT	08-15748	---

CESSNA 172

Model No.	Description	Part No.	Price
9954100-3	Shroud Assembly	08-15751	---
9954100-9	Muffler Assembly	08-15752	---
9954100-7	Riser RF (1754010-1)	08-15753	---
9954100-4	Riser RR (1754007-1)	08-15754	---
9954100-6	Riser LF (1754009-3)	08-15755	---
9954100-5	Riser LR (1754008-3)	08-15756	---
1555014-2	Clamp	08-15757	---
0454013-1	Carb Heat Shroud	08-15758	---
1750011-4	Carb Heat Box	08-16323	---

AEROTAR CESSNA C152 ENGINE MOUNT

Aerotar Engine Mount Exchange for Cessna C152 (+$650 Core Exchange Charge)
P/N 08-16335 ..... ---
Aerotar Engine Mount Outright for Cessna C152.
P/N 08-19062 ..... ---
(This part is considered oversize.)

CESSNA 180 / 182 / 185

Model No.	Description	Part No.	Price
0750238-210	Stack - RH OR LH	08-16326	---
0750161-22	2 -5/8" Clamp without PIN	08-16329	---
0750161-24	2 -5/8" Clamp with PIN	08-16330	---
0750161-40	Shroud Assembly	08-16331	---

CESSNA 310 / 414

Model No.	Description	Part No.	Price
0851053-1	Heat Shield Shroud Half IB - LH or RH	08-16332	---
0851053-5	Heat Shield Shroud Half OB - LH or RH	08-16333	---

PIPER PA-28R (180I200I201) ARROW I / II / III / IV

Model No.	Description	Part No.	Price
67517-000	Muffler	08-15759	---
67651-000	Shroud Assembly - 2	08-15760	---
104628-002	PA-28-181 Muffler	08-15784	---
99600-000	Shroud Assembly - 3	08-15761	---
67808-000	Shroud Bottom	08-21797	---
63243-002	Clamp	08-15762	---

PIPER PA-23-250T

Aerotar Piper with Lycoming T10-540 Engine PA-23-250T.

Model No.	Description	Part No.	Price
77981	Strut Turbo Left Hand	05-21792	---
77983	Turbo Support	05-21793	---
LW-10119	Support Turbo Top Right Engine	05-21794	---
LW-10985	Heat Shield Manifold	05-21795	---
77982	Strut Turbo Right Hand	05-21796	---

PIPER PA-34-200 SENECA

Aerotar Exhaust Systems for Piper PA-34-200 Seneca w/Lycoming IO/LIO 360 Engine.

Model No.	Description	Part No.	Price
78463-017	Tail Pipe Shroud - Right Engine	08-16341	---
78463-009	Tail Pipe Shroud - Left Engine	08-16342	---

EP

FAA/PMA EXHAUST COMPONENTS

POWER FLOW SYSTEMS INC. EXHAUST SYSTEMS

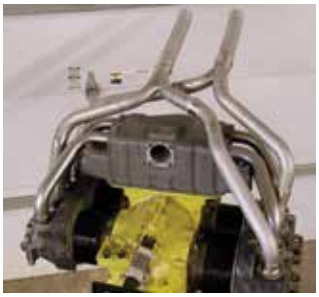
Power Flow Systems, Inc., the world leader in designing, manufacturing, and retailing of FAA Certified High Performance aircraft tuned exhaust systems. Their Tuned Exhaust System is totally different. When you break down their exhaust system, you have two “sets” of pipes; the primary (header/collector combination) and the secondary (pipe after the collector). The primary contains four independent tubes that all join at the “4-1 Collector”. As each “exhaust puff” of spent fuel travels through the primaries, it leaves a vacuum behind. In their tuned exhaust system, they have adjusted the length of each tube so that the vacuum reaches the collector just in time to “suck out” the exhaust from the next cylinder. The exhaust gases are not only being pushed out by the cylinder, but “extracted” by the vacuum, so a bigger, fresher charge will enter the cylinder during the next cycle. A tuned exhaust system really promotes a smoother, cooler, and finally more powerful running engine.

Airplane	Type of System	Power Flow P/N	Our P/N	Price
Cessna 172 C-172 w/ O-320	Classic Ceramic	PFS-13204-Ceramic	08-05957	---
	Short Stack Polished	PFS-13204-InternalC	08-05958	---
Cessna 172 or 175 C-172 w/ O-360	Classic Polished	PFS-13204-O360	08-00359	---
	Classic Ceramic	PFS-13204-O360-Ceramic	08-05960	---
	Short Stack Polished	PFS-13204-O360-InternalC	08-05961	---
	Short Stack Ceramic	PFS-13204-InternalCCER	08-05962	---
Cessna 177 C-177 w/ O-320	Classic Polished	PFS-13704	08-00360	---
	Classic Ceramic	PFS-13704-Ceramic	08-05963	---
	Short Stack Polished	PFS-13704-InternalC	08-05964	---
	Short Stack Ceramic	PFS-13704-InternalCCER	08-05965	---
Cessna 177A C-177 w/ O-360	Classic Polished	PFS-13704-O360	08-00361	---
	Classic Ceramic	PFS-13704-0360-Ceramic	08-05966	---
	Short Stack Polished	PFS-13704-0360-InternalC	08-05967	---
	Short Stack Ceramic	PFS-13704-0360-InternalCCER	08-05968	---
Cessna 177B (0-360)	Classic Polished	PFS-13705	08-00880	---
	Classic Ceramic	PFS-13705-Ceramic	08-05969	---
	Short Stack Polished	PFS-13704-InternalC	08-05970	---
	Short Stack Ceramic	PFS-13705-InternalCCER	08-05971	---
C-177RG w/ IO-360/390 **Revised Application	Classic Ceramic	PFS-15102-Ceramic	08-07165	---
	Short Stack Polished	PFS-13706	08-07163	---
	Short Stack Ceramic	PFS-13706-Ceramic	08-07164	---
Cessna 180 / 182 / 185	Polished Finish	PFLOWPMCF-180	08-19086	---
Cessna 205 / 210	Polished Finish	PFLOW205210	08-19087	---

FOR ALL APPLICATIONS AND FINISHES VISIT OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

VETTERMAN RV EXHAUST SYSTEM



Vetterman Exhaust has been manufacturing exhaust systems for the Van's Aircraft RV series since 1990. Exhaust systems for all RV models & Van's approved engine models are available. All systems are manufactured from MIL Spec 321 stainless steel, which is mandrel bent, trimmed to length and tack welded on a Lycoming engine. This method assures the best fit possible. All systems incorporate ample slip & ball joints which greatly reduces breaking potential. All systems include blow proof gaskets, stainless exhaust nuts & washers for installation. Also include tail pipe mounting kits or pipe support brackets. Some systems also include a cabin heat muff.

Aircraft	Description	Part Number	Price
RV-3	O-320 Conical Mount 4 Pipe Systems	08-00583	---
RV-3	O-320 Dynofocal Mount 4 Pipe Systems	08-00584	---
RV-3	O-360 Dynofocal Mount 4 Pipe Systems	08-00585	---
RV-4	O-320 Conical Mount 4 Pipe Systems	08-00586	---
RV-4	O-320 Dynofocal Mount 4 Pipe Systems	08-00587	---
RV-4	O-360 Dynofocal Mount 4 Pipe Systems	08-00588	---
7-7A,8-8A, (O-360/320)	*Includes tail pipe mounting kit	08-00591	---
RV-6,7,8,9A (O-320-H2AD)	*Includes tail pipe mounting kit	08-00592	---
RV 7-7A (IO-360 AIA 200)	*Includes tail pipe mounting kit	08-00593	---
RV8 (IO-360)	*Includes tail pipe mounting kit	08-00594	---
RV 8A (IO-360)	*Includes tail pipe mounting kit	08-00595	---

NOTE: EACH OF THESE SYSTEMS WILL NOT INTERCHANGE BETWEEN AIRCRAFT AND ENGINE MODELS. THESE SYSTEMS ARE DESIGNED AND INTENDED FOR USE ON RV AIRCRAFT ONLY. PRICES DO NOT INCLUDE SHIPPING CHARGES.

PA-11 STYLE EXHAUST STACKS

Piper PA-11 Style Exhaust Stack with Starter (Left). Experimental Use Only. Longer down pipes to clear starter, Left Hand. Can be used on Piper J-3, but some modifications of cowling may be necessary.
Starter Left.....P/N 05-12465 ..... ---
Starter Right .....P/N 05-12466 ..... ---

SNOWLINE RV-6 & RV-6A CROSSOVER EXHAUST SYSTEM

The material used on these systems is 1-3/4" O.D. x .035 wall 321 stainless steel tubing. 2 models are available; one for Lycoming engines up to 180 H.P. and the other for the Lycoming IO-360 (200 H.P. engine). Bending is performed using an inside mandrel which the tube is drawn over during bending to maintain the inside diameter. Flanges are made from 1/4" stainless steel. This heavy materialgreatly reduces warping & cracking. Tail pipes are attached to the header with a slip joint. Simply slide the tail pipes onto the header, position the end of the pipe as desired in the bottom opening, and attach with the stainless steel retaining clamp. One heat muff has been provided on the front cross-tube. This muff is intended for carburetor heat. If an injection system is being used, this muff can be used for cabin heat. An optional cabin heat muff can be ordered when carburetor heat requires the use of the standard heat muff. All hardware is provided to install the system. Stainless Steel nuts, bolts, washers, blow-proof gaskets, 2 stainless clamps for attaching tail pipes to the firewall or engine mount. U-type clamp attaches the cable housing securely in place.
RV-6/RV-6A Crossover Exhaust System (To 180 H.P.)
P/N 08-05790 ..... ---
Optional Cabin Heat Muff.....P/N 08-00679 ..... ---
***Will not work with front mounted injectors**

THE RV-6/RV-6A EXHAUST SYSTEMS ARE RECOMMENDED FOR THESE AIRCRAFT ONLY. FOR OTHER EXPERIMENTALS, THE RV-4 SYSTEM MAY FIT BETTER UNDER COWLS AS IT IS BUILT TIGHTER TO THE ENGINE.

EP

HEAT SHIELDS – HEAT BOXES

VHT FLAMEPROOF COATINGS

Originally designed for NASA's reentry spacecraft. Designed to withstand temps. up to 1500°F (816°C) VHT FlameProof coatings are capable of withstanding extreme environments of spacecraft, satellites, military aircraft, and motor sports. It survives where other paints can't, shields & protects, maintains the finish, prevents rust & corrosion, and resists oils & solvents. For aircraft applications the typical use is on high temperature steel components such as exhaust & turbocharging systems. Excellent for use as a heat resistant and anti-corrosion coating on exhaust manifolds and turbine casings.

Flat Aluminum 16 oz. aerosol spray.....P/N 08-00713 ..... ---
Flat Black 16 oz. aerosol spray.....P/N 08-00714 ..... ---

THERMO-TEC HEAVY-DUTY SPRAY ADHESIVE

Thermo-Tec's Heavy-Duty Spray Adhesive is a fast-drying, quick-bonding, high temperature contact adhesive. Use it wherever you need a secure, long-lasting, easy-to-apply bond. It is available in a generous 16.75 oz. can.

P/N 08-01026 ..... ---

HI-HEAT COATING

Finish off a clean and well-protected Exhaust Insulating Wrap application. Will protect the wrap from abrasion and harmful liquid spills. Extra resins and binders toughen the surface, extend the life of wrap by protecting it from friction, and seal the pores to minimize the penetration of harmful liquids. The 11 oz. coating comes in black and aluminum colors.

Black .....P/N 08-06725 ..... ---
Aluminum .....P/N 08-06730 ..... ---

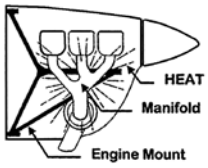
EXHAUST HEAT SHIELD

This heat shield is placed on exhaust where fuel lines, cable, etc. are close to exhaust and where heat may be a problem. Mounts with stainless radiator type clamp (not included). Fits exhaust pipes up to 2.5" diameter. Very popular on RV's and other homebuilt aircraft.

Single Unit.....P/N 08-00050 ..... ---
Double Unit .....P/N 08-00051 ..... ---

ENGINE MOUNT HEAT SHIELDS

Heat damaged O-470 & O-520 engine mounts are a definite problem area. You can easily protect these engine mounts from further damage with these heat shields. The aircraft manufacturers overlook providing heat protection in these areas when they designed and produced the aircraft. INSPECT ENGINE MOUNTS. Flaking paint, deterioration or pitting leads to cracking, and breakage – in other words, an UNSAFE CONDITION. If you want long-lasting protection from corrosion damage, the solution is install custom engine mount heat shields that are FAA & STC/PMA approved.



Avoid downtime and save money on airplane maintenance with this practical new device. The heat shields are built from an extremely durable 6061-T6 aluminum alloy and install in minutes. The complete kit includes installation hardware, instructions & copy of the Supplemental Type Certificate.

For Cessnas: Heat shield kit for 180, 180A-H, 180J, 180K, 182, 182A-R ..... P/N 08-01660 ..... ---
Heat shield kit 185A-E,A185F. Fits Standard and 3 bladed mounts.
P/N 08-00767 ..... ---
Replace. Intake Shields (heavy duty) PMA'd.. P/N 08-00769 ..... ---

CESSNA C-180/182 HEAT SHIELD KIT

Heat related corrosion caused by the exhaust system in the bed tubes and diagonal tubes of Cessna 180/182 engine mounts has been discovered on most models. Loree Air, Inc. designed and built the first set of heat shields in 1987. They were flight tested for three years and found to stop all damage from that heat source. The heat shield kit is now FAA approved and ready for installation on your aircraft. The kit, includes all the hardware, instructions and documentation.....P/N 05-12279 ..... ---

CARBURETOR INTAKE ASSEMBLIES (HEAT BOXES)

50256

P/N A40599 for Continental A-65 through C-125. Also fits Lyc. 0-235, 0-290, 0-320 engines with MA3SPA, MA4SPA carburetors.
Complete assembly includes heat box, filter, gaskets. studs and pins. **Not for Certified Aircraft, Homebuilts Only.**

Component	Part No.	Price
Heat Box	50256	---
Filter	A40599	---
Gasket	35923	---
Studs (4 required)	24306	---
Pins (4 required)	24308	---
Bottom Carb. Gasket	21323	---
A40522 Assembly	08-01300	---

CARBURETOR HEAT BOX CESSNA 150

Used on Cessna 150. Also fits Cessna 120, 140, and PA-22 Tripacer. Order filter, gaskets, studs & pins separately. Not FAA/PMA Approved. P/N 641534..... ---
Cable 'B' Nut .....P/N 05-16245 ..... ---

Heat Box for Cessna 170 - Similar to P/N 641534 above, but larger
P/N 08-01625 ..... ---

HEAT BOX FOR MA4-5 CARBURETORS

Similar to Cessna 170 box. Fits Lyc. 0-360, 0-470, etc. Uses brackett BA-5110 filter.

CARBURETOR INTAKE BOX BRACKET FOR CESSNAS

This carburetor intake box bracket mounts on top of the heat box and attaches to the engine to provide support for the heat box. Fits Cessna 150.
P/N 08-01305 ..... ---

CARBURETOR HEAT BOX REPAIR KITS

Prevent carburetor heat box cracking - a common problem on Cessna 150 aircraft and Cont. O-200 engine. Kit consists of actuating shaft, 2 bearing assemblies and arm. Kit no. FG100 fits Cont. 0-200-A, B, C Engines. Kit No. FG105 fits Cont. 0-300-A, B, C, D, E engines.

Model FG100 .....Kit No. 08-01309 ..... ---
ModelFG105 .....Kit No. 08-01310 ..... ---

ECONOMY CARB HEAT BOX REPAIR KITS

These kits include new shaft & bearings.
Kit for Cont. C-85, C-90, 0-200 Engine
P/N 07-00110 ..... ---
Kit for Cont. C-145, 0-300 Engine
P/N 07-00120 ..... ---

Requires FAA form 337 for installation on certified aircraft

CARB HEAT BOX ARM HOLE REPAIR KIT

Use this kit to repair an elongated hole in the carburetor heat box actuating arm. Kit comes complete with new bolt and attaching hardware made of stainless steel.....P/N 07-00130 .....

CARBURETOR INDUCTION MANIFOLD (INTAKE SPIDER)

For O-200 engine .....P/N 35145A-1..... ---
For A-65,C-75,C-85 & C-90 engines.
P/N 35145 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RAPCO REPLACEMENT EXHAUST GASKETS

High quality, economical stainless and copper beaded gaskets. Extra thick spiral wound style available “Blow Proof”

	Style	RAPCO P/N	Use As Replacement For: OEM P/N	Airborne P/N	Superior P/N	Use on These Engine Models	Part No.	Price Each
CONTINENTAL	Solid	RA630365	630365	N/A	SA630365	IO-360-A, C, D, G, H, J, K	08-05215	---
	Spiral Wound	RA970	N/A	970	N/A	IO-360-A, C, D, G, H,J, K TSIO-360-A, B	08-05270	---
	Solid	RA632837	632837 21493	157	SA 632837	A-65, A-75,C-85-12F, C-90-8F,12F, 14F, -16F,E-165,E-185,E-225,O-200-A,B,O-300-A,C,D,O-470-A,E,J E-165, E-185, E-225O-200-A, B, O-300-A, C, DO-470-A, E, J	08-05237	---
	Spiral Wound	RA627429	627429	999	SA 627429		08-05229	---
	Spiral Wound	RA628260	628260	972	SA628260	O-470-B, G, K, L, M,P, R, S, U,IO-470-D, U, V, TSIO-470-B TSIO-520-B, C, D GTSIO-520-C, D	08-05260	---
LYCOMING	Solid	RA75118	75118 73720 67196 77611	160	N/A	0-290,0-320,IO-320,0-340,0-360,HO-260-B,IO-360-A,-B,-C,HIO-360-A,-B-C,V0-435,TVO-435,G0-480,GSO-480,ISGO-480,O-540-A,-B,-E,-G,IO-540-A,-C,-D,-G,-J,-K,IG0-540-A,IGS0-540-A,10-720-A	08-05218	---
	Spiral Wound	RA77611	77611	1000	SL77611		08-05211	---
	Spiral Wound	RALW15486	LW15486	971	N/A		08-05286	---
	Solid	RA985	3503			R-985-AN-1,-3,-4,-6,-6B,-10,12,-12B,-14B	08-64452	---

REPLACEMENT GASKET FOR WOODWARD GOVERNORS

Part Name	Approved Replacement for Part No.	Model Eligibility	Part No.	Price
Propeller Governor Gasket	Woodward Gov. 206684 Pratt & Whitney 3039526	PT6A-20/20A/-20B/-21/-25C/-27/-28/-34/ -34AG/-34B/-36/-38/-41/-42/-42A/-60A/ -60AG/-61/-67A/-67AF/-67AG/-67B/ -67D/-67R/-67T/PT6A-45A/-45B/-45R/ -65B/-65AG/-65AR/-65R/-114/ -114A/ -135/-135A	08-06264	---
Propeller Governor Gasket	Woodward Gov. 206685 Pratt & Whitney 3118953-01	PT6A-6/-6A-/6B/-11/-11AG/-15AG/-20/-20A/-20B/-34/ -34AG/-34B/-36/-38/-41/-42/-42A/-45/-45A/-45B/ -45R/-60A/-60AG/-61/-65B/-65R/-67/-67A/-67AF/ -67AG/-67B/-67D/-67R/-67T/-110/-112/-121	08-07154	---

2577256 PRECISION AIRMOTIVE GASKET PEX-1

Gasket part number 365533 is no longer available from Precision Airmotive. The new gasket, part number 2577258 is available and should be used in place of 365533.

P/N 07-01312 ..... ---

TCM VACUUM PUMP GASKET 653487

TCM vacuum pump gasket 653487. This is for the Continental 0200 and the 0470.

P/N 08-00297 ..... ---

SILICONE VALVE COVER GASKETS

These reinforced silicone with fiberglass valve cover gaskets are (.093) 3/32. The torque needed is 25/27 inch pounds. Won’t sponge or tear & come with a lifetime warranty from the manufacturer.....P/N 05-11931 ..... ---

THESE GASKETS ARE NOT FAA APPROVED.

LYCOMING ASSEMBLY DRIVE GASKET SL73818

Lycoming Assembly Drive Gasket SL73818. Replacement for Textron Lycoming P/N 73818.

P/N 08-00306 ..... ---

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REAL GASKETS

REAL PREMIUM SILICONE VALVE COVER GASKETS

REAL are twice as thick as typical gaskets and have been hot oil and dry heat tested at 300°F. Only REAL gaskets seal uneven surfaces, eliminate corrosion, and reduce maintenance costs. They may be reused, are installed dry, and maintain screw torque. Indefinite shelf life. Highly recommended by Rutan Aircraft Factory.

75906 530162 17727 632310 632459 67193 71450 532451 534857

Part No.	Model No.	Product	Description	Price
08-13810	RG-08527-10	Valve Cover Gaskets	Package of 10 - PMA Approved. Fits Models: Ken Royce 90-5G, 110-7F, 110-7G. Le Blond Engine 85-5F, 90-5F.	---
08-13876	RG-117236-18	Valve Cover Gaskets	Package of 18 - PMA Approved. Fits Models: Wright Early R-1820-40, R-1820-60, R-1820-70, R-1820-87, R-1820-95, R-1820-97 (4 Holes), R-2600-20, R-2600-22, R-2600-29A, R-2600-35, R-3350-23, R-3350-23A, R-3350-57, R-3350-59	---
08-13801	RG-1302-42-4	Valve Cover Gaskets	Set of 4 - de Havilland Gipsy	---
08-13879	RG-138861-18	Valve Cover Gaskets	Package of 18 - Fits Models: Wright Late R-1300, R-1820-55, R-1820-66, R-1829-56, R-1829-71, R-1829-72W, R-1829-76, R-1829-80, R-1829-86 (6 Holes).	---
08-13864	RG-139203-36	Valve Cover Gaskets	Package of 36 - PMA Approved. Fits Models: Pratt & Whitney R-2800-CB Series.	---
08-13814	RG-1843-18	Valve Cover Gaskets	Package of 18 - PMA Approved. Fits Models: Lycoming R-680 Series.	---
08-13872	RG-2677-18	Valve Cover Gaskets	Package of 18 - PMA Approved. Fits Models: 975-11, Whirlwind (4 Holes).	---
08-13874	RG-2767-18	Valve Cover Gaskets	Package of 18 - Fits Models: Wright J6-5, J6-7, J6-9 (2 Holes).	---
08-13806	RG-30106-14	Valve Cover Gaskets	Package of 14 - PMA Approved. Fits Models: Jacobs L-6.	---
08-13808	RG-4331-14	Valve Cover Gaskets	Package of 14 - PMA Approved. Fits Models: JACOBS R-755 Series.	---
08-13804	RG-5171-18	Valve Cover Gaskets	Package of 18 - Fits Models: Huoasi Model 6, Nanchang CJ6A, Yak Model 18.	---
08-13869	RG-7926-14	Valve Cover Gaskets	Package of 14 - Fits Models: Warner 165-185 For 4 cylinders.	---
08-13862	RG-88962-18	Valve Cover Gaskets	Package of 18 - PMA Approved. Fits Models: Pratt & Whitney R-1340, R-1830, R-200 to R-2000, R-2800 (3 Holes).	---
08-13822	RG-90560-18	Valve Cover Gaskets	Package of 18 - PMA Approved. Fits Models: Pratt & Whitney R-985 Series, Wasp Jr. (4 Holes).	---
08-13811	RG-08527	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: Ken Royce 90-5G, 110-7F, 110-7G. Le Blond Engine 85-5F, 90-5F.	---
08-13877	RG-117236	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: Wright Early R-1820-40, R-1820-60, R-1820-70, R-1820-87, R-1820-95, R-1820-97 (4 Holes), R-2600-20, R-2600-22, R-2600-29A, R-2600-35, R-3350-23, R-3350-23A, R-3350-57, R-3350-59.	---
08-13802	RG-1302-42	Valve Cover Gaskets	1 each -de Havilland Gipsy	---
08-13880	RG-138861	Valve Cover Gaskets	1 each - Fits Models: Wright Late R-1300, R-1820-55, R-1820-66, R-1829-56, R-1829-71, R-1829-72W, R-1829-76, R-1829-80, R-1829-86 (6 Holes).	---
08-13865	RG-139203	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: Pratt & Whitney R-2800-CB Series.	---
08-00782	RG-14724	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: Franklin 6A8-215, B8F, B9F.	---
08-01322	RG-17727	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: Franklin 6A-350; 4A-235; 6A4-150-B3, -B4, -B5, -B6; 6A4-165-B3, B4, B6; 6A4-200-C6; 6AS-350; 6AS-335.	---
08-13816	RG-1843	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: Lycoming R-680 Series.	---
08-13796	RG-20254	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: Continental W-670 Series.	---
08-13795	RG-20254-14	Valve Cover Gaskets	1 package of 14 - PMA Approved Fits Models: Continental W-670 Series.	---
08-13875	RG-2676	Valve Cover Gaskets	1 each - Fits Models: Wright J6-5, J6-7, J6-9 (2 Holes).	---
08-13871	RG-2677	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: Wright 975-11, Whirlwind (4 Holes).	---
08-13807	RG-30106	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: Jacobs L-6.	---
08-13809	RG-4331	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: JACOBS R-755 Series.	---
08-13784	RG-45483	Valve Cover Gaskets	1 each - Fits Models: Lycoming O-145 Series.	---
08-13805	RG-5171	Valve Cover Gaskets	1 each - Fits Models: Huoasi Model 6, Nanchang CJ6A, Yak Model 18.	---
08-13870	RG-7926	Valve Cover Gaskets	1 each - Fits Models: Warner 165-185.	---
08-13863	RG-88962	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: Pratt & Whitney R-1340, R-1830, R-200 to R-2000, R-2800 (3 Holes).	---
08-13823	RG-90560	Valve Cover Gaskets	1 each - PMA Approved. Fits Models: Pratt & Whitney R-985 Series, Wasp Jr. (4 Holes).	---
08-13815	RG-942	Valve Cover Gaskets	1 each - Fits Models: R-56 (4 Holes). Variants: KINNER R-5, R-53, R-55, R-56.	---
08-01321	RG-71450	Valve Cover Gasket (9 holes)	1 each - PMA Approved. Fits Models: Lycoming IO-540-B, E, M Series; TIO/LTIO-540-A.	---
08-01317	RG-534857	Valve Cover Gasket (8 holes)	1 each - PMA Approved. Fits Models: Continental IO-346, O-470, IO-470, IO-520, IO-550, TSIO-520-Series.	---
08-01316	RG-67193-SP	Valve Cover Gasket (8 holes)	1 each - PMA Approved. Fits Models: Lycoming IO-360, IO-540, IO-720, GO-480, TIVO-540, VO/GO-435, VO-540.	---
08-07384	RG-76036	Valve Cover Gasket (8 holes)	1 each - PMA Approved. Fits Models: Lycoming TO-360-C, TO-360-F, TIO/TIGO-541.	---
08-01320	RG-532451	Valve Cover Gasket (7 holes)	1 each - PMA Approved. Fits Models: Continental E-165-2, E-185, E-225, O-470-A, O-470-E, O-470-J, IO-470-J, IO-470-K.	---
08-01315	RG-530162	Valve Cover Gasket (6 holes)	1 each - PMA Approved. Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300.	---
08-17184	RG-530928-NI	Lifter Cover Gasket	Continental: A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300	---
08-01314	RG-75906-SP	Valve Cover Gasket (6 holes)	1 each - PMA Approved. Fits Models: Lycoming O-235, O-290, O-320, IO-320, O-360, IO-360, HIO-360, O-540, IO-540, TIO-540-CIA.	---
08-01319	RG-632459	Valve Cover Gasket (5 holes)	1 each - PMA Approved. Fits engines: Continental TSIO-520-Series; GTSIO-520-C,D,F,H,K,L,M,N; IO-550-G	---
08-01318	RG-632310	Valve Cover Gasket (4 holes)	1 each - PMA Approved. Fits Models: Continental IO-360, TSIO-360, LTSIO-360.	---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

Part No.	Model No.	Product	Description	Price
08-13765	G-IV-A2	Valve Cover Gasket - Spanish Model	Set of 4. Bucker Tigre	---
08-13769	RG-533355	Oil Filler Cap Gasket	1 each - PMA Approved. Size: 1/8 x 2 5/16 x 1 1/2 Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, E-185, E-225, GO-300, IO-346, IO-360, IO-470, IO-470-J, IO-470-K, IO-520, IO-550, O-200, O-300, O-470, O-470-A, O-470-E, O-470-J, LTSIO-3	---
08-13777	RG-535823	Oil Filler Cap Gasket	1 each - PMA Approved. Size: ID 1 1/8 x OD 1 3/4 Thickness 1/8 Fits Models: Continental IO-346, O-470, IO-470, IO-520, IO-550, TSIO-520-Series.	---
08-13773	RG-633240	Oil Filler Cap Gasket	1 each - PMA Approved. Size: ID 1 1/2 x OD 2 5/16 Thickness 1/16 Fits Models: Continental E-185, E-225, IO-470-J, IO-470-K, IO-346, IO-360, IO-520, IO-550, O-470, IO-470, O-470-A, O-470-E, O-470-J, LTSIO-360, TSIO-360, TSIO-520-Series.	---
08-13778	RG-642892	Oil Filler Cap Gasket	1 each - PMA Approved. Size: 1/8" X 1-1/2" X 2-5/16" Fits Models: Continental IO-360, TSIO-360, LTSIO-360.	---
08-13786	RG-225	Fuel Cap Gasket	1 each - Size: 2 1/4 OD x 1 3/8 ID 1/8 thickness for Cessna.	---
08-13787	RG-250	Fuel Cap Gasket	1 each - Size: 2 1/16 OD X 1 1/2 ID X 1/8 thickness for Piper.	---
08-13766	RG-2551	Fuel Cap Gasket	1 each - Made of nitrile. For Cessna 170. Size: 4 1/4 OD X 3 1/4 ID X 3/16 thickness.	---
08-13790	RG-5172	Fuel Cap Gasket	1 each - Fits Models: Yak.	---
08-13763	RG-G0001	Rocker Cover Gasket E-113C	Set of 2 - Aeronca	---
08-13867	RG-7601	Rocker Cover Gasket	1 each - Fits Models: Warner 145.	---
08-13799	RG-24335	Pushrod Tube Gasket	1 each - PMA Approved. Fits Models: Continental W-670 Series.	---
08-13818	RG-690-D	Pushrod Tube Gasket	1 each - PMA Approved. Fits Models: Lycoming R-680 Series.	---
08-13781	RG-18532-H	Top Cover Gasket - Helicopter	1 each - PMA Approved Size: 1/16 thick Fits Models: Franklin 4A-235, 6A4-150, 6A4-165, 6A4-200, 6AS-350, 6AS-335.	---
08-00783	RG-18532-A	Top Cover Gasket - Airplane	1 each - PMA Approved Size: 1/8 thick Fits Models: Franklin 6A4-145-A3, 6A4-150, 6A4-150-B3, 6A4-165-B3, 6A-350-C1/C2, 6V4-200 SERIES, 6V-335 SERIES, 6V-350-A/B, 6VS-335-A/B, 6VS-335-A1A/A1B, YO-335-5, O-335-5/5A/5B/6/6B.	---
08-13788	RG-300	Fuel Tank Cap Gasket	1 each - Size: 3 OD X 2 ID by 1/16 thickness for Piper.	---
08-13791	RG-753121	75 Fuel Tank Gasket	1 each - Fits Models: Stearman.	---
08-13768	RG-3577	Oil Sump Gasket	1 each - PMA Approved Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200.	---
08-00781	RG-10366	Oil Pan Gasket	1 each PMA Approved. Size: 1/16 thick. Fits Models: Franklin 6A4-145-A3, 6A4-150-B3, 6A4-165-B3, 6V4-178-B33, 6V4-200-C32/C33, 6V-335-A/B, 6A-350-C1/C2, 6A-335-B/B1, 6VS-335-A/B, 6VS-335-A1A/A1B.	---
08-13764	RG-G0014	Tappet Cover Gasket for E-113C	1 each - Aeronca	---
08-13800	RG-20268	Lifter Body Gasket	1 each - PMA Approved. Fits Models: Continental W-670 Series.	---
08-13803	RG-71294	Gipsy Rocker Cover Gasket	1 each - de Havilland Gipsy or Alpha Romeo radial engine	---
08-13621	RG-72059	Dipstick Tube Base Gasket	1 each - PMA Approved. Fits Models: Lycoming IO-320, IO-360, IO-540, IO-540-B, E, M Series, HIO-360, O-235, O-290, O-320, O-360, O-480, O-540, TIO/LTIO-540-A.	---
08-13820	RG-1111-C	Pushrod Tube Seal	1 each - FMA-PMA Approved. Fits Models: Lycoming R-680 Series.	---
08-13819	RG-1111-C-18	Pushrod Tube Seal	Package of 18 FMA-PMA Approved. Fits Models: Lycoming R-680 Series.	---
08-13798	RG-20266	Pushrod Tube Nut Seal	1 each - PMA Approved. Fits Models: Continental W-670 Series.	---
08-13797	RG-20266-14	Pushrod Tube Nut Seal	1 package of 14 - PMA Approved. Fits Models: Continental W-670 Series.	---
08-13783	RG-17864-1	Push Rod Tube Seal	1 each - PMA Approved. Takes 4 seals per cylinder. Fits Models: Franklin 4A-235, 6A4-150, 6A4-165, 6A4-200, 6AS-350, 6AS-335, 6A4-150.	---
08-13776	RG-534610-4	Push Rod Tube Seal	Set of 4 - PMA Approved. Fits Models: Continental IO-346, O-470, IO-470, IO-520, IO-550, TSIO-520-Series.	---
08-00779	RG-17794	Pushrod Tube Seal Lower	1 each - PMA Approved. Takes 2 per cylinder. Fits Models: Franklin 4A-235, 6A4-165, 6A4-200, 6AS-350, 6AS-335.	---
08-01327	RG-360PRT-6	Pushrod Tube Seal Kit - Six Complete Cylinders	6 Cylinders - PMA Approved. Real Gasket Corporation has received FAA-PMA approval for improved design pushrod tube seals for continental engines. The seals are designed to provide 37% more sealing area at the point of contact with the pushrod tube, and vector spring pressure by its beveled top and companion washer.	---
08-01323	RG-520PRT-6			---
08-01328	RG-360PRT-1	Pushrod Tube Seal Kit - One Complete Cylinder		---
08-01326	RG-520PRT-1			---
08-13779	RG-550GPR-1	Pushrod Tube Seal Kit - One Complete Cylinder	Real pushrod tube seal. RG-550GPR-1. PMA Approved.	---
08-13772	RG-200-D	Pushrod Tube Seal Kit - 1 Cyl for New Continental Cylinder	1 each - Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300.	---
08-13774	VSC-2	TCM 6-Cylinder 470/520/550 Spring Compressor Tool	1 each - Fits Models: Continental E-185, E-225, IO-346, IO-470, IO-470-J, IO-470-K, IO-520, IO-550, IO-550G, O-470, O-470-A, O-470-E, O-470-J, TSIO-520-Series, TSIO-520-BE.	---
08-13770	RG-200-RSW	Replacement Seal & Washer Kit for RG-200PR	1 Cylinder - FAA-PMA approved. Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300.	---
08-13771	101BR	Ultra Copper Silicon	1 each - Fits Models: Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300.	---
08-13793	RG-8-32-BPS-20	Baffle Seal Fastener - Aluminum Binding Post & Screw Kit	1 package of 20 pieces - A package of 10 pair (post and screw) = 20 pieces.	---
08-19047	RG-72812	Real Gasket Oil Sump Gasket or Oil Pan Gasket	Gasket is made of Interface Material-NI-2085 and is 1/16″ (0.062) thick. Fits: Lycoming Engines O, IO, TIO, LTIO, AEIO-540, TEO-540, IO-580, AEIO-580 Series FAA-PMA approved for the above engines	---

EP

GASKETS

TCM MAGNETO GASKET 649954

P/N 05-11920 ..... ---

TCM 649989 OIL COOLER GASKET

P/N 08-13252 ..... ---

FUEL PUMP GASKET - 649962

P/N 08-13567 ..... ---

PT-6 NOZZLE GASKET

PT-6 Nozzle Gasket. Replacement part for Pratt & Whitney 3029566.

P/N 05-15099 ..... ---

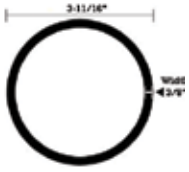
LYCOMING PROP GOVERNOR GASKET

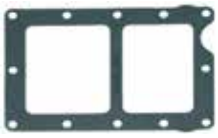
Propeller governor gasket for Lycoming 0-320 A & E Series engines .....P/N 72053 ..... ---

LW12681 LYCOMING MAGNETO GASKET

Lycoming Magneto Gasket model # LW12681. For Lycoming 0320 all letter designations EXCEPT the "H" series.

P/N 08-00285 .....---



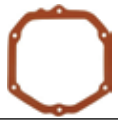
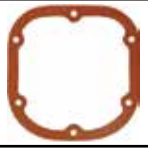


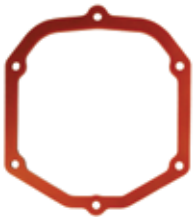
TCM OIL GASKETS

TCM 654555 Oil Cooler Gasket for Continental Engines .....P/N 06-02162 ..... ---

1/8 INCH SILICONE VALVE COVER GASKETS

Valve cover gaskets are manufactured from a silicone rubber compounded especially for lubricating oil resistance and low compression set. It has a recommended temp. operating range of –67 to 446 F and will remain flexible while operating in the noted temp. range. One of the biggest benefits of replacing the factory cork gaskets with the Silicone rubber gaskets is that they are reusable and are easy to work with and are 1/8" thick silicone rubber.

Image	OEM Part No.	Application	Part Number	Price
	75906-SP	Lycoming O-235, O-290, O-320, IO320, O-360, IO-360, HIO-360, O-480, O-540, IO-540	05-11181	---
	71450	Lycoming IO-540-B, E, M series, TIO/LTIO-540-A	05-11182	---
	67193	Lycoming IO-360, VO/GO-435, GO-480, IO-540, VO-540, TIVO-540, IO-720	05-11183	---
	632310	Continental IO-360, TSIO-360, LTSIO-360	05-11184	---
	632459	Continental GTSIO-520 series, IO-550-G, TSIO-520-BE	05-11185	---
	530162	Continental A-65, C-75, C-85, C-90, C-125, C-145, O-200, O-300, GO-300	05-11186	---



"O" SERIES LYCOMING VALVE COVER GASKETS

Note: 08-05882 is similar to 67193 and RG-67193 but not FAA Approved for Certified Aircraft. 08-01187 is similar to 75906 and RG-75906 but not FAA Approved for Certified Aircraft.

These homebuilder's Lycoming valve cover gaskets replace the original cork gaskets which come standard on Lycoming 0-235, 0-320 and 0-360 engines. These new gaskets are molded from high temperature silicone rubber and do not harden over time so they can be re-used again and again. This hi-tech silicone rubber offers a much lower compression set, so it is superior at maintaining an oil-tight seal for the life of the engine. NOT FAA approved. For experimental aircraft only.

P/N 08-01187 ..... ---

ANGLED VALVE "IO" SERIES LYCOMING VALVE COVER GASKETS

These gaskets are for the fuel injected "IO" series, sometimes referred to as the Angle Valve cylinder Lycoming, as well. these gaskets are molded from the same high-temperature silicone rubber as the "O" series gaskets above, and do not harden over time, so they can be reused again and again.This hi-tech silicone rubber offers a much lower compression set, so it is superior at maintaining an oil-tight seal for the life of the engine. They are not FAA approved and are not manufactured under a PMA. These are similar to Lycoming part number 67193 used on Angled valve Lycoming engines IO-360, IO-540, IO-720..... P/N 08-05882 ..... ---

EP

EXHAUST MANIFOLD NUTS

Part No.	Thread Size	Type	Engine Application	Price
21247	1/4-28	Brass	Cont., E185, IO470, IO520, GTSIO520 , LTSIO520, TSIO520, IO550, IOF5550, TSIO550, TSIOF550, TSIOL550	---
22022	5/16-24	Brass	Continental: A-65, C-75 thru C-90, O-200, O-300	---
STD1410	5/16-18	Steel	Lycoming	---

GASCOLATOR GASKETS

Gascolator Gasket, Manufactured from fuel resistant "Buna Rubber" material.

Description	Part No.	Price
2-1/4" OD. x 1-3/4" ID x 1/16" Buna and Cork material	05-11188	---
2" OD. x 1-3/8" ID x 1/8" Buna Rubber material	05-11190	---
2-1/8" OD. x 1-1/2" ID x 1/8" Buna Rubber material	05-11189	---
2-1/4" OD. x 1-3/8" ID x 1/8" Buna Rubber material	05-11187	---
2-1/4" OD. x 1-3/8" ID x 3/16" Buna Rubber material	05-11191	---

OIL COOLER GASKET SETS

Our Part No.	Continental Part No.	Price ea.
08-76510	76510	---

BLO-PROOF EXHAUST GASKETS

These gaskets are manufactured in a 1-piece design in 7/64" thick steel. They have a split metal inner ring which provides an absolute seal and they are guaranteed not to blow off. Engine manufacturer's parts.
Continental P/N 627429 for all A, C and E Series ..... **--- Ea.**
Continental ..... P/N 628260 for 0-470-R ..... **--- Ea.**
Lycoming P/N 77611 for 4 & 6 Cylinder Engines..... **--- Ea.**

EXHAUST GASKETS

Continental P/N 21493 (now P/N 632837 stainless steel)

Cont.#21493 for A-65 to 0-300.....P/N 08-05237 ..... **--- Ea.**
Cont. #632837 Stainless Steel.....P/N 08-13232 ..... **--- Ea.**
Lycoming 0-320 except h series .....P/N 77611 ..... **--- Ea.**

AIRBORNE BLO-PROOF GASKETS

2 gaskets used per cylinder, with raised beads interlocked facing the exhaust stack flange. Eight required for 4 cyl. engine, 12 for 6 cyl. engine.

Engine Model Number	Airborne P/N (Use 2/Cyl.)	Price
A-65 Series, C-85 Series, C-90 Series, O-200 Series, O-300 Series, GO-300 Series, E-185 Series, E-225 Series, O-470-A, -E, -J, IO-470-J, -K	06-02098	---

STEEL EXHAUST STACK FLANGES

MILD STEEL

Lycoming 0-235 to 0-540 .P/N 33021 ..... **--- Ea.**

STAINLESS STEEL

Continental A & C Series .P/N 33101 ..... **--- Ea.**
Continental IO-470 thru IO-520.....P/N 33103 ..... **--- Ea.**
Lycoming 0-235 thru IO-360 .....P/N 33102 ..... **--- Ea.**
Lycoming IO-540 .....P/N 33104 ..... **--- Ea.**

LYCOMING STUDS

Description	Part No.	Price
25-22 Lycoming Stud-.250-20 X 2.75 LONG	07-18027	---
25-8 Lycoming Stud-.250-20 X 1.00 LONG	07-14785	---
25-8-P03 Lycoming Stud-.250-20 X 1.00 LONG	07-14786	---
25C-10 Lycoming Stud-.250-20 X 1.25 LONG	07-14787	---
25C-10-P03 Lycoming Stud-.250-20 X 1.25 LONG	07-14788	---
25C-10-P07 Lycoming Stud-.250-20 X 1.25 LONG	07-14789	---
25C-11 Lycoming Stud-.250-20 X 1.38 LONG	07-14790	---
25C-11-P03 Lycoming Stud-.250-20 X 1.38 LONG	07-14791	---
25C-11-P07 Lycoming Stud-.250-20 X 1.38 LONG	07-14792	---
25C-12 Lycoming Stud-.250-20 X 1.50 LONG	07-14793	---
25C-12-P03 Lycoming Stud-.250-20 X 1.50 LONG	07-14794	---
25C-14 Lycoming Stud-.250-20 X 1.75 LONG	07-14795	---
25C-14-P03 Lycoming Stud-.250-20 X 1.75 LONG	07-14796	---
25C-14-P12 Lycoming Stud-.250-20 X 1.75 LONG	07-14797	---
25C-16 Lycoming Stud-.250-20 X 2.00 LONG	07-14798	---
25C-18 Lycoming Stud-.250-20 X 2.25 LONG	07-14799	---
25C-19 Lycoming Stud-.250-20 X 2.38 LONG	07-14800	---
25C-19-P03 Lycoming Stud-.250-20 X 2.38 LONG	07-14801	---
25C-20 Lycoming Stud-.250-20 X 2.50 LONG	07-14802	---
25C-21 Lycoming Stud-.250-20 X 2.63 LONG	07-14803	---
25C-21-P03 Lycoming Stud-.250-20 X 2.63 LONG	07-14804	---
25C-22 Lycoming Stud-.250-20 X 2.75 LONG	07-14805	---
25C-22-P03 Lycoming Stud-.250-20 X 2.75 LONG	07-14806	---
25C-22-P07 Lycoming Stud-.250-20 X 2.78 LONG	07-14807	---
25C-29 Lycoming Stud-.250-20 X 3.63 LONG	07-14809	---
25C-31 Lycoming Stud-.250-20 X 3.88 LONG	07-14810	---

EXHAUST STUDS FOR CONTINENTAL ENGINES

These high quality exhaust/ engine studs produced from corrosion resistant 321 stainless steel in 5/16-18" or 5/16-24" standard thread size with a length of 1.5" are a direct replacement for the TCM Continental part number 402-151 stud. FAA/PMA approved for the Continental engines C-75, C-85, C-90, O-200 series engines, and o-300 (early) series engines .....P/N 08-07282 ..... ---
Stud for Continental Engines O-470, IO-470 (1/4"x20-1/4"x28)
P/N 08-07281 ..... ---

STAINLESS STEEL EXHAUST STUDS FOR LYCOMING ENGINES

Produced from corrosion resistant 321 in 5/16 x 18 standard thread size and are a direct replacement for the Lycoming part number 31C12 stud. Stop stud corrosion and rust out problems, stop expensive cylinder repair costs cause by broken studs, allow easy removal of exhaust systems for gasket replacement or inspection, but does not feature a safety wire hole (refer to p/n 08-06780 for safety wire hole feature). FAA approved for all Lycoming engines from 0-235 through 0-540.
CAD Plated Steel with out Safety Wire Hole ..... P/N 08-06279..... ---
Stainless Steel With safety wire hole feature ..... P/N 08-06780..... ---

STA-FLATZ \ CLAMP

Machined from billet 6061 aluminum and finished with gold anodize. This will reduce your chance of induction leaks, especially turbo charged engines! Experimental only. Not FAA approved..
P/N 08-13906 ..... ---

EP

EXHAUST INSULATING PRODUCTS

EP

HIGH VELOCITY EXHAUST JACKET

An innovative way to insulate and block radiant heat. Cover the tubes vertically allowing for a consistent fit. The fit allows the exhaust system to expand as it comes up to operating temperatures without restrictions and provides air space for added insulation. Uses Thermal Conduction Technology (TCT), developed by Thermo-Tec, and can be applied with the headers in the vehicle.

4–6 cyl. kit .....P/N 08-00597 ..... ---
8 cyl. kit .....P/N 08-00598 ..... ---

SPARK PLUG WIRE HEAT SHIELD

The ultimate protection for spark plug wires and boots from conductive and radiant heat. The dual-purpose sleeve has a surface that reflects over 90% of radiant heat, while the inside silica-based fabric prevents conductive heat from penetrating ..P/N 08-00612 .....

TURBO KIT

Designed to protect, improve performance, and eliminate turbo lag of a turbo charger. Fits a wide variety of turbines. The custom cut-to-fit kit comes with an excessive amount of material to cover turbos from the smallest automotive application to heavy-duty truck applications.

4 cylinder kit .....P/N 08-00613 ..... ---
6–8 cylinder kit .....P/N 08-00614 ..... ---

MUFFLER/CAT HEAT SHIELD KIT

The 40"x 24" mylar Heat Shield is made up of woven silica with a flexible mylar finish. Can be installed between the catalytic converter, muffler, or any other component to reflect radiant heat away from the undercarriage of the car. The kit includes all necessary fasteners.

P/N 08-00616 ..... ---

HEAT TERMINATOR ULTRA-LITE

Made of the highest-quality insulating materials available today. The material is made of a highly-textured aluminum composite surface on one side, with a high-temperature silica felt center and a durable mylar composite facing. Uses Thermal Conduction Technology (TCT), developed by Thermo-Tec.

8"x 12" .....P/N 08-00617 ..... --- 10"x 18"....P/N 08-00618 ..... ---
18"x 18" ....P/N 08-00619 ..... --- 18"x 24"....P/N 08-00620 ..... ---
24"x 24" ....P/N 08-00621 ..... --- 24"x 36"....P/N 08-00622 ..... ---

STARTER HEAT SHIELD

Starters take in a lot of damaging heat that destroys the windings of the starter & solenoid. The Starter Heat Shield will reflect over 90% of radiant heat, adding life to the starter and assuring reliable starts. The Starter Heat Shield is a universal kit that fits all starters.....P/N 08-00611 .....---

THERMO SHIELD

Thermo-Shield protects hoses & wires from radiant heat. Used in applications where it is difficult or not practical to disconnect one end of the hose or wire. The adhesive-backed composite construction tape can easily be wrapped around the hose or wire to make a clean, professional appearance. 15"x 1.5" roll.

P/N 08-00602 ..... ---

THERMO–FLEX

Thermo-Flex Aluminum is a composite heat shield material with unlimited uses. The material is manufactured with a combination of materials to provide abrasion-resistance, thermal insulation, and physical containment of hoses and wiring. The combination of aluminum, silica, and stainless steel is combined to produce a sleeving that is flexible, lightweight, and strong. The aluminum-silica combination can be slit for applications such as wire looms or hose covering without disconnecting the ends of the wire or hoses. Thermo-Flex Aluminum can withstand extreme temperatures of up to 750°F. Packaged in 10 ft. lengths.

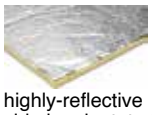
5/8" .....P/N 08-00623 ..... --- 1.25".....P/N 08-00626 ..... ---
0.75" .....P/N 08-00624 ..... --- 1.5".....P/N 08-00627 ..... ---
1" .....P/N 08-00625 ..... --- 3".....P/N 08-00628 ..... ---

COOL-IT PLUG WIRE SLEEVES

This unique spark plug & ignition wire protector comes in five sporty colors; red, orange, blue, black & natural. These dual-purpose sleeves enhance performance, reduce misfires, extend plug wire life and will not react with petroleum products. The double-wall construction keeps the wire and boot cooler in a high-temperature engine. Its universal size fits most boots, is easy to install & non-flammable.

6-Pack .....P/N 08-01030 ..... ---

COOL-IT MAT



Use the Cool-It Mat to battle excessive heat and noise that penetrate the driver compartment through the firewalls and floorboards. It is also perfect in doors, under hoods, and above transmission housings. The highly-reflective mylar reflects heat away from surfaces, while the foil side is orientated away from the heat source to conduct any penetrating heat across its surface thus providing the ultimate in heat protection. The silica blanketing is a duel-density composite and is the main sound insulator. It is easy to trim and can be applied with the push-in fasteners provided or any weather strip adhesive .....P/N 08-00610 ..... ---

THERMO–SLEEVE

Lamination of a high-temperature fabric to a highly-reflective foil is the makeup of Thermo-Sleeve, which provides protection from radiant heat for hoses and wires. Thermo-Sleeve's ultra light-weight construction provides more insulating than traditional bulky rubber-coated fiberglass. The aluminized sleeving reflects over 90% of radiant heat, and is fireproof & oil resistant. Comes packaged in 12-ft lengths, and sold in 5 different inside diameter sizes.

12' 1/2" ID.....P/N 08-00605 ..... ---
12' 1" ID.....P/N 08-00606 ..... ---
12" 1-1/2' ID.....P/N 08-00607 ..... ---
12' 2" ID.....P/N 08-00608 ..... ---
12" 2-1/2" ID .....P/N 08-00609 ..... ---

HEAT BARRIER - ADHESIVE BACKED

Aluminized Heat Barrier is made up of woven silica with a flexible aluminized finish. The highly reflective surface of the material is capable of withstanding radiant temperatures in excess of 2000°F. The adhesive backed composite construction material can easily be applied to any surface or wrapped around a hose or wire to make a clean professional appearance. Note: Clean surface before applying. Adhesive is rated up to 300° F. Don't apply to any parts of exhaust system. This product is designed to block radiant heat only!

12" x 12".....P/N 08-00630 ..... ---
12" x 24".....P/N 08-00600 ..... ---
24" x 50 foot Roll.....P/N 08-07660 ..... ---

HEADER MANIFOLD BLANKET

The Header Manifold Blanket provides excellent heat-retention for exhaust headers and manifolds. This flexible heat shield simply clips into place on the upper portion of the header. The fabric side of the material should be facing the heat source, and the aluminized side facing away, offering protection from abrasion and harmful liquid spills. Available in two sizes: (2) 20" by 24" blankets for V6 & V8 applications, and (1) 36" x 40" blanket for straight 6 & 4 cylinder engines.

20"x24" .....P/N 08-00603 ..... ---
36"x40" .....P/N 08-00604 ..... ---

GRAPHITE BLACK WRAP

Traditionally, high-heat coating spray had to be applied to the exhaust wrap to color it black. Now new Graphite Black Wrap eliminates the process of coating the wrap with its patented Thermal Conduction Technology (TCT) high-heat color pigment. Graphite Black Wrap is available in 2" widths, in 50-ft rolls.

Size	Part No.	Price
1" x 15	08-11153	---
1" x 50	08-11021	---
2" x 15	08-11154	---

Size	Part No.	Price
2" x 25	09-05231	---
2" x 50	08-00596	---
2" x 100	08-11023	---

GENERATION II COPPER HEADER WRAP

Generation II Copper Header Wrap uses a proprietary coating developed by Thermo-Tec; improved Thermal-Conduction-Technology (T-C-T). Creates more horsepower & reduces underhood temps, increases exhaust scavenging, withstands continuous heat up to 2000°F, contains no asbestos. Sold in 1" or 2" wide, 50 ft rolls with low profile 1/16" thickness.

1"X50.....P/N 08-11031 ..... ---
2"X50.....P/N 08-11032 ..... ---

THERMO-TEC CARBON FIBER EXHAUST INSULATING WRAP

Produced utilizing pulverized Lava rock called basalt. It is extremely pliable, resistant to discoloration and can withstand 2000 degrees Fahrenheit in direct continuous contact.

1"X50.....P/N 08-13902 ..... ---
2"X50.....P/N 08-13903 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

EXHAUST INSULATING WRAP

The original Exhaust Insulating Wrap was developed over 14 years ago by Thermo-Tec. Exhaust Insulating Wrap is an innovative way to create more horsepower and reduce under-hood temperatures.Wrapping headers maintains hotter exhaust gases that exit the system faster through decreased density. Increased exhaust scavenging is produced, along with lower intake temperatures. Exhaust Insulating Wrap withstands continuous heat up to 2000°F, and contains no asbestos. Thermo-Tec exhaust wrap will not over-insulate a system when properly installed due to a proprietary coating developed by Thermo-Tec -- Thermal Conduction Technology (TCT) -- that conducts heat across the wrap's surface. This coating controls heat build-up and dissipation. The Header Wrap is sold in 2" wide, 50'rolls with a low profile 1/6" thickness.

Size	Part No.	Price
1" x 15	08-11151	---
1" x 50	08-11001	---
2" x 15	08-11152	---

Size	Part No.	Price
2" x 25	09-05230	---
2" x 50	09-41600	---
2" x 100	08-11003	---

EXHAUST WRAP KITS

Now you can get everything you need for a complete, professional installation of our Exhaust Insulating Wrap, all in one package.Kits include Exhaust Insulating Wrap, Hi-Heat Coating and Snap Strap; available in Black and Original.

2" Original, 1 Roll.....P/N 08-07204 ..... ---
2" Original, 2 Rolls.....P/N 08-07205 ..... ---
2" Black, 1 Roll .....P/N 08-07206 ..... ---
2" Black, 2 Rolls.....P/N 08-07207 ..... ---

CLAMP ON HEAT SHIELDS

Flexible clamp on pipe heat shield blocks over 95% of the damaging radiant heat of the exhaust.Provides the ultimate in protection. The kits come complete with all clamps and new stainless stand offs. Installs in minutes. Incorporate Thermo-Tec's proprietary coating technology developed by Thermo-Tec, Thermal Conduction Technology.

6"X 1'.....P/N 08-07073 ..... ---
6" X 2'.....P/N 08-07074 ..... ---

SNAP STRAPS

The multi-purpose stainless steel Snap Straps are used to secure the Exhaust Insulating Wrap -- and more. The high-temperature stainless steel straps have a narrow profile to fit tight spots, and can be cut to the exact length needed. Snap Straps secure with easy-to-use slide-through fasteners.

9" 12 pack .....P/N 08-13150 ..... ---
18" 6 pack.....P/N 08-13160 ..... ---
9" 4 pack, 18" 2 pack .....P/N 09-05232 ..... ---

ALUMINIZED HEAT BARRIER STOPS UNWANTED HEAT TRANSFER

Keep heat where you want it with this hi-tech aluminized heat blanket. Thickness, 0.060". Furnished in 3 sizes.

18" x 20" .....P/N 09-05234 ..... ---
36" x 20".....P/N 09-05233 ..... ---
36" x 40".....P/N 08-06735 ..... ---

KEVLAR HEAT SHIELD

Can be used for various uses: As a header blanket, Improve driver comfort, Protect engines components, Continuous heat up to 1100 degrees F, and Reflects 90% of radiant heat up to 3000 degrees F.

* Size: 26" x 40" x .062"(thick) Sheet.....P/N 08-07162 ..... ---

KEVLAR MUFFLER COVER

Handles continuous temperatures up to 1100deg F. Reduces radiant heat inside vehicle. Dampens muffler noise and vibration. Includes stainless steel straps for installation. Neat attractive appearance and is abrasion resistant.....P/N 08-07201 ..... ---

PT-6 INSULATION BLANKET

PT-6 Insulation Blanket Pratt TSO 3011755. Replacement part for Pratt & Whitney 3011755.

P/N 05-15101 ..... ---

ZIRCOFLEX™ FLEXIBLE CERAMIC HEATSHIELD

A flexible ceramic heat shield material that offers superb thermal barrier performance at minimal weight and minimal thickness. A thin aluminum backed foil, it is lightweight at only 460g/m(2) and only 0.25mm thick. It is however, robust and easy to handle. It can be cut and installed by hand or machine, and is easily fixed in place using mechanical fasteners or high temperature adhesives. Each piece is 35.4" X 21.5" (900mm x 550mm.)

Ceramic Heatshield .....P/N 08-07214 ..... ---
Double sided adhesive tape attachment kit ..P/N 08-07215 ..... ---
Stainless Steel Strapping kit.....P/N 08-07216 ..... ---

ZIRCOFLEX I (SINGLE THICKNESS)

This is ZircoFlex® I in its single thickness (original) format. The material offers superb thermal barrier performance at minimal weight and minimal thickness. It is produced as a thin aluminum backed foil.

Description	Size	Part No.	Price
Zircoflex I Mini Roll	400mm x 100mm (Approx. 16" x 4")	08-07635	---
Zircoflex I Small Sheet	297mm x 210mm (Approx. 12" x 8")	08-07636	---
Zircoflex I Medium Sheet	550mm x 450mm (Approx. 22" x 18")	08-07637	---
Zircoflex I Small Sheet with Adhesive	297mm x 210mm (Approx. 12" x 8")	08-07646	---
Zircoflex I Medium Sheet with Adhesive	550mm x 450mm (Approx. 22" x 18")	08-07647	---
Zircoflex I Large Sheet with Adhesive	900mm x 550mm (Approx. 35" x 22")	08-07648	---

ZIRCOFLEX III (TRIPLE THICKNESS)

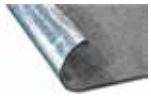
This is an engineered triple thickness ZircoFlex® format that offers yet more thermal performance coupled with significant rigidity when compared to the original ZircoFlex I® material. It is produced as an aluminum backed matrix.

Description	Size	Part No.	Price
Zircoflex III Large Sheet	900mm x 550mm (Approx. 35" x 22")	08-07645	---
Zircoflex III Small Sheet with Adhesive	297mm x 210mm (Approx. 12" x 8")	08-07653	---
Zircoflex III Medium Sheet with Adhesive	550mm x 450mm (Approx. 22" x 18")	08-07654	---
Zircoflex III Large Sheet with Adhesive	900mm x 550mm (Approx. 35" x 22")	08-07655	---

ZIRCOFLEX ACCESSORIES

Double Sided Adhesive Tape.....P/N 08-07215 ..... ---
Stainless Steel Attachment Kit .....P/N 08-07216 ..... ---

THERMO-GUARD FR



Thermo-Guard FR offers the best in heat and sound insulation. This lightweight, durable shield does everything: reduces sound, absorbs vibration, protects from radiant heat and provides an extra layer of insulating padding. The product features 100% synthetic fiber felt that provides sound and comfort control and high-tech foil heat barrier that blocks more than 90% of radiant heat.

48"x72" 1-Sided.....P/N 08-01028 ..... ---
48"x72" 2-Sided.....P/N 08-01029 ..... ---

EXPRESS SLEEVES

Express Sleeves are just the thing that our customers have been looking for. An new easy to use sleeving which is a combination of a high temperature insulation material to a highly reflective mylar foil with a Velcro closure. The sleeving is designed to provide maximum protection for wires, hoses, and cables from the very damaging effect of radiant heat with an easy application. Simply pull apart the material, wrap around the wire, and re-close the sleeving. Express Sleeves reflect over 90% of radiant heat, is fireproof and fire resistant, and just looks good. Express Sleeves come in 1 1/2" diameter in 3', & 12' lengths.

Size	Part No.	Price	Size	Part No.	Price
1-1/2" X 3"	09-02060	---	1/2" x 3	08-07202	---
1-1/2" X 12"	09-02061	---	1/2" x 12	08-07203	---

EP

APS SILICONE VALVE COVER GASKETS

APS FAA/PMA Approved silicone rocker gaskets are reusable and remain flexible from -85 to + 401° F. They are resistant to leaking, deterioration by weathering, and petroleum-base lubricating oil.

CMI Engines Eligibility	Model No.	Part No.	Price
A40, A50, A65, A70, A75, A80, C75, C85, C90, C125, C145, O-200, O-300, GO-300 Series	APS-655706-S	07-20087	---
E165, E185, E225 Series	APS-653193-S	07-20083	---
IO-240, IO/TSIO-360 Series	APS-655704-S	07-20085	---
O-470-G,K,L,R,S,U; IO-470-D–F, H, L–N, S, U, V; TSIO-470-B, C, E	APS-655528-S	07-20084	---
IO-520 (All Models), TSIO-520 - Some Models	APS-655528-S	07-20084	---
TSIO-520-AE	APS-653193-S	07-20083	---
TSIO-520-BE, GTSIO-520-C,D,F,H,K,L–N	APS-655705-S	07-20086	---
IO-550-A–F,L	APS-655528-S	07-20084	---
IO-550-G,N,P,R; TSIO-550-A–C,E,K	APS-655705-S	07-20086	---

Lycoming Engines	Model No.	Part No.	Price
O-235, O-290, O-320, O-340 Series	APS-75906-S	07-20098	---
IO360, AEIO-360, AIO-360, LIO-360, TO-360	APS-67193-S	07-20088	---
IO-360, AEIO-360, HIO-360, HO-360, LO-360	APS-75906-S	07-20098	---
IO-360-F1A, TO-360-C1A6D	APS-76036-S	07-20099	---
GO-435, TVO-435, VO-435	APS-67193-S	07-20088	---
O-470-A,E,J; IO-470-J,K,L	APS-653193-S	07-20083	---
IO-540, AEIO-540, HIO-540, IGSO-540, IVO-540, LTIO-540, TIO-540, TIVO-540, TVO-540, VO-540	APS-67193-S	07-20088	---
IO-540, IGO-540, IGSO-540, LTIO-540, TIO-540	APS-71450-S	07-20092	---
O-540, IO-540, AEIO-540, TIO-540	APS-75906-S	07-20098	---
TIO-541-E1A4-C4, EAD4; TIGO-541-E1A, IO-540-J4A5, LTIO/TIO-540-V2AD	APS-76036-S	07-20099	---
TIO-541-E1A4, E1B4, E1C4, EAD4; TIGO-541-E1A, IO-720-A1A, A1B, D1B, D1C, D1CD	APS-67193-S	07-20088	---
IO-720-B1B,B1BD,C1B	APS-71450-S	07-20092	---

Sample Engine Series Eligibility only. Not all models of each series are eligible.

SEE WEBSITE FOR AIRCRAFT MODEL ELIGIBILITY

APS PLENUM & PIPES FOR CONTINENTAL ENGINES

APS® FAA/PMA-approved 550 crossflow style CMI plenum and intake pipes are manufactured using the latest casting and CNC machining technology. They are a direct replacement for their CMI counterparts.

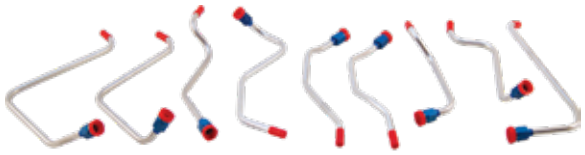
APS Part No.	Description	Part No.	Price
APS-633730	PMA'd Intake Flange	07-20217	---
APS-646206	#5 Cylinder PMA'd Intake Tube	07-20220	---
APS-646207	#6 Cylinder PMA'd Intake Tube	07-20221	---

APS ENGINE MOUNT LEGS FOR LYCOMING ENGINES

APS® engine mounts are billet machined from A7075-T6 aircraft structural aluminum, their tensile strength is 70% higher than original cast mounts, and they have a black anodized finish.

Most 540 w/30° Small Engine Mounts.....P/N 07-20214 ..... ---

APS DRAIN TUBES



APS® Oil Drain Back Tubes for Lycoming Engines
APS® FAA/PMA-approved oil drain back tubes are a direct replacement for Lycoming tubes. These tubes are intended for certified and experimental applications.

Description	Part Number	Price
APS-11935 Drain Tube	07-20066	---
APS-68759 Drain Tube	07-20089	---
APS-68760 Drain Tube	07-20090	---
APS-68761 Drain Tube	07-20091	---
APS-71737 Drain Tube	07-20093	---
APS-72702 Drain Tube	07-20094	---
APS-72703 Drain Tube	07-20095	---
APS-73027 Drain Tube	07-20096	---
APS-74808 Drain Tube	07-20097	---

APS FUEL INJECTION LINES FOR LYCOMING ENGINES

APS® offers stainless steel fuel injection lines for use with many of the popular Lycoming RSA style fuel injection assemblies. APS® stainless steel fuel injection line assemblies are manufactured to extreme standards and are 100% pressure tested at 80 psi for leaks.

Description	Part Number	Price
APS12098-110 Tube Assembly	07-20067	---
APS12098-120 Tube Assembly	07-20068	---
APS12098-200 Tube Assembly	07-20075	---
APS12098-230 Tube Assembly	07-20078	---
APS12098-250 Tube Assembly	07-20080	---
APS12098-260 Tube Assembly	07-20081	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

POLY-FIBER AIRCRAFT COATINGS

AIRCRAFT SPRUCE - WORLD'S LARGEST DISTRIBUTOR OF POLY-FIBER PRODUCTS

This FAA approved process utilizing Poly-Fiber Dacron polyester and the unique "Poly" line of finishes assures a beautiful, durable, weather-resistant cover job every time. Documented time tested results by the professionals. The Poly-Fiber Covering Process was issued Supplemental Type Certificate No. SA-1008-WE in 1965 and this number will apply to all aircraft.

Note: Formerly known as Stits covering process. Only Poly-Fiber materials may be used through the topcoat paint to comply with STC requirements. Poly-Fiber finishes are required for approval. Poly-Fiber is approved for use on most certified aircraft. To be sure, check the Master Eligibility List in the latest revision of Poly-Fiber Procedure Manual No. 1.

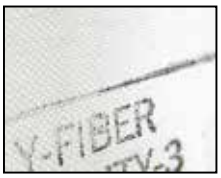
POLY-FIBER FABRIC

UNCERTIFIED LIGHT

1.87 oz/sq. yard. Lightweight fabric recommended for covering ultralight aircraft. This fabric will be unstamped. It is not approved for certified aircraft except on plywood surface. 72" Width.
P/N 09-02001 .....**--- /Linear Yd.**

MEDIUM WEIGHT

2.79 oz/sq. yard. Standard fabric recommended for normal service on all types of aircraft regardless of speed, wing loading or horsepower.
P/N 09-01600 .....**--- /Linear Yd.**



HEAVY DUTY

3.40 oz/sq. yard. Recommended for severe operating conditions and very high wing loading aircraft where a very tough, durable, low elongation, high tension fabric is required and weight is not critical. Great for agricultural, aerobatic and bush planes. 72" Width.
P/N 09-01700 .....**--- /Linear Yd.**

POLYESTER PADDING

Non -woven, 45" wide, 3 oz. per yard. Used under fabric on wing leading edge and turtle deck to smooth rough surfaces.
P/N 09-01750 .....---

POLY-FIBER POLYESTER PINKED EDGE TAPES

Part No.	Style #	Roll Width	Roll Length	Price.
09-02200	Med.	1"	25 yds.	---
09-02400	Med.	1-1/2"	25 yds.	---
09-02450	Med.	2"	25 yds.	---
09-02500	Med.	2"	50 yds.	---
09-02900	Med.	3"	25 yds.	---
09-03300	Med.	4"	25 yds.	---
09-03350	Med.	6"	25 yds.	---
09-02300	Light	1"	25 yds.	---
09-02350	Light	1-1/2"	25 yds.	---
09-02705	Light	2"	25 yds.	---
09-02700	Light	2"	50 yds.	---
09-03100	Light	3"	25 yds.	---
09-03400	Light	4"	25 yds.	---
09-03545	Light	6"	25 yds.	---
09-03565	Bias	2"	25 yds.	---
09-03570	Bias	3"	25 yds.	---
09-03580	Bias	4"	25 yds.	---

POLY-FIBER TAPES, CORD & THREAD

	Item	Part No.	Yards Spool	Price
Reinforcing Tape	3/8" Wide	09-03600-1	60	---
	1/2" Wide	09-03700-1	60	---
Rib Lacing Cord	(Std. Round)	09-03800	296	---
	Rib Cord, Flat	09-03810	500	---
Sewing Thread	Machine	09-03900	500	---
	Hand	09-04000	250	---
Anti-Chafe	1" Wide	09-02110	30	---

HEAVY INTER-RIB BRACING TAPE

Non-adhesive polyester twill tape for inter-rib bracing. Twice as strong as cotton tape. 36 yd. rolls.`1/2" Wide .....P/N 09-40912 ..... ---

THE POLY-FIBER PRACTICE KIT

If you're thinking of building a fabric-covered airplane but are wondering what the covering process is like, this is the perfect answer. You get a practice frame, fabric, tapes, needles, rib lacing cord, thermometer, instructions, and all the coatings you need to work through the Poly-Spray stage. There's enough of everything to do the entire process twice. You'll see how easy and enjoyable fabric covering really is.
P/N 09-06220 .....

POLY-FIBER COLOR CHART #50

Note: These samples are an approximate computer representation of the actual color and are to be used for reference only.
P/N 09-00234 ..... ---

POLY-FIBER SOLVENTS & CLEANERS

METL-SOL C-2200 METAL SURFACE CLEANER

A strong solvent blend formulated to remove oil, silicone, wax and other contaminants from all metal surfaces before priming. Not for painted surfaces.
Quart.....P/N 09-40710 ..... ---
Gallon. .....P/N 09-40720 ..... ---

C-2210 PAINT SURFACE CLEANER

A mild solvent blend formulated to remove oil, silicone, wax and other contaminants from all painted or primed surfaces. Also removes tape gum from painted surfaces and acrylic windshield materials.
Quart.....P/N 09-40810 ..... ---
Gallon. .....P/N 09-40820 ..... ---

310 ALKALINE DETERGENT CLEANER

Highly recommended as an alkaline metal cleaner for removing greases and oils. Also a very good cleaner for interior cabins and vinyl upholstery, as well as a wide variety of household applications to remove waxes, dirt, and stains. Furnished as a concentrate for 32:1 dilution with water. Lemon scented and not harmful to your hands.
Quart.....P/N 310-QT ..... ---
Gallon. .....P/N 310-1G ..... ---

POLY-FIBER MEK

Solvent used to remove coatings for repairs, for clean up, and to release cemented seams. NOT used to thin or reduce any products.
Quart.....P/N 09-40835 ..... ---
Gallon .....P/N 09-40845 ..... ---

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POLY-FIBER AIRCRAFT COATINGS

POLY-BRUSH

A pink translucent, 1 part air drying resin used for the first 2 or 3 coats to penetrate and seal the fabric weave and assure good adhesion. Also used to attach the finishing tapes and reinforcing patches. Brush on initial coat thinned 3:1 with reducer. Subsequent coats are thinned 3:1 with reducer and applied with a spray gun to avoid brush marks & cut application time.

	Tinted		Untinted	
Quart	P/N 09-04100	---	P/N 09-04110	---
Gallon	P/N 09-04200	---	P/N 09-04210	---
5 Gal.	P/N 09-04300	---	P/N 09-04350	---

POLY-SPRAY

A high-solids aluminum-pigmented, 1 part, air drying resin used after the Poly-Brush preliminary coating to protect fabric from UV and prepare for a smooth finish. Thin 4:1.

Poly Spray (Qt.)	P/N 09-04400	---
Poly Spray (Gal.)	P/N 09-04500	---
Poly Spray (5 Gal.)	P/N 09-04600	---

POLY-FIBER REDUCERS

A blend of solvents used for viscosity and drying control of Poly-Brush, Poly-Spray and Poly-Tone. Blend #R-65-75 is recommended as the standard reducer in normal weather, 65°–75°F. #RR-8500 is a retarder-reducer with slower drying time. Recommended for temp above 85° & warm humid weather.

	#65-75		#RR-8500	
Quart	P/N 09-04700	---	P/N 09-04750	---
Gallon	P/N 09-04800	---	P/N 09-04850	---
5 Gal.	P/N 09-04900	---	P/N 09-04950	---

POLY-FIBER BLUSH RETARDER BR-8600

This blended solvent improves flow-out and prevents blushing under high temperature or high humidity conditions. Improves gloss. Important Notice: All mixed paints are special order and are non-returnable.

BR-8600 (Qt.)	P/N 09-40830	---
BR-8600 (Gal.)	P/N 09-40840	---

POLY-TAK CEMENT

Excellent cement for all types of fabrics. Shelf life unopened is 2 years.

Pint	P/N 09-05110	---
Quart	P/N 09-05000	---
Gallon	P/N 09-05100	---

POLY-TONE® FINISH

A durable semi-gloss, 1-part, air drying flexible paint available in over 50 popular aircraft colors. Recommended as the standard finish for the Poly-Fiber cover process. Also may be used over suitably primed metal components of fabric covered aircraft. Fabric damage is more easily repaired when Poly-Tone finish is used. All pigments are non-bleeding or fading. Will not oxidize with age. Poly-Tone is always thinned to 4 to 1with Poly Fiber Reducer (65-75 or 8500).

POLY-TONE FINISHES

4 Whites:	**QUART**	**GALLON**
Insignia White (#105)	---	---
Juneau White (#110)	---	---
Glacier White (#117)	---	---
Daytona White (#120)	---	---

All other colors (Color Card #50)

TO ORDER POLYTONE: Create the part number for the Polytone you require: Color-PQ (for Quart) or Color-PG (for Gallon)
Example: 100-PQ is 1 Quart of Color #100

POLY-TONE U.V. BLOCKING

Used for additional UV Protection in ultralight airplanes. 1 fl.oz. blocks 1Quart Polytone

1/2 Pint Blocker (8 fluid oz)	P/N 09-02053	---

POLY-TONE REJUVENATOR

RJ-1200	Quart	P/N 09-05200	---
RJ-1200	Gallon	P/N 09-05300	---

IMPORTANT NOTICE:
ALL mixed paints are special order and are non-returnable.

STITS EPOXY PRIMER (GREEN) EP-420/EP-430

This green primer is fast drying, corrosion inhibiting, and has application and curing qualities down to 35°F. It is a heavy duty chemical and solvent resistant amine cured primer. Mixing ratio is 2 parts base, 1 part catalyst. Order in kits.

Quart Kit (Yields2 1/2 quarts)

Incl. catalyst and reducer		P/N 09-00352	---

Gallon Kit (Yields 2 1/2 Gallons)

Incl. catalyst and reducer		P/N 09-00353	---
Base:	Quart	P/N 09-05605	---
	Gallon	P/N 09-05610	---
Catalyst:	Pint	P/N 09-05615	---
	Quart	P/N 09-05620	---
Reducer E-500 (Reduce 50%)	Quart	P/N 09-01163	---
	Gallon	P/N 09-01108	---

STITS EPOXY PRIMER (WHITE) EP-420/EP-430

This white heavy duty chemical and solvent resistant amine cured primer, the excellent primer from Stits is fast drying and corrosion inhibiting. It can be applied and cured to temperatures down to 35°F. Mixing ratio is 2 parts base, 1 part catalyst.

Quart Kit (Yields 2 1/2 quarts)

Incl. catalyst and reducer		P/N 09-00285	---

Gallon Kit (Yields 2 1/2 Gallons)

Incl. catalyst and reducer		P/N 09-00438	---
Base:	Quart	P/N 09-05625	---
	Gallon	P/N 09-05630	---
Catalyst:	Pint	P/N 09-05615	---
	Quart	P/N 09-05620	---
Reducer E-500 (Reduce 50%)	Quart	P/N 09-01163	---
	Gallon	P/N 09-01108	---

STITS EPOXY VARNISH EV-400/EV-410

An excellent clear gloss epoxy varnish for interior and exterior use. It provides superior weather durability and excellent chemical and solvent resistance. Can be used over a one component varnish primer if desired. Mixing ratio is 2 parts base, 1 part catalyst. Can be ordered as a kit which includes base, catalyst and reducer, or each component separately.

Quart Kit (Yields 2-1/2 quarts)

Incl. catalyst and reducer		P/N 09-00349	---
Base:	Quart	P/N 09-05645	---
	Gallon	P/N 09-05650	---
Catalyst:	Pint	P/N 09-05655	---
	Quart	P/N 09-05660	---
Reducer E-500 (Reduce 50%)	Quart	P/N 09-01163	---
	Gallon	P/N 09-01108	---

EPOXY ACCELERATOR EX-501

A chemical curing accelerator for use in EP-420 Epoxy Primer and EV-400 Epoxy Varnish according to directions on base component listing. Reduces polymerization time, not solvent evaporation.

1/2 Pint	P/N 09-04650	---

POLY-TONE/AEROTHANE ENAMEL FLATTENER

Used to make Aerothane and Enamel match the semi gloss finish of Polytone, or to make either Aerothane, Polytone and Enamel Full Military Flat.

Use 1 Pint, to flatten 1 Quart		P/N 09-02052	---
Use 1 Qt. & 1 Pint, to flatten 1 Gallon			

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

POLY-FIBER AIRCRAFT COATINGS

POLY FIBER AEROTHANE

A tough, flexible, high-gloss two part polyurethane especially formulated for fabric covered aircraft and marine surfaces subject to flexing loads. Recommended as a premium quality fabric finish over Stits Poly-Fiber covered aircraft. Wet look, high gloss. Aerothane requires catalyst, which is sold separately, and will be offered to you at the time of purchase. If you currently have an adequate supply please notify a sales rep or note it on your online order. Aerothane additives are also sold separately, but must be requested as needed.

AERO-THANE (ALL PAINT 3/4 FILLED CANS)			
Size	**Color**	**Part No.**	**Price**
Quart	Insignia White	105-AQ	---
Gallon	Insignia White	105-AG	---
Quart	Juneau White	110-AQ	---
Gallon	Juneau White	110-AG	---
Quart	Glacier White	117-AQ	---
Gallon	Glacier White	117-AG	---
Quart	Daytona White	120-AQ	---
Gallon	Daytona White	120-AG	---
CLEAR AERO-THANE AO-100 (ALL PAINTS 3/4 FILLED CANS)			
Size	**Color**	**Part No.**	**Price**
3/4 Quart Paint	Clear	AO-100-QT	---
3/4 Gallon Paint	Clear	AO-100-1G	---

AERO-THANE ADDITIVES			
Description	**Size**	**Part No.**	**Price**
Urethane Catalyst U-865	1/2 Pint	09-05400	---
Urethane Catalyst U-865	Quart	09-05500	---
Urethane Reducer UE-820	Quart	09-05600	---
Urethane Reducer UE-820	Gallon	09-05700	---
Urethane Retarder UR-826	Quart	09-05800	---
Urethane Retarder UR-826	Gallon	09-05900	---

TO ORDER AEROTHANE:
Create the part number for the Aerothane you require: Color-A-Q(quart) or G (gallon). Add -K (kit) if catalyst is required. Example: 100-A-Q-K is 1 quart of color #100 with catalyst included.

CALIBRATION THERMOMETER

Thermometer is accurate from 100°F to 400°F / 50°C to 200°C. Easy-to-read dial. Adjustable pan clip. Durable stainless steel.
P/N 09-37475 ..... ---

FABRIC PRO DIGITAL COVERING FABRIC IRON

This digital iron is uniquely designed for heat shrinking fabric onto vintage aircraft and ultralights with fantastic results. The digital temperature control maintains temperature precisely – set it and forget it – no more calibrating and continuous adjustments. The base plate is twice the thickness of an ordinary iron keeping the temperature uniform across the plate. And the shovel tip will get you in and out of the tightest corners – without a wrinkle .....P/N 09-05728 ..... ---

BLACK & DECKER THE CLASSIC IRON

With a classic design and a wide range of convenient features, The Classic™ iron brings simplicity and style back to ironing. A SmarTemp™ indicator light ensures you're ironing at the right temperature, while the 3-way auto shutoff provides added security and peace of mind.
Heats up to 180°
Features: • Wrinkle-Fighting Power • Aluminum Soleplate • Steam On/Off Button • Ironing Made Easy • 3-Way Auto Shutoff • Anti Drip • Fabric Guide Button Groove • Pivoting Cord .....P/N 09-00980 ..... ---

AIRCRAFT FABRIC SEALING IRON 110V

A digital thermostatic controlled sealing iron with easy to read LCD display. 110 Volt Sealing Iron
P/N 09-04837 ..... ---

POLY-FIBER COLORS AVAILABLE

Each color group in chart below is listed from light to darker shades. Free Poly-Fiber color chart available on request. Color Card #50.

CLEAR
100.....(Aerothane Only)

WHITE
105.....Insignia White (Eagle White)
110.....Juneau White
117.....Glacier White (Federal 17038)
120.....Daytona White

CREAM
132.....Sun Valley Ivory
125.....Tucson Cream
131.....Diana Cream

YELLOW
242.....Ag Cat Yellow
136.....Lemon Yellow
139.....Federal Yellow
145.....Lockhaven Yellow
240.....Champion Yellow Titanine Yellow
140.....Orange Yellow (Schweizer Yellow) (Thrush Yellow) (Orange Yellow)
143.....Cub Yellow
146.....J3 OEM Yellow

ORANGE
142A .....Eagle Yellow (Orange)
182.....Pumpkin Orange
183.....International Orange
180.....Cruiser Orange

RED
189.....Madrid Red
187.....Eagle Red
191.....Pontiac Red (Toreador Red)
190.....Tennessee Red (Federal 11136) (Insignia Red)
195.....Santa Fe Red (Maroon)
196.....Boston Maroon

RED (CONT'D)
197.....Stinson Maroon

PURPLE
361.....Eagle Purple

BROWN
205.....Bermuda Tan
203.....Elsinore Brown

BLUE
165.....Lakeland Blue
170.....Bahama Blue
173.....AN Blue (True Blue) (Federal 15102)
318M.....Piper Trainer Blue
177.....Eagle Blue
176.....Insignia Blue (Federal 15044 Blue)

GREY/SILVER
210.....Polar Grey
220M.....Nevada Silver
213A .....Federal 36321 Grey
213.....Ag Cat Grey
219.....Jasper Grey
222M.....Rancho Silver

BLACK
215.....Dakota Black (Eagle Black)

MILITARY CAMOUFLAGE
212.....Oak Green
208.....Federal 14087 (Olive Drab)
208A .....Federal 24064 Green

GREEN
157.....Cuby Sport Trainer (Green)
151.....Everglades Green
156.....Portland Green
160.....Forest Green
208.....Federal Green

GOLD
301M.....Reno Gold

TO ORDER POLY-FIBER COLORS:
Simply specify Poly-Fiber color number from chart above, either PolyTone or AeroThane, and quart or gallon.

IMPORTANT NOTICE: Poly-Fiber and Randolph Coatings are now manufactured by Consolidated Coatings Co. and current colors do NOT all match original Randolph colors. If matching an old color is required, please match it to a current color card or send in a sample of old color for custom matching.

ALL mixed paints are special order and are non-returnable.

SILICONE HEAT SINK COMPOUND

For more accurate thermal transfer during iron calibration.
1 oz. Syringe .....P/N 09-37450 ..... ---

VISCOSITY CUP

The Ford #4 viscosity cup is used for measuring the viscosity of paints and finishes to ensure a flawless finish .....P/N 09-04776 ..... ---

POLY-FIBER 60"X 48" FINE MESH PAINT STRAINER CONES

Poly-Fiber 60x48 filter mesh paint strainer cone.
P/N 09-02115 ..... ---

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POLY-FIBER MARK II FOR METAL

(NOT FOR USE ON FABRIC) - Use Mark II for Metal is available in the same 50 colors as Poly-Fiber Poly-Tone and Randolph Colored Butyrate Dope. Mark II is used over primed metal or composite parts and is too brittle to be used over fabric. Mark II is a tough, long-lasting topcoat paint. Although Mark II is a two-part catalyzed paint, it is not catalyzed with an isocyanate, thus normal safety equipment (a charcoal filtered spray mask) is sufficient. You do not have to use a supplied air respirator when spraying Mark II. Packaging: Mark II comes in three-part kits: part one is a can of the colored paint; part two is a separate can with an equal volume of Mixing Liquid, and part three is a thinner to be used to prevent orange peel.

Color	Quart	Price	Gallon	Price
Clear Base for Tinting	09-03869	---	09-03871	---
Metallic Base for Tinting	09-03872	---	09-03873	---
105 Insignia White	09-03876	---	09-03877	---
110 Juneau White	09-03878	---	09-03879	---
117 Glacier White	09-03880	---	09-03881	---
120 Daytona White	09-03882	---	09-03883	---
125 Tucson Cream	09-03884	---	09-03885	---
131 Diana Cream	09-03886	---	09-03887	---
132 Sun Valley Ivory	09-03888	---	09-03889	---
136 Lemon Yellow	09-03890	---	09-03891	---
139 Federal Yellow	09-03892	---	09-03893	---
140 Orange Yellow	09-03894	---	09-03895	---
142A C. Eagle Yellow/Orange	09-03896	---	09-03897	---
143 Club Yellow	09-03898	---	09-03899	---
145 Lockhaven Yellow	09-03901	---	09-03902	---
146 J3 OEM Yellow	09-03903	---	09-03904	---
151 Everglades Green	09-03905	---	09-03906	---
156 Portland Green	09-03907	---	09-03908	---
157 Cuby Sport Trainer Green	09-03909	---	09-03910	---
160 Forest Green	09-03911	---	09-03912	---
165 Lakeland Blue	09-03913	---	09-03914	---
170 Bahama Blue	09-03915	---	09-03916	---
173 AN (True) Blue	09-03917	---	09-03918	---
176 Insignia Blue	09-03919	---	09-03920	---
177 Christen Eagle Blue	09-03921	---	09-03922	---
180 Cruiser Orange	09-03923	---	09-03924	---
182 Pumpkin Orange	09-03925	---	09-03926	---
183 International Orange	09-03927	---	09-03928	---
187 Christen Eagle Red	09-03929	---	09-03930	---
189 Madrid Red	09-03931	---	09-03932	---
190 Tennessee Red	09-03933	---	09-03934	---
191 Pontiac Red	09-03935	---	09-03936	---
195 Santa Fe Red	09-03937	---	09-03938	---
196 Boston Maroon	09-03939	---	09-03940	---
197 Stinson Maroon	09-03941	---	09-03942	---
203 Elsinore Brown	09-03943	---	09-03944	---
205 Bermuda Tan	09-03945	---	09-03946	---
208 Olive Drab	09-03947	---	09-03948	---
208A Federal Green	09-03949	---	09-03950	---
210 Polar Grey	09-03951	---	09-03952	---
212 Oak Green	09-03953	---	09-03954	---
213 AG Cat Grey	09-03955	---	09-03956	---
213A Federal Grey	09-03957	---	09-03958	---
215 Dakota Black	09-03959	---	09-03960	---
219 Jasper Grey	09-03961	---	09-03962	---
220M Nevada Silver	09-03963	---	09-03964	---
222M Rancho Silver	09-03965	---	09-03966	---
240 Champion Yellow	09-03967	---	09-03968	---
242 AG Cat Yellow	09-03969	---	09-03970	---
301M Reno Gold	09-03971	---	09-03972	---
318M Piper Trainer Blue	09-03973	---	09-03974	---
361 Christen Eagle Purple	09-03975	---	09-03976	---

POLY-FIBER REPAIR KIT

Includes: 1 ..... 1" Dope Brush
1 Pint ..... Poly-Tak
1 Quart ..... Poly-Spray
1 Quart ..... Poly-Brush
1 Quart ..... Reducer (Specify 65-75 or 8500)
1 Yard ..... Medium Fabric
4 Sheets ..... #400 Sandpaper
1 ..... 3" Curved Needle
10 Feet ..... 2" Surface Tape
1 ..... Thread
With #65-75 Reducer ..... P/N 09-06210 ..... ---
With #8500 Reducer ..... P/N 09-06215 ..... ---

CECONITE FABRIC REPAIR KIT

Ceconite 101 ..... P/N 09-00299 ..... ---

Kit Includes:

1	1" Brush	1 quart	286 Nitrate Thinner
1	3"Curved Needle	1 quart	Super Seam Fabric Cement
1	3M Wetordry Sandpaper 413	2 quarts	286 Butyrate Thinner
1 quart	G-6302 Rand Nitrate Dope Grain	1 quart	W-8350 Non-Taut Butyrate
1 yard	Ceconite 101 (3.4) 70"	1 Yard	Stits Hand Sewing Thread
1 quart	Rand O- Fill G6303	5 Yards	2" C102 Straight Tape 2"

Ceconite 101 ..... P/N 09-06225 ..... ---

Kit Includes:

1	1" Brush	1 quart	Nitrate Thinner
1	3" Curved Needle	1 quart	W-8350 Non-Taut Butyrate
1 yard	Ceconite 102 (2.6oz)	2 quarts	Butyrate Thinner 970
1 sheet	3M Wetordry Sandpaper 413	1 quart	Rand-O-Fill G-6303 QT
1 quart	Super Seam Fabric Cement	6 Yard	C102 Straight Tape 2"
1 quart	G-6302 N/T Nitrate Dope Grain	1	Ceconite Hand Thread 250

FABRIC COVERING TOOL KIT

This kit includes the items most commonly needed to complete your Poly-Fiber covering project. **Kit Includes:** 4 - 1" Disposable Brushes, 3 - 2" Disposable Brushes, 4 - 2" opening 6" long Spring Clamps, 1 - CB-9 Pinking Shears, 10 - 1/2" Glue/Acid Brushes, 1 - Black & Decker Classic Iron, 1 Hobbico Fabric iron 110V, 1 - Silicone heat sink compound, 1 - Thermometer, 1 - 12" Straight Needle, 1 - 12" Curved Tip Needle, 1 - 6" Curved Needle, 2 - Gallon Paint Saver Lids, 1 - V-plore 330 series mask only, 1 - X-plore P100 Combo cart pkg ..... P/N 09-06230 ..... ---

POLY FIBER COVERING KIT

The Poly Fiber Covering Kit includes all of the materials generally required to recover a wide variety of small aircraft (see list below) except the fabric and topcoat. Poly-Fiber offers both Polytone and Aerothane topcoats in many colors. When you order this Covering Kit, you can also order the presewn fabric envelope or fabric yardage you will need to cover the aircraft. We are the best choice for your covering materials requirements. Count on Poly Fiber's largest distributor...Aircraft Spruce!

Note: This kit is for aircraft requiring about 45 yards of fabric. Quantity required vary by aircraft. Verify quantity shown are correct for your aircraft before ordering kit. ..... P/N 09-02046 ..... ---

POLY-FIBER MARK II MIXING LIQUID

Mixing liquid is a combination of catalyst and thinner to be used only with Mark II for Metal paint. Included in Mark II kits above, but also available separately. See directions for mixing, thinning, and application above. Shelf life is two years in unopened package.
Quart ..... P/N 09-03695 ..... ---
Gallon ..... P/N 09-03696 ..... ---

POLY-FIBER MARK II THINNER

Used to thin Mark II for Metal paint after it has been combined with Mark II Mixing liquid. Included in Mark II kits above, but also available separately. thinning is generally unnecessary when Mark II is sprayed. However, if orange peel results, you may use Mark II Thinner with 5 parts mixed Mark II paint. Shelf life is four years in unopened storage.
Pint ..... P/N 09-03697 ..... ---
Quart ..... P/N 09-03698 ..... ---
Gallon ..... P/N 09-03699 ..... ---

CS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PRE-SEWN POLY-FIBER AND CECONITE ENVELOPES

Presewn envelopes are much easier to install than fabric yard goods. The envelopes are sewn to fit each individual surface depending upon the type of airplane. They can be placed on the surface like a sock. The envelopes are sewn using a special thread and special stitches. Fabric tapes must be placed over all seams. The seams can be sewn chordwise or spanwise for the wings. Individual Pieces Priced Per Each. On presewn envelopes, individual pricing is done by each piece. (i.e. If your airplane is a Stearman, you will have 4 wings. Price shown is per wing - $86.44. Your cost for all 4 would be: 86.44 x 4 =$345.76

PLEASE ORDER BY PART NUMBER - Basic part numbers (09-XXX) are shown in the chart. Complete the part number with 10 for wing, 20 for fuselage, 30 for aileron, 40 for stabilizer, 50 for elevator, 60 for flap, 70 for rudder, or 80 for complete set. **After the P/N**, add -1 for Heavy Duty 3.4 oz Polyfiber Fabric, -3 for Medium Weight 2.6 oz. Polyfiber Fabric, -5 for Ceconite 101 fabric, or -6 for Ceconite 102 Fabric. **Prices of envelopes vary based on Fabric selected.** Example: Complete part number for a Stinson 108-1 complete set in Ceconite 102 fabric would be 09-67380-6. Note: All pre-sewn envelopes are non-cancelable, non-returnable special orders items.

PRICES SHOWN ARE FOR CECONITE 102 ONLY

Aircraft	Part No.	Wing (10)	Fuselage (20)	Aileron (30)	Stabilizer (40)	Elevator (50)	Flap (60)	Rudder (70)	Complete (80)
Aeronca 7AC 2place	09-641	---	---	---	---	---		---	---
Aeronca 15AC	09-642		---	---	---	---		---	---
Beech D175/F17D/E17D	09-643	---	---	---	---	---	---	---	---
Beech D18/AT1/Twin	09-644			---		---	---	---	---
[1]Bellanca14-19/14-13	09-645		---						
Bellanca Viking	09-646		---	---	---	---	---	---	---
Cessna 120/140/170	09-647								---
Christen Husky	09-648		---		---	---		---	---
Citabria 7, 8	09-649	---	---	---	---	---	---	---	---
Douglas DC-3	09-650			---		---		---	---
Ercoupe	09-651	---							---
Fairchild 24G/RW	09-652	---	---	---	---	---		---	---
Fairchild 19/23/26	09-653		---	---	---	---		---	---
Funk		---	---	---	---	---		---	
Great Lakes 2T1	09-654	---	---						---
Howard DGA	09-655		---						
Luscombe	09-656	---							---
Maule 4	09-657		---		---	---		---	---
Maule 5	09-658		---						
Navy N3N	09-659	---	---						---
N. American AT6/SNJ	09-660			---		---		---	---
N. American P51	09-661							---	
Piper J2/3, PA-18-95, 150	09-662	---	---	---	---	---		---	---
Piper J5/PA 12/14	09-663	---		---	---	---		---	---
Piper PA 15/17	09-664	---	---	---	---	---		---	---
Piper PA16	09-665	---	---	---	---	---		---	---
Piper Colt	09-666	---	---	---	---	---		---	---
Piper PA20/22	09-667	---	---	---	---	---	---	---	---
Ryan PT22/STA	09-702	---		---	---	---		---	---
Schweizer 119	09-668	---	---	---	---				---
Schweizer 126	09-669	---	---	---	---	---		---	---
Schweizer 222	09-670	---	---	---	---	---	---		---
Schweizer 233	09-671		---					---	
Stearman PT13/17	09-672	---	---	---	---	---		---	---
Stinson 108-1, 2, 3	09-673	---	---						---
Stinson 10A/105/HW75	09-674	---	---	---	---	---	---	---	---
Stinson L5	09-675	---	---	---	---	---	---	---	---
Taylorcraft	09-676	---	---	---	---	---		---	---
Waco UPF7	09-677	---	---		---	---		---	---
J-3 Interior	09-678								---
Agricultural Aircraft	**Part No.**	**Wing (10)**	**Fuselage (20)**	**Aileron (30)**	**Stabilizer (40)**	**Elevator (50)**	**Flap (60)**	**Rudder (70)**	**Complete (80)**
[1]Ag Cat	09-679				---	---		---	---
Airtractor	09-680							---	
Callair A9/A9B	09-681	---	---		---	---			---
Piper PA25/Pawnee	09-682	---	---	---	---	---	---	---	---
Snow	09-683	---	---	---	---	---	---	---	---
Snow C/D	09-684				---	---		---	---
Thrush	09-685				---	---		---	---
[1]Weatherly	09-686			---				---	---
Homebuilts	**Part No.**	**Wing (10)**	**Fuselage (20)**	**Aileron (30)**	**Stabilizer (40)**	**Elevator (50)**	**Flap (60)**	**Rudder (70)**	**Complete (80)**
Acro Sport I	09-687	---	---	---	---	---		---	---
Acro Sport II	09-688	---	---	---	---	---		---	---
Avid Flyer	09-689	---	---		---	---		---	---
Baby Great Lakes	09-690	---	---		---	---		---	---
Bowers Fly Baby	09-691	---	---	---	---	---		---	---
Christen Eagle 1 & 2	09-692	---	---	---	---	---		---	---
Corbin Baby Ace	09-693	---	---		---	---		---	---
Kitfox	09-694	---	---		---	---		---	---
Pitts S1S/S1C	09-695	---	---	---	---	---		---	---
Pitts S2S/S2A	09-696	---	---	---	---	---		---	---
Smith Miniplane	09-697	---	---		---	---		---	---
[1]Sonerai II	09-698		---		---	---		---	---
Starduster I	09-699	---	---	---	---	---		---	---
Starduster II	09-700	---	---	---	---	---		---	---
Steen SkyBolt	09-701	---	---	---	---	---		---	---

COMPLETE SETS

Antiques	Part #	Price
Cessna Airmaster	09-705	---
[B]Mooney Mite	09-717	---
Cessna T50/UC78	09-706	---
[A]N. American B25	09-718	---
Commonwealth	09-707	---
Porterfield 35/70	09-719	---
[B]Culver Cadet	09-708	---
Rearwin Sportster	09-721	---

Antiques	Part #	Price
Skyranger	09-722	---
[A]DeHavilland Heron	09-710	---
Stinson 10/10A/10S	09-723	---
Fleet	09-711	---
Stinson AT19/V77	09-724	---
Funk	09-712	---
Stinson SR5C	09-725	---

Model	Part #	Price
[B]Grumman TBMS	09-713	---
Stinson SR9	09-726	---
[B]Meyer OTW	09-714	---
Taylorcraft 15	09-727	---
Monocoupe	09-715	---
[D]Travel Air 4000	09-728	---
[A]Mooney 20A	09-716	---
Piper PA-18	09-450	---

Homebuilts	Part #	Price
[C]Cassutt 111M	09-730	---
[A]Chipmunk	09-731	---
Corbin Jr. Ace	09-732	---
EAA Bipe	09-733	---
Fokker Tri-Plane	09-734	---
Meyer Toot	09-735	---
Pietenpol	09-736	---
Stampe SV4C	09-737	---
[D]Volksplane I	09-738	---
[D]Volksplane II	09-739	---
[C]Wittman Tailwind	09-740	---

[1]Does not include fabric for plywood wings - order separately. For individual wing envelope pricing, divide the number of wings on your aircraft into the wing price. [A] Tails Only [B] Plywood Or Metal Fuselage

ULTRALIGHT SAILS

Our sails are made in the United States by a top flight sail loft. These sails are made from the highest quality 3.9 oz. Dacron, many of them from the original OEM sail patterns. These sails are guaranteed to fit properly. All sail sets come complete with tail feathers and fuselage covers, except where noted. All sail orders are on custom-fabricated basis. Therefore, please allow an average of three weeks for delivery. There are no refunds on sail sets unless they are defective. Non-refundable 100% deposit or credit card purchase required. A wide selection of sail colors are available. Contact Aircraft Spruce for details on colors, patterns, and custom work. Prices subject to change without notice.

Model	Part No.	Price
Star Flight Aircraft		
Hurricane, Avenger & Phantom Aircraft Complete Sail Set	09-01799	---
Wing Surface Set	09-01801	---
Aileron Surface Set	09-01802	---
Elevator Surface Set	09-01803	---
Horizontal Stabilizer Surface Set	09-01804	---
Upper Vertical Stabilizer	09-01805	---
Lower Vertical Stabilizer	09-01806	---
Rudder Surface	09-01807	---
Quicksilver Aircraft		
MX Complete Sail Set	09-01736	---
MX Wing Surface Set	09-01737	---
MX Qualifier Complete Sail Set	09-01738	---
MX Qualifier Wing Set	09-01739	---
MX Tapered Stabilizer Option	09-01763	---
MX Horizontal Stabilizer	09-01765	---
MX Rudder Surface	09-01768	---
MX-MXL Elevator Set	09-01764	---
MX2 Complete Sail Set	09-01740	---
MX2 Wing Surface Set	09-01741	---
MX2 H.P. Complete Sail Set (X-tra Ribs/Tapered Stabilizer)	09-01742	---
Quicksilver Weight Shift Rudder	09-01769	---
Quicksilver Weight Shift Complete Sail Set	09-01743	---
MXL Complete Sail Set	09-01744	---
MXL Wing Surface Set	09-01745	---
MXL Aileron Surface Set	09-01766	---
MXL Tapered Stabilizer	09-01767	---
MXL Sport 2 Complete Sail Set	09-01746	---
MXL Sport 2 Wing Sail Set	09-01747	---
MXL Super Sport Complete Sail Set	09-01748	---
MXL Super Sport Wing Sail Set	09-01749	---
Sprint Complete Sail Set	09-01751	---
Sprint Wing Sail Set	09-01752	---
Sprint 2 Sail Set	09-01755	---
Sprint 2 Wing Set	09-01760	---
GT 400 Complete Sail Set(Includes Pylon Cover)	09-01761	---
GT 500 Complete Sail Set	09-01790	---
GT 400 Wing Surface Set	09-01770	---
GT 500 Wing Surface Set	09-01771	---
GT 400/500 Wing Flap Set	09-01772	---
GT 400/500 Aileron Set	09-01773	---
GT 400 Pylon Fairing	09-01774	---
GT 400/500 Stabilizer/Elevator Set	09-01775	---
GT 400 Rudder	09-01776	---
GT 500 Rudder	09-01777	---
GT 400 Vertical Stabilizer	09-01778	---
GT 500 Vertical Stabilizer	09-01779	---
GT 500 Door Set (Left & Right)	09-01762	---

FOR A COMPLETE LISTING OF ULTRALIGHT SAILS, COLOR CHARTS, AND DIAGRAMS, PLEASE VISIT www.aircraftspruce.com

CECONITE FABRIC

Ceconite, 100% polyester fabric is approved for use on most certified aircraft. To be sure to check the master eligibility list in the procedure manual. Visit our website for Data Sheet.

CECONITE 101 Extra heavy-duty fabric recommended for the most severe operating conditions and very high-wing loading aircraft. 3.4 oz/sq yd. Thread Count: 144 X 57/in
70" Width ..... P/N 09-00700 .....**--- /lin. yd**

CECONITE 102 Standard fabric is recommended for normal service and is widely used on all types of aircraft, regardless of wing loading or horsepower. 2.79 oz/sq yd. 73"X65"
P/N 09-00900 .....**--- /lin. yd**

UNCERTIFIED LIGHT - Light-weight fabric is recommended for covering plywood surfaces on any aircraft and any ultralight aircraft that is not certified. On certified aircraft, it is only approved for covering plywood surfaces. This fabric will be unstamped. 1.87 oz/sq yd. Thread Count – 90 x 76/in. 66" Width ..... P/N 09-00921 .....**--- /lin. yd**

SUPER SEAM FABRIC CEMENT

New Super Seam Fabric Cement. Not compatible with original nitrate-based Super Seam. Used to attach Ceconite Fabric to structures. High solids nitrate based cement approved in the Ceconite STC.
1 Qt.....P/N 09-18100 ..... ---
1Gal.....P/N 09-18200 ..... ---

POLYESTER THREAD & CORD (FAA APPROVED)

CECONITE - D693 waxed, 600 yds.
P/N 09-41300-1 ..... ---

CECONITE - Flat Braided, 500 yds.
P/N 09-00822 ..... ---

HAND SEWING THREADS - 250 yds.
P/N 09-41400 ..... ---

MACHINE SEWING THREAD - 5600 yds..P/N 09-41500 ..... ---
INTERIB BRACING TAPE - 36 yd roll, 1/2"w..P/N 09-41560 ..... ---

CECONITE REINFORCING TAPES (FAA APPROVED)

Polyester twill with adhesive back. Applied under riblacer, server, or pop rivet to prevent fabric from ripping. 60 yd. length.
3/8" width (40 Yards).....P/N 09-41238-1 ..... ---
1/2" width (40 Yards).....P/N 09-41241-1 ..... ---

STAR-TAK FABRIC CEMENT

Star-Tak is a vinyl-based cement that is used to cement aircraft fabric to steel, aluminum, wood, or composite surfaces. It is also used to join fabric together in overlapped cemented seams. It dries to the touch in 15 to 20 minutes in normal temperatures. In two hours, it develops a bond strong enough to allow heat shrinking the fabric.
Quart .....P/N 09-02583 ..... ---
Gallon .....P/N 09-02584 ..... ---

STAR GLOSS GRAY SEALERS

Gray Sealer is used to seal Ceconite fabric prior to spraying Silver Urethane Fabric Primer. This coat prevents pinholes in the Silver Urethane Fabric Primer. Gray Sealer is also used to apply Ceconite finishing tapes. It is tinted translucent gray to help see it when applied.
Quart .....P/N 09-02577 ..... ---
Gallon .....P/N 09-02578 ..... ---
5 Gallon .....P/N 09-02579 ..... ---

STAR GLOSS SEALER REDUCER

Thinner for Gray Sealer. Mix three parts Gray Sealer to one part Sealer Reducer. Shelf Life: Four years, unopened in protective storage. Not affected by freezing.
Quart .....P/N 09-02580 ..... ---
Gallon .....P/N 09-02581 ..... ---
5 Gallon .....P/N 09-02582 ..... ---

CECONITE TAPES

This FAA approved process utilizing Ceconite polyester fabrics and the Randolph line of finishes assures a beautiful, durable, weather-resistant cover job every time. The Ceconite cover process was issued Supplemental Type Certificate No. SA4503NM in 1997, and this number will apply to all aircraft. Note: Only Randolph materials may be used through the topcoat paint to comply with STC requirements. Randolph finishes are required for approval. Ceconite is approved for use on most certified aircraft. To be sure, check the Approved Model List in the latest revision of Procedure Manual 101 for the Ceconite Aircraft Covering Process.

LINEAR STRAIGHT TAPES (CECONITE 102)

Width	Roll	Part No.	Price
1"	50 yds.	09-41010	---
1.5"	50 yds.	09-41015	---
2"	50 yds.	09-41020	---
3"	50 yds.	09-41030	---
4"	50 yds.	09-41040	---
6"	50 yds.	09-41060	---

LINEAR PINKED TAPES (CECONITE 102)

1"	25 yds.	09-41111	---
1.5"	25 yds.	09-41116	---
2"	50 yds.	09-41120	---
2"	25 yds.	09-41125	---
3"	25 yds.	09-41135	---
4"	25 yds.	09-41145	---
6"	25 yds.	09-41166	---

LINEAR PINKED TAPES (CECONITE LIGHT)

1"	25 yds.	09-41251	---
1.5"	25 yds.	09-41255	---
2"	25 yds.	09-00298	---
2"	50 yds.	09-41252	---
3"	25 yds.	09-41253	---
4"	25 yds.	09-41254	---
6"	25 yds.	09-41256	---

BIAS PINKED TAPES (CECONITE LIGHT)

For use on curved edges.

2"	25 yds.	09-41165	---
3"	25 yds.	09-41170	---
4"	25 yds.	09-41175	---

STAR GLOSS SILVER URETHANE FABRIC PRIMER

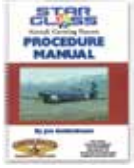
Silver Urethane Fabric Primer is a polyurethane product that serves two purposes: to build the coating over the fabric to prepare for paint, and to protect the fabric from UV radiation. Silver Primer uses a metallic-like flake additive. This proven system results in a positive metallic light block and reflection to both visible and invisible UV without relying on chemical UV light blockers.
Quart .....P/N 09-02585 ..... ---
Gallon .....P/N 09-02586 ..... ---

STAR GLOSS SILVER URETHANE FABRIC PRIMER CATALYST

Silver Urethane Fabric Primer Catalyst is the only catalyst that can be used with Silver Urethane Fabric Primer. Note that unlike other catalysts it is mixed at a four to one ratio of primer to catalyst.
1/2 Pint .....P/N 09-02587 ..... ---
Quart .....P/N 09-02588 ..... ---

STAR GLOSS SILVER URETHANE FABRIC PRIMER REDUCER

A special blend of solvents specifically formulated for use with Ranthane and Star Gloss Silver Urethane Fabric Primer.
Gallon .....P/N 09-02374 ..... ---



STAR GLOSS AIRCRAFT COVERING PROCESS PROCEDURE MANUAL

114 pages of step-by-step instruction on how to cover your airplane with the Ceconite/Star Gloss system, helpful photos, great nostalgic cartoons, extra words of wisdom, and a delightful sense of humor. Includes catalog of products, everything from fabrics to top coat paint.....P/N 09-02576 ..... ---

CS

DACRON TAPE / PEEL PLY

A layer of 2.7 oz. Dacron fabric strips or tape laminated into a layup as if it were an extra ply of glass. The peel coat wets out with epoxy like glass cloth and cures along with the rest of the layup. However, the Dacron does not adhere structurally to the glass and when peeled away it leaves a surface ready for glass-to-glass bonding without sanding.
Requirements for Small Aircraft: For Experimental Aircraft.
• 3 Rolls of 1" x 50 Yds. Tape • 2 Rolls of 2" x 50 Yds. Tape • 1 Roll of 3" x 50 Yds. Tape • 1 Roll of 4" x 50 Yds. Tape

Width	Smooth Edge		Pinked	
50 Yd./ Roll	Part No.	Price/ Roll	Part No.	Price/ Roll
1"	09-15000	---	09-15450	---
2"	09-15100	---	09-15500	---
3"	09-15200	---	09-15600	---
4"	09-15300	---	09-15700	---
6"	09-15400	---	09-15800	---

DACRON BIAS TAPE
FOR HOMEBUILT AIRCRAFT

Bias-cut tapes (weave 45° to edge) are especially useful for trimming compound curves on components such as wing tips and tail surfaces. Bias tape will stretch to conform to the contour without wrinkles, without heat-shrinking edges or cutting and notching to remove excess fabric. Stretching reduces the width about 35% so 3" tape should be used to finish areas normally covered with 2" tape. 2" Bias tape will pull to about 1-3/8" width.
2" x 50 Yd . Roll .....P/N 09-16300 ..... ---
3" x 50 Yd. Roll.....P/N 09-16400 ..... ---
NOT FOR USE ON CERTIFIED AIRCRAFT

COTTON REINFORCING TAPES

.015" thick cotton tape used mostly for inter rib bracing during the covering process. 1/2" x 36 yds., and two rolls will generally take care of a set of standard size wings (ie – J3 Cub).
P/N 09-17000 ..... ---

THREADS & CORDS

Only synthetic threads and rib lacing cords should be used with Dacron covering to insure uniform strength. Waxed linen rib cord Conforms to PMA# TQ0075NM and STC# SA1008WE.

Material	Quantity	Part No.	Price
Dacron Machine Sewing Thread	500 Yds.	09-03900	---
Dacron Hand Sewing Thread	250 Yds.	09-04000	---

SAIL FABRIC

#1003 Glacier White Sail Fabric. 54" wide. 4.1 oz. Color may vary from sample shown. Sold by the yard. Note: This fabric is for ultralight sails, and will not shrink.

Color	Part No.	Price
1003 Glacier White	15-04587	---
192 Lime Green	15-04588	---
196 Deep Purple	15-04589	---
197 Red	15-04590	---
201 Jet Black	15-04591	---
232 Hot Pink	15-04592	---
309 Emerald Green	15-04593	---
310 Royal Blue	15-04595	---
360 Key West Blue	15-04597	---
566 West Coast Gold	15-04598	---

FLORIAN PINKER

One continuous pinked edge while being comfortable for either right or left hand use. Light and compact for easy use and easy storage. Gives that "professional look" to your own creations and easily pinks the most intricate patterns. Made in U.S.A .....P/N 09-01400 ..... ---

FABRIC PRO DIGITAL COVERING FABRIC IRON

• Fabric Pro Digital Iron - Perfomance and Precision • Lightweight and compact • Excellent on edges and corners • Easy to read digital temperature readout • Uniform heat plate creates a perfect finish.
P/N 09-05728 ..... ---

PANASONIC IRON MULTI DIRECTIONAL 360 DEGREE

New Concept 360° Quick Steam/Dry Iron with Curved Non-Stick Coated Titanium Soleplate, Multi-Directional Design with Added Steam Vents, 3-Way Auto Shut-Off, Adjustable Steam, Dial Temperature Control, "Stay Clean" Steam Vents and Anti-Drip System. Maximum Temperature 392F (200C). Controls: Choose Steam or Dry Operation: 4 Button Selector. Select "Extra" Jet-of-Steam: Left Pushbutton. Cool Water Spay or Mist: Right Pushbutton.....P/N 09-03785 ..... ---

FAB-TAC FABRIC CEMENT

A superior quality cement for strong splice joints. Use to cement tapes, rings and grommets to fabric cover. This nitrocellulose type lacquer cement is used to cement aircraft synthetic and cotton fabrics, tapes, and grommets to fabric, cement aircraft fabric to plywood and metal in airplane construction and for attaching upholstery and soundproofing to cabin interiors. It is an excellent all-purpose cement for use on model airplanes. May be added to aircraft dope to improve adhesion to synthetic fabrics (one quart of FAB-TAC to a gallon of DOPE). This smooth flowing adhesive dries in 15 minutes to a tough film with a high tensile strength. May be coated over in 1 hour. Brush coating covers 110 square feet per gallon.
1 Pint .....P/N 09-17800 ..... ---
1 Quart .....P/N 09-17900 ..... ---
1 Gallon .....P/N 09-18000 ..... ---

CLOTH MASKING TAPE

Has many uses in aircraft maintenance work. Strip over sharp corners under fabric. Strips on parts under doped fabric will prevent fabric from sticking to parts. Pressure-sensitive adhesive backing. Easily applied, easily removed. Leaves no residue. Should not be applied below 32°F.
1" x 60 yds.....P/N 09-17100 ..... ---

MILWAUKEE M18 HEAT GUN

Heat Connections Quickly. Anywhere, Anytime. 30% Faster Heat Up Than Corded Most Compact, Stand & Hang One Charge, 40+ Connections The M18 Compact Heat Gun performs applications quickly by reaching operational temperature in less than 7 seconds. As the most compact electric heat gun among market leaders, it can go places where corded heat guns can't. The guarded nozzle provides increased protection for work surfaces and the ladder hook allows users to easily hang the tool between applications. Powered by Redlithium battery technology, it is able to heat over 40 connections on a single XC5.0 battery, anywhere, anytime without the hassle of cords. The M18 Compact Heat Gun features REDLINK PLUS™ Intelligence with a temperature management system to provide maximum life..... P/N 12-05676 ..... ---

HEAVY-DUTY HEAT GUN

This soft air velocity of this heat gun increases the surface temperature to the required working temperature much faster than conventional heat guns and maintains a higher temperature for faster completion of the application. Features double insulation, two temperature selections of 570°F and 1000°F, and a unique impact resistant heating element. Operates on 120V AC at 11.6 amps. Air volume 14.8 cu. ft. per minute. Wt. 1-1/2 lbs. .....P/N 09-00354 ..... ---

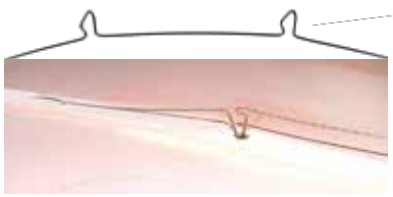
MAULE FABRIC TESTER

A fine quality tool to test fabric covered aircraft for minimum FAA requirements without removing or punching holes in fabric. Also used to test struts for inside rusting as required by FAA on all Piper aircraft with struts.....P/N 09-14900 ..... ---

CS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MARTIN FABRIC CLIPS



Used to secure fabric to metal ribs in wings and control surfaces. Replaces rib-stitch cord or P-K screws. Provides a more secure and streamlined installation. Drastically reduces covering time. FAA-approved for aircraft listed. Easily adapts to homebuilts with metal ribs. Spacing between clips, 3". Spacing may be reduced to 1-1/2" on high-performance aircraft by using 2 wires, with clips inserted in alternate holes that are spaced 1-1/2" apart. Fabricated from stainless steel wire. Supplied in 25-ft. continuous coils.

NOTE: FAA Approved for some aircraft.
Please see our website for complete approval list.

25-Ft. Coil.....P/N 09-19400 ..... **---**

Aircraft Model	STC No.	Part No.	Feet Req'd.
Aeronca-Champion	SA150S0	09-19500	225
Piper — All Models	SA126S0	09-19600	175-250
Stinson	SA615S0	09-19700	175
Taylorcraft	Original Equipment	09-19800	225

INSTALLATION KITS

All install kits ---. No clips are included. Order separately.
***If clips are used to secure fabric on controls, add 50 ft.**

CESSNA-TYPE FABRIC CLIPS

Individual spring steel clips used to attach fabric to metal ribs. Eliminates rib stitching.
P/N 09-19900 ..... **---**

3M™ FINE-LINE PAINT TAPE

This 3M™ tape is particularly suitable for pin striping, multicolor and other custom painting applications. It is a thin, conformable green polypropylene film tape with a special finish that resists paint runoff. The adhesive adheres instantly and offers good holding power, resists lifting and curling. Stretchable and easy to handle. Provides an extremely fine color-line separation for decorative painting of aircraft. Scotch No. 218.

1/8" x 60 Yds.....P/N 09-20200 ..... **---**
1/4" x 60 Yds.....P/N 09-20300 ..... **---**
1/2" x 60 Yds.....P/N 09-20400 ..... **---**
3/4" x 60 Yds.....P/N 09-20500 ..... **---**

WOOD BRUSHES

Natural, undyed bristle with smooth, unpainted wood handles. Unaffected by paint, dopes, thinners or solvents.

Brush Width	Part Number	Price Each	Brush Width	Part Number	Price Each
1/2"	09-21100	---	2-1/2"	09-38825	---
1"	09-21200	---	3"	09-38803	---
2"	09-21300	---	4"	09-38804	---

ACID OR GLUE BRUSHES

Horse hair with metal handle.
#1- 3/8" Wide .....P/N 09-21400 ..... **--- ea.**
#2- 1/2" Wide .....P/N 09-21500 ..... **--- ea.**

DOLLAR PATCHES

Grade B fabric patches for quick repairs on Grade B & Dacron covering. Smooth edge, 2.5" dia. Also available in Dacron which are more durable & less noticeable on aircraft exterior. Less 10% For 12 or More.

Dacron Dollar Patches...P/N 09-17705 ..... **---/ea.**
Ceconite C101 .....P/N 09-00162 ..... **---/ea.**
Ceconite C102 .....P/N 09-00163 ..... **---/ea.**
PF P-103 Med.....P/N 09-18750 ..... **---/ea.**
P99 Heavy Duty.....P/N 09-00164 ..... **---/ea.**

RIB LACING & SEWING NEEDLES

Description	Size	Part Number	Price
3" Curved	Needle 3C	09-18705	---
6" Curved	Needle 6C	09-18710	---
12" Curved Tip	Needle 12C	09-18720	---
12" Straight	Needle 12	09-18725	---
18" Curved Tip	Needle 18C	09-18730	---

Needle Assortment includes 1 each of the following: 3" curved, 6" curved, 12" curved, 12" straight, 18" straight ..P/N 09-18735 ..... **---**

RIB STITCH NEEDLES

Made from the highest quality steel. Heat treated, nickel plated.

Description	Gauge Size	Part Number	Price
2-1/4" Curved	18	09-18300	---
4" Straight	15	09-18400	---
10" Straight	13	09-18500	---
14" Straight	13	09-18600	---
18" Straight	12	09-18700	---

"T" HEAD PINS

Used to hold fabric in place temporarily in covering operation. Plated steel, 1-1/2" L. 100 Pins.
P/N 09-18850 ..... **---**

SCREWS

Used on some aircraft models to attach fabric to metal wing ribs and empennage ribs instead of rib lacing. Truss-head, type "A" self-tapping sheet metal screws.
Size #4 x 1/4".

Stainless Steel, Phillips Head .....P/N T4X4..... **---/ea**
Stainless Steel Type A, Phillips.....P/N 4RX1/2SS..... **---/ea**
Stainless Steel Type A, Phillips.....P/N T4X6..... **---/ea**

AD-41H CLOSED-END BLIND POP RIVET

1/8" diameter. Used to seal tubing vent holes.
P/N 04-01496 ..... **---/ea**

BLIND RIVETS

Use these 1/8" dia. "Pop" rivets to attach fabric to the ribs on Champion/Bellanca aircraft. 100 Rivets.
P/N 09-18900 ..... **---**

WASHERS

Aluminum washers may be use in place of original plastic washers under screws and pop rivets to attach fabric to metal wing or empennage ribs.

Plastic, 1/8" I.D. x 1/2" OD .....P/N 09-19000 ..... **---**
Aluminum, 0.128" ID x 1/2" OD x 0.016.....P/N 09-19100 ..... **---**

DRAIN GROMMETS

Manufactured from virgin cellulose acetate butyrate resin.

Grommet Type	Part No.	O.D.	I.D.	Price each
Flat	AN231-1	1-1/4"	3/8"	---
Flat	AN231-2	3/4"	5/16"	---

Grommet Type	Part No.	O.D.	I.D.	Price each
Seaplane*	AN231-4	1-1/8"	—	---
Aluminum	09-19110	3/4"	1/4"	--

***Depressed center**

INSPECTION RINGS

Clear plastic rings, 4-5/8" O.D. x 3-1/2" I.D. x .050" thick, molded from virgin cellulose acetate butyrate resin. To be cemented to fabric as inspection plate retainer. P/N 09-19200 ..... **--- ea.**

INSPECTION RING PATCHES

Glued over inspection rings to prevent accidental removal.
P/N 09-18750 ..... **--- ea.**

INSPECTION PLATES

DOMED - Concave aluminum snap-type plate has single clip riveted across full diameter. Snaps to the ring at 2 contact points. Plate is 4.75" dia.
P/N 09-19300 .....**--- ea.**..... **---/100**

RECESSED - Recessed center and flanged-edge design will not creep off center due to vibration in propwash areas. 4-3/4" dia. x .020 aluminum. Will not twist or vibrate .....P/N 09-18740 ..... **--- ea.**

PIPER INSPECTION ACCESS HOLE KIT

Piper inspection access hole kit 765-106 comes with hardware, 2 plates, and 2 backup ring assemblies.
P/N 09-05779 ..... **---**

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SOCOMORE SPECIALTY PAINTS

1. Paint Strippers
2. Primers: Acid Etch And Epoxy
3. Topcoats: A Chemical Resistant Polyurethane With UV Protectors
4. Socomore Polykick™ to Accelerate Drytime
5. Cleaners

SOCOMORE COMPLETE SPECIALITY PAINT SYSTEM

Note: Strong professional recommendation – These products have been specifically formulated to work together. Maximum adhesion, durability and performance is achieved when these products are applied as a system. To Purchase Your Specialty Paint System Simply tell us the make and model of your aircraft, and the Federal 595 Color – see chart on our website at: www.aircraftspruce.com Need a custom color that is not on the chart? – Ask us, we can help you with that too.

SOLVENTS, REMOVERS, & REDUCERS

MEK is virgin (not recycled) MEK that may be used to clean and prepare the substrate for painting. MEK may also be used to clean brushes, paint guns and other painting tools. Socomore Acetone is virgin (not recycled) Acetone that may be used to remove lacquer finishes, for cleanup after painting, and to soften lacquers or acrylics that set up in spray guns or hoses. Acetone is not effective on urethanes and should not be used.- Toluene is virgin (not recycled) toluene that may be used as a reducer for enamels and other coatings in the alkyd family.

Description	Part No.	Price
Alkyd&Lacquer Thinner Gal.	09-00942	---
Mek Qt.	09-00972	---
Mek Gal.	09-00971	---
Toluene Qt.	09-00976	---
Toluene Gal.	09-00975	---

EPOXY PRIMER

Socomore's Epoxy Primer is a low VOC (volatile organic compounds) epoxy polyamide solvent primer which conforms to the military specification MIL-P-23377 Rev. E. This coating is highly recommended for use on aluminum and all plated or unplated metallic surfaces to insure maximum protection against corrosion. This primer may be used as an interior or exterior primer that insures maximum adhesion of any paint or lacquer finish coats.

NOTE: Before applying, refer to the technical data sheet for this product.
***Must be shaken for 15 min. on a paint shaker.**

Description	Part No.	Price
Epoxy Thinner Quart	09-00937	---
Epoxy Thinner Gallon	09-00936	---

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ACID ETCH PRIMER

Socomore's Air Dry Wash Primer requires no sanding and is a polyvinyl butyral zinc chromate formulation that may be used to prime all plain or plated metallic surfaces. Priming surfaces with this primer will ensure maximum adhesion of all bake or air-dry finish coats (including lacquer finish coats). The finely ground emulsions of zinc chromate pigment, resins and phosphoric acid hardeners are virtually non-settling.

Description	Part No.	Price
Yellow Acid Etch Primer Quart	09-00948	---
Yellow Acid Etch Primer Gallon	09-00946	---
Green Acid Etch Primer Quart	09-00949	---
Green Acid Etch Primer Gallon	09-00947	---
Reducer 1045 Gallon	09-00950	---

ZINC CHROMATE PRIMER

Socomore's Zinc Chromate Primer is formulated to exceed the performance standards in the Federal Specification TT-P-1757. This primer promotes maximum adhesion to bare aluminum and steel and is recommended for that purpose. Socomore's zinc chromate primer is a formulation proven to perform.

Description	Part No.	Price
Zinc Chromate Yellow Spray 13 oz.	09-00901	---
Zinc Chromate Yellow Qt.	09-00919	---
Zinc Chromate Yellow Gal.	09-00922	---
Zinc Chromate Yellow 5 Gal.	09-00952	---
Zinc Chromate Green Spray 13 oz.	09-00895	---
Zinc Chromate Green QT.	09-00917	---
Zinc Chromate Green Gal.	09-00918	---
1022X66 Reducer Gal.	09-00954	---

SOCOMORE CIRRUS COLORS FOR WING WALK COATING

A non-slip coating used for walkways on exterior aircraft surfaces. Socomore Wing Walk is a rough texture non slip. The Wing Walk is a unique formulation of high molecular urethane resins, which cures at ambient temperatures.

Size	Color	Part No.	Price
Pint	Sterling	09-05240	---

SOCOMORE EPOXY TOPCOAT INTERIOR APPLICATION

Two component catalyst cure epoxy polyamide which meets, and exceeds, MIL-PRF-22750E&F; Type 1. This system cures to an extremely hard, impervious film which resists yellowing and chalking. The Epoxy Topcoat provides the ultimate protection and gives a high quality finished appearance to metal, wood, and most other materials capable of being coated. Intended specifically for interior application to improve longevity and provide durability. This product is available in every color from the 595C Federal Color standard. Custom color matching available upon request.

Insignia White Gloss (1 Gallon).....P/N 09-17925 ..... ---
Juneau White Flat (1 Quart).....P/N 09-17886 ..... ---

SOCOMORE WING WALK COATING

Socomore Wing Walk Coating is a non-slip coating used for walkways on exterior aircraft surfaces. Socomore Wing Walk is a rough texture non slip. The Wing Walk is a unique formulation of high molecular urethane resins, which cures at ambient temperatures. This product is a high performance, two component polyurethane topcoat designed for exterior and interior use on high performance general aviation, business jet, and commercial aircraft.

Size	Color	Finish	Part No.	Price
		Flat	09-01230	---

ALL mixed paints are special order and are non-returnable.

ORDER ONLINE!

www.aircraftspruce.com

• 100,000 Parts!
• 24 Hour Access!
• Fast, Easy Navigation!

SPECIALITY PAINTS POLYURETHANE - ENAMELS - WATERBORNE

POLYURETHANE/CATALYST CURE: Low VOC - Two component topcoat system with built-in U.V. protection. The system has both corrosion and chemical resistance properties with a gloss range > 95%. Comes in all Federal 595C colors. Custom colors available upon request.

ENAMEL: Socomore's Enamel is formulated to meet the performance specifications of Federal specification TT-E-489G. This product is a high quality alkyd enamel which performs best when used with Socomore's zinc chromate or chromate free primer. It may be applied over wood or metal and is suitable for both interior and exterior applications.

WATERBORNE POLYURETHANE: ZERO V.O.C. general purpose, exterior protective coating for metal surfaces. This product also works great for interior applications. The Waterborne Polyurethane should be applied over top of the Socomore Waterborne Epoxy Primer. Available in all Federal 595C colors; custom colors available upon request.

HOW TO ORDER:

Add the following dash numbers after the "Base Part No." listed in the chart for the size and type desired.

For Socomore Polyurethane: Qt. Size add -13
Gal. Size add -14

For Socomore Enamel: Qt. Size add -23
Gal. Size add -24

For Socomore Waterborne: Qt. Size add -33
Gal. Size add -34

The Socomore Polyurethane, Enamel, and Waterborne paints are also available in semi-gloss and flat. Please contact us for current price and availability.

Socomore Touch-Up Paint Kits are available in polyurethane, enamel, waterborne, and interior epoxy pants.
For more information, see www.aircraftspruce.com.

Gloss Paints	Base Part No.	Poly.Qt. Price	Poly.Gal. Price	Enamel Gal. Price	Waterborne Gal. Price
Madrid Red	09-11120	---	---	---	---
Champion Yellow	09-13275	---	---	---	---

AERO ARPOSOLVE ALCOHOL

Aero Arposolve A Isopropyl Alcohol 90% - 100%.

Specifications: • Appearance: Liquid • Colour: Clear, Colorless • Odor: Alcohol-like, characteristic • Odor Threshold: 200 ppm • pH: No data available • Freezing Point (Melting point / freezing point): -88 °C (-126 °F) • Boiling Point: 82 - 83 °C (180 - 181 °F) / (1013 hPa) • Flash Point: 12 °C (54 °F) • Method: Tag closed cup • Evaporation Rate: < 3.9 / (Butyl Acetate = 1) • Flammability (solid, gas): No data available • Upper explosion limit: 13 %(V) • Lower explosion limit: 2 %(V) • Vapor Pressure: No data available • Relative vapor density: < 2.1 @ 15 - 20 °C (59 - 68 °F) • (Air = 1.0) • Relative density: 0.785 - 0.787 @ 20 °C (68 °F) / Reference substance: (water = 1) • Solubility(ies) Water solubility: completely miscible • Solubility in other solvents: No data available • Partition coefficient noctanol/ water: log Pow: 0.05 @ 25 °C (77 °F) • Auto-ignition temperature: 399 - 425 °C • Thermal decomposition: No data available

Description	Part Number	Price
1 Quart	09-05731	---
1 Gallon	09-05730	---
5 Gallons	09-05732	---
55 Gallon Drum	09-05766	---

3CHEM PROPELLER COATING AEROSOL - FLAT RHINO GRAY

3Chem Propeller Coating Aerosol - Flat Rhino Gray
P/N 09-06277 ..... ---

SOCOMORE COLOR CHART

These samples are an approximate computer representation of the actual color and are to be used for reference only .....P/N 09-01969 ..... **FREE**

ALL POLYURETHANE PAINTS REQUIRE CATALYST TO CURE!

Always refer to Technical Data before use for mixing instructions and curing times.

Description	Size	Part Number	Price
Polyurethane Catalyst	Gal	09-01256	---
Polyurethane Thinner	Gallon	09-01658	---

STARTEX COATINGS

Description	Size	Part No.	Price
TT-T266B Lacquer Thiner	5 Gallons	09-03025	---
O-A-51 Acetone	1 Gallon	09-03028	---
Toluene TT-T-548	1 Quart	09-03035	---
Toluene TT-T-548	5 Gallons	09-03033	---
Alcohol TT-I-735A	1 Quart	09-03042	---
Alcohol TT-I-735A	1 Gallon	09-03041	---
Alcohol TT-I-735A	5 Gallons	09-03039	---
Mineral Spirits P-D-680	5 Gallons	09-03044	---
Denatured Alcohol	Gallon	09-03049	---
Denatured Alcohol	5 Gallons	09-03048	---

FABRIC REJUVENATORS

FLAMMABLE

A blend of deep cutting solvents which penetrates the dope finish and restores some of the original flexibility. Use on old fabric in fair condition. Do not use on weak or rotted fabric. Specify type of finish. Rejuvenator Type Certified Coatings Nitrate Rejuvenator Butyrate Rejuvenator Stits Poly-Fiber RJ-1200.

Gallon .....P/N 09-22700 ..... ---
Gallon .....P/N 09-05300 ..... ---

ALL mixed paints are special order and are non-returnable.

AIRCRAFT SPRUCE ACETONE

Use to remove lacquer finishes, for cleanup after painting, and to soften lacquers or acrylics that have set up in spray guns or hoses. It has little effect on polyurethane which has cured in the lines.Use only virgin acetone as recovered acetone can damage virtually anything on which it is used.

Pint .....P/N 01-01077 ..... ---
Quart .....P/N 01-01078 ..... ---
Gallon .....P/N 01-01079 ..... ---

NOTE: DO NOT MIX CERTIFIED DOPES & THINNERS WITH RANDOLPH AS THEY ARE NOT ALWAYS COMPATIBLE.

3 CHEM ZINC CHROMATE

A tough, flexible, high-gloss two part polyurethane especially formulated for fabric covered aircraft and marine surfaces subject to flexing loads. Recommended as a premium quality fabric finish over Stits Poly-Fiber covered aircraft. Wet look, high gloss. Aerothane requires catalyst, which is sold separately, and will be offered to you at the time of purchase. If you currently have an adequate supply please notify a sales rep or note it on your online order. Aerothane additives are also sold separately, but must be requested as needed.

Size	Color	Part No.	Price	Color	Part No.	Price
16 Oz Aerosol	Yellow	09-06306	---	Green	09-06310	---
Quart	Yellow	09-06308	---	Green	09-06312	---
2 Quart	Yellow	---	---	Green	09-06322	---
Gallon	Yellow	09-06309	---	Green	09-06313	---
5 Gallon	Yellow	09-06307	---	Green	09-06311	---

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RANDOLPH AIRCRAFT COATINGS

Randolph coatings are the FAA-approved coatings for the Ceconite STC covering process. **Do not mix Randolph Dopes & Thinners with Certified Coatings Products as they are not always compatible.**

210 NITRATE DOPE, TAUTENING, CLEAR, HI-SOLIDS

Used only on Grade A cotton or Irish Linen. A premium high solids nitrate dope that tightens natural fabric as it dries. Not for use on Ceconite or heat-shrunk synthetic fabrics. Thin 1:1 w/286 Nitrate Thinner.

FLAMMABLE
Quart.....P/N 210-QT ..... ---
Gallon .....P/N 210-1G ..... ---
5 Gallons .....P/N 210-5G ..... ---

W-7868 NITRATE DOPE, TINTED, NON-TAUTENING (BLUE)

Initial coating for Ceconite or heat shrunk polyester fabric. Additional plasticizers slow shrinking after application. Thin 1:1 with 286 Nitrate Thinner.

FLAMMABLE
Quart.....P/N W-7868-QT..... ---
Gallon .....P/N W-7868-1G..... ---
5 Gallons .....P/N W-7868-5G..... ---

E-4964 NITRATE DOPE, CLEAR,NON-TAUTENING

Initial coating for Ceconite or heat shrunk polyester fabric. For use on open cockpit aircraft where tinted dope is not desired. Thin 1:1 w/286 Nitrate Thinner.

FLAMMABLE
Quart.....P/N E-4964-QT..... ---
Gallon .....P/N E-4964-1G..... ---
5 Gallons .....P/N E-4964-5G..... ---

G-6302 RAND-O-PROOF NITRATE DOPE (GREEN)

Special formulation of nitrate dope and additives for the initial coat on Ceconite fabric and for applying tapes. This is the recommended first coat in the Ceconite/ Randolph system. Thin 1:1 with 286 Nitrate Thinner.

FLAMMABLE
Quart.....P/N G-6302-QT ..... ---
Gallon .....P/N G-6302-1G ..... ---
5 Gallons .....P/N 09-01017 ..... ---

286 NITRATE THINNER

Used 1:1 to thin nitrate dopes & Rand-OProof.

FLAMMABLE
Quart.....P/N 286-QT ..... ---
Gallon .....P/N 286-1G ..... ---
5 Gallons .....P/N 286-5G ..... ---

9701 BUTYRATE DOPE, TAUTENING, CLEAR

Used only on Grade A Cotton or Irish Linen to tighten the fabric as it dries. Not for use on Ceconite or heat-shrunk synthetic fabrics. Thin 1:1 with 9703 Butyrate Thinner.

FLAMMABLE
Quart.....P/N 9701-QT ..... ---
Gallon .....P/N 9701-1G ..... ---
5 Gallons .....P/N 9701-5G ..... ---

W-8350 BUTYRATE DOPE TINTED, NON-TAUTENING (TAN)

This non-taughtening butyrate dope features an increased level of plasticizer and will not tauten excessively. Takes longer to dry than standard butyrates. Tinted. Used to apply finishing tapes. Additional plasticizers slow shrinking. **TINTED LIGHT TAN BUT DRIES CLEAR.** Recommended initial build butyrate coating to follow Rand-O-Proof in the Ceconite/ Randolph system. Thin 1:1 with 9703 Butyrate Thinner.

FLAMMABLE
Quart.....P/N 09-00790 ..... ---
Gallon .....P/N 09-00788 ..... ---
5 Gallons .....P/N 09-00789 ..... ---

55 Gallon Drums - For 55 gallon drum of Randolph product, use basic P/N D55 - Example: 210-D55

J3000 BUTYSOLV REJUVENATOR

Used to soften older dope coatings which exhibit cracking or ring-worming. Restores plasticizers in aged finishes to add flexibility. Only works on aircraft painted with butyrate dope; will not work on polyurethane topcoat finishes.

FLAMMABLE
Quart.....P/N 09-14505 ..... ---
Gallon .....P/N 09-14510 ..... ---
5 Gallons .....P/N 09-14515 ..... ---

G-6303 RAND-O-FILL BUTYRATE (SILVER)

Rand-O-FillG-6303 is a non-tautening butyrate material designed as the aluminum spray coat over Rand-OProof G-6302, over Nitrate Clear Dope or Butyrate clear Dope. Allow to dry. Wet sand to desired smoothness. Wash and allow surface to completely dry before applying following coat. Thin as needed with Butyrate Thinner.

FLAMMABLE
Quart.....P/N G-6303-QT ..... ---
Gallon .....P/N 09-01018 ..... ---
5 Gallons .....P/N 09-01019 ..... ---

701 ALUMINUM PASTE

A fine mesh paste which is easier to use than powder. Mix 4 oz. by weight of paste to one gallon of clear butyrate dope before thinning.

1 Lb. .....P/N 09-14500 ..... ---

9703 BUTYRATE THINNER

Used 1:1 to thin butyrate dopes & pigmented butyrate colors.

FLAMMABLE
Quart.....P/N 9703-QT ..... ---
Gallon .....P/N 9703-1G ..... ---
5 Gallons .....P/N 9703-5G ..... ---

Y-9910 UNIVERSAL RETARDER

Prevents blush in nitrate and butyrate products. Also used to slow nitrate and butyrate drying in high temperatures.

FLAMMABLE
Quart..... P/N Y-9910-QT ..... ---
Gallon ..... P/N 09-01048..... ---
5 Gallons ..... P/N 09-01049..... ---

A-1690 BUTYRATE DOPE, NON-TAUTENING (CLEAR)

For use as a build coat after E-4964 Non-Tautening Nitrate (Clear) on open cockpit aircraft where tinted dope is not desired. Thin 1:1 with 9703 Butyrate Thinner.

FLAMMABLE
Quart.....P/N 09-00817 ..... ---
Gallon .....P/N 09-00818 ..... ---
5 Gallons .....P/N 09-00819 ..... .---

MATERIAL REQUIREMENTS FOR AVERAGE SIZE AIRPLANE

USING RANDOLPH FINISHES AND CECONITE FABRIC

- 45 yds. 70" Ceconite 102
- 5 gals. Rand-O-Proof
- 10 gals. NT Butyrate
- 3 gal. Universal Finishing Retarder
- 13 rls. Pinked Ceconite Tape
- 2 rls. 1/2" Reinforcing Tape
- 30 Inspection Rings
- 5 gal. Nitrate Thinner
- 10 gal. Rand-O-Fill
- 30 gal. Butyrate Thinner
- 10 gal. (White) Butyrate Dope
- 1 rl. Ceconite Rib Lacing Cord
- 100 Plastic Drain Grommets
- 1 gal. Rand-O-Bond

RANDOLPH FLOAT LACQUER

This specialty product is used as a spray on the bottom of aluminum floats on amphibious aircraft to protect them from marine growth. Reduce with Randolph 286 Nitrate Thinner.

FLAMMABLE
Quart.....P/N 09-00830 ..... ---
Gallon .....P/N 09-00831 ..... ---
5 Gallons .....P/N 09-00832 ..... ---

RANDOLPH ACID-PROOF BATTERY BOX BLACK PAINT #345

Battery Box Black Paint is an asphaltic coating used to provide protection from battery acid in battery boxes and compartments. It is generally applied with a brush or roller to any metal area that may be exposed to leaking battery acid. Shelf life: Guaranteed 2 years from date on manufacture in sealed container in protected storage. Coverage: 225 square feet per gallon with one coat. Mixing: Stir well before use.Thinning: Use out of the can. If thinning is necessary, thin five parts paint to one part 286 Nitrate Thinner. Application: Apply with a brush. Three coats will provide the best possible protection to epoxy primed metal surfaces.

Quart.....P/N 344-QT ..... ---

ALL mixed paints are special order and are non-returnable.

RANDOLPH COLOR PRODUCTS

RANDOLPH COLORED NON-TAUTENING BUTYRATE DOPE - The final color coat applied over fabric in the Ceconite/Randolph system. Available in 50 standard colors. Thin one to one with 9703 Butyrate Thinner. One thinned gallon covers approximately 200 sq ft with one coat.

RANTHANE POLYURETHANE FINISH

Ranthane is a low viscosity, very high solids polyurethane material resulting in low film weight providing a lasting high gloss. Will withstand most chemicals, engine oils, and hydraulic fluids. Has superb adhesion and abrasion resistance as well as high temperature resistance. For fabric and primed metal.

RANTHANE HIGH SOLIDS CATALYST

Pint .....P/N 09-00328 ..... ---

Use w/ High Solid Polyurethane

Quart.....P/N 09-00400 ..... ---

RANTHANE ACCELERATOR

Quart.....P/N D-7201-QT ..... ---

RANTHANE REDUCER

Quart.....P/N G-4200-QT ..... ---

Gallon .....P/N G-4200-1G ..... ---

The FAA has approved the use of Ranthane over Poly-Fiber. To order Ranthane colors, please specify Randolph color from chart on right and specify quart or gallon.

NOTE: Randolph paints are now manufactured by Consolidated Coatings and will not exact match old Randolph colors. If you are ordering to match old Randolph colors, please provide a paint sample that can be matched by the factory.

MARK II FOR METAL
(NOT FOR USE ON FABRIC)

A tough, long-lasting, two-part topcoat paint catalyzed with a non-isocyanate catalyst. Supplied air respirator not required when spraying. Available in same 50 colors as Colored Butyrate Dope and Ranthane for use over primed metal or composite parts. Mix 1:1 with Mark II Mixing Liquid. Sold as kits.

MARK II MIXING LIQUID - Combination of catalyst and thinner to be used with Mark II for Metal paint.

Quart.....P/N 09-02193 ..... ---

Gallon .....P/N 09-02194 ..... ---

MARK II THINNER - Used as needed to thin Mark II for Metal after combining with Mark II Mixing Liquid to increase flow out.

Pint .....P/N 09-02195 ..... ---

Quart.....P/N 09-02196 ..... ---

Gallon .....P/N 09-02197 ..... ---

FAST-DRY ENGINE ENAMELS

Formulated to be heat resistance and maintain good gloss and color retention. For use in the painting of engine crank cases and cylinders, after major overhaul or for general maintenance. Can also be used on engine mounts and supports. Service temperature is 300-350 degrees F. Reduction: Thin to correct spray viscosity with #257 Enamel Thinner(approximately 20% reduction). **Application**: Spray two coats. Allow to dry to the touch between coats.

Color	Quart		Gallon	
	Part No.	Price	Part No.	Price
303 Black	303-QT	---	303-1G	---
D-5973 Continental Gold	D-5973-EQ	---	D-5973-EG	---
G-5436 Lycoming Gray	G-5436-EQ	---	G-5436-EG	---

RANDOLPH ENAMEL THINNER

Fast drying thinner for use with Randolph Aircraft Enamels and Fast Dry engine Enamels.

Quart .....P/N 257-QT ..... ---

Gallon.....P/N 257-1G ..... ---

RANDOLPH ENAMEL HARD GLOSS 9313

Special drier/ additive that modifies enamel into a stronger film that dries faster and creates an even, glossier surface. Adding 2 fluid ounces per thinned quart improves the gloss and removes the tendency for enamel to remain slightly tacky for long periods..... P/N 09-01164 ..... ---

RANDOLPH COLOR SELECTIONS AND PRICES

Colors	Butyrate For Fabric Only		Mark Ii For Metal Only		Ranthane	
	Qts.	Gals.	Qts.	Gals.	Qts	Gals
Reds						
B-3534 Madrid Red	---	---	---	---	---	---
B-9163 Colorado Red	---	---	---	---	---	---
M-9522 Tennessee Red	---	---	---	---	---	---
M-9530 Vermillion Red	---	---	---	---	---	---
W-3665 Pontiac Red	---	---	---	---	---	---
J-9555 Cadillac Red	---	---	---	---	---	---
H-9150 Santa Fe Red	---	---	---	---	---	---
X-5680 Boston Maroon*	---	---	---	---	---	---
X-5749 Stinson Maroon	---	---	---	---	---	---
Standard Colors						
M-9526 Cruiser Orange	---	---	---	---	---	---
C-2065 Ocala Orange	---	---	---	---	---	---
E-6427 Aeronca 7AC Yellow	---	---	---	---	---	---
M-9512 Lemon Yellow	---	---	---	---	---	---
M-9501 AN Orange Yellow	---	---	---	---	---	---
F-6285 Cub J-3 Yellow	---	---	---	---	---	---
M-9521 Lock Haven Yellow	---	---	---	---	---	---
Y-5783 Dallas Yellow*	---	---	---	---	---	---
D-9270 Ag Cat Yellow	---	---	---	---	---	---
N-3353 Federal Yellow	---	---	---	---	---	---
F-2406 Federal Green	---	---	---	---	---	---
F-5830 Montego Green*	---	---	---	---	---	---
Y-6350 Forest Green*	---	---	---	---	---	---
W-3554 Lakeland Blue	---	---	---	---	---	---
W-9506 AN True Blue	---	---	---	---	---	---
H-9170 Bahama Blue	---	---	---	---	---	---
X-5700 Miami Blue	---	---	---	---	---	---
M-9502 Insignia Blue	---	---	---	---	---	---
Z-7245 Sun Valley Ivory	---	---	---	---	---	---
M-9518 Diana Cream	---	---	---	---	---	---
X-5260 Tucson Cream*	---	---	---	---	---	---
Q-1050 New Insignia White	---	---	---	---	---	---
W-9170 Tropic White	---	---	---	---	---	---
K-7641 Vestal White	---	---	---	---	---	---
B-4243 Juneau White	---	---	---	---	---	---
J-9545 Daytona White	---	---	---	---	---	---
Q-1916 Randolph White	---	---	---	---	---	---
F-7790 AG Cat Gray	---	---	---	---	---	---
R-4870 Neutral Gray	---	---	---	---	---	---
R-8174 Platinum Gray	---	---	---	---	---	---
Y-6100 Polar Gray	---	---	---	---	---	---
H-6117 Black	---	---	---	---	---	---
R-8175 Sandalwood*	---	---	---	---	---	---
Y-9775 Hickory Brown	---	---	---	---	---	---
R-4869 Olive Drab* (Glossy)	---	---	---	---	---	---
E-6428 Aeronca 7AC Orange	---	---	---	---	---	---
P-8600 Cessna Tiger Orange	---	---	---	---	---	---
Metallic Colors						
W-8427 Tampa Green*	---	---	---	---	---	---
W-8430 Newport Blue*	---	---	---	---	---	---
M-9514 Silver	---	---	---	---	---	---
B-9916 Reno Gold	---	---	---	---	---	---

How to Order: Use these dash #s to complete Randolph color part #s:

Butyrate: Qts -BQ, Gallons -BG; Example: P-8599-BG

Mark II: Qts -MQ, Gallons -MG; Example M-8599-MG

Ranthane: Qts-RQ, Gallons-RG Example:B-3534-RG

ALL mixed paints are special order and are non-returnable.

Randolph Color Card.....P/N 09-00 401 ..... **FREE**

CS

SUPERFLITE FABRIC COVERING

SUPERFLITE FABRIC COVERING

Superflite manufactures everything you need to cover your airplane-fabric, tapes, accessories, glue, primer, and paint - and it's all approved for use on certified aircraft.

FABRIC

Description	Superflite No	Part No	Price
Cert. 2.7 oz/sq yd - FAA Approved (72" wide)	SF102-2.7 -CERT	09-03132	---
Cert. 3.7 oz/sq yd FAA Approved (72" wide)	SF101	09-03133	---
Non Cert. 1.8 oz/sq yd (71" wide)	SF104A	09-05364	---

SF102 SURFACE TAPES

PINKED 102

Size/Unit	Superflite Part No	Part Number	Price
1" x 50 yd	SF102-1P	09-03134	---
1-1/2" x 50 yd	SF102-15P	09-03135	---
2" x 50 yd	SF102-2P	09-03136	---
3" x 50 yd	SF102-3P	09-03137	---
4" x 50 yd	SF102-4P	09-03138	---
6" x 50 yd	SF102-6P	09-03139	---

STRAIGHT 102

Size/Unit	Superflite Part No	Part Number	Price
1" x 50 yd	SF102-1S	09-03140	---
1-1/2" x 50 yd	SF102-15S	09-03141	---
2" x 50 yd	SF102-2S	09-03142	---
3" x 50 yd	SF102-3S	09-03143	---
4" x 50 yd	SF102-4S	09-03144	---
6" x 50 yd	SF102-6S	09-03145	---

PINKED BIAS CUT 102

Size/Unit	Superflite Part No	Part Number	Price
2" x 25 yd	SF10 2-2PB	09-03146	---
3" x 25 yd	SF102-3PB	09-03147	---
4" x 25 yd	SF102-4PB	09-03148	---

STRAIGHT BIAS CUT 102

Size/Unit	Superflite Part No	Part Number	Price
2" x 25 yd	SF102-2SB	09-03149	---
3" x 25 yd	SF102-3SB	09-03150	---
4" x 25 yd	SF102-4SB	09-03151	---

PRE SHRUNK TAPES 102

PINKED 102-HS

Size/Unit	Superflite Part No	Part Number	Price
1" x 50 yd	SF102-1P-HS	09-03152	---
1-1/2" x 50 yd	SF102-15P-HS	09-03153	---
2" x 50 yd	SF102-2P-HS	09-03154	---
3" x 50 yd	SF102-3P-HS	09-03155	---
4" x 50 yd	SF102-4P-HS	09-03156	---
6" x 50 yd	SF102-6P-HS	09-03157	---

STRAIGHT 102-HS

Size/Unit	Superflite Part No	Part Number	Price
1" x 50 yd	SF102-1S-HS	09-03158	---
1-1/2" x 50 yd	SF102-15S-HS	09-03159	---
2" x 50 yd	SF102-2S-HS	09-03160	---
3" x 50 yd	SF102-3S-HS	09-03161	---
4" x 50 yd	SF102-4S-HS	09-03162	---
6" x 50 yd	SF102-6S-HS	09-03163	---

SF104 SURFACE TAPES

PINKED 104

Size/Unit	Superflite Part No	Part Number	Price
1" x 50 yd	SF104-1P	09-03164	---
1-1/2" x 50 yd	SF104-15P	09-03165	---
2" x 25 yd	SF104-2P-25	09-05776	---
2" x 50 yd	SF104-2P	09-03166	---
3" x 50 yd	SF104-3P	09-03167	---
4" x 50 yd	SF104-4P	09-03168	---
6" x 50 yd	SF104-6P	09-03169	---

STRAIGHT 104

Size/Unit	Superflite Part No	Part Number	Price
1" x 50 yd	SF104-1S	09-03170	---
1-1/2" x 50 yd	SF104-15S	09-03171	---
2" x 50 yd	SF104-2S	09-03172	---
3" x 50 yd	SF104-3S	09-03173	---
4" x 50 yd	SF104-4S	09-03174	---
6" x 50 yd	SF104-6S	09-03175	---

PINKED BIAS CUT 104

Size/Unit	Superflite Part No	Part Number	Price
2" x 25 yd	SF104-2PB	09-03176	---
3" x 25 yd	SF104-3PB	09-03177	---
4" x 25 yd	SF104-4PB	09-03178	---

STRAIGHT BIAS CUT 104

Size/Unit	Superflite Part No	Part Number	Price
2" x 25 yd	SF104-2SB	09-03179	---
3" x 25 yd	SF104-3SB	09-03180	---
4" x 25 yd	SF104-4SB	09-03181	---

PRE SHRUNK TAPES 104

PINKED 104-HS

Size/Unit	Superflite Part No	Part Number	Price
1" x 50 yd	SF104-1P-HS	09-03182	---
1-1/2" x 50 yd	SF104-15P-HS	09-03183	---
2" x 50 yd	SF104-2P-HS	09-03184	---
3" x 50 yd	SF104-3P-HS	09-03185	---
4" x 50 yd	SF104-4P-HS	09-03186	---
6" x 50 yd	SF104-6P-HS	09-03187	---

STRAIGHT 104-HS

Size/Unit	Superflite Part No	Part Number	Price
1" x 50 yd	SF104-1S-HS	09-03188	---
1-1/2" x 50 yd	SF104-15S-HS	09-03189	---
2" x 50 yd	SF104-2S-HS	09-03190	---
3" x 50 yd	SF104-3S-HS	09-03191	---
4" x 50 yd	SF104-4S-HS	09-03192	---
6" x 50 yd	SF104-6S-HS	09-03193	---

ACCESSORIES

ANTI-CHAFE & REINFORCEMENT TAPE

Description	Superflite No.	Part No.	Price
1/4" Sticky Back Tape	SF-REINFTAPE-1/4	09-03196	---
3/8" Sticky Back Tape	SF-REINFTAPE-3/8	09-03197	---
1/2" Sticky Back Tape	SF-REINFTAPE-1/2	09-03198	---
3/4" Sticky Back Tape	SF-REINFTAPE-3/4	09-05363	---
1" Sticky Back Tape	SF-REINFTAPE-1	09-03199	---

RIB BRACING TAPE

Description	Superflite No.	Part No.	Price
1/4" Twill Inner Rib Brace Tape	SF-TWILL-1/4	09-03194	---
1/2" Twill Inner Rib Brace Tape	SF-TWILL-1/2	09-17000	---

RIB LACING CORD

Description	Superflite No.	Part No.	Price
Flat Rib Lacing Cord - 500 yd roll	SF694-500	**09-03201**	---

SEWING THREAD

Description	Superflite No.	Part No.	Price
Hand Sewing Thread - 250 yd	SF-207	**09-03202**	---
Machine Sewing Thread - 1200 yd	SF-69	**09-03203**	---

CS

SUPERFLITE SYSTEM 7 PAINTS

Superflite now has System 7, an all-urethane system, which is the most technologically advanced covering system in the world. System 7 has more durability, flexibility, and affordability than anything else on the market today. We've designed an aircraft covering system that's geared toward the aircraft enthusiast – it's easy to apply, easy to repair, and it provides you with a show-quality finish at a price that's 20% less than the major competition.

SYSTEM 7 URETHANE REDUCERS

Product Description	Part No.	Price
Cool Temperature Reducer: 60-70°	01-01250	---
Medium Temperature Reducer: 70-80°	01-01251	---
Warm Temperature Reducer: 75-85°	01-01252	---
Hot Temperature Reducer: 85° and up	01-01253	---

SYSTEM 7 TOPCOAT CATALYST

Product Description	Part No.	Price
Urethane Paint Catalyst - 1 Quart	09-05596-1	---

SYSTEM 7 FABRIC PRIMER

Product Description	Part No.	Gallon Price	Part No.	Quart Price	Part No.	Pint Price
Fabric Primer Base	01-01256	---	01-01257	---	--	---
Fabric Primer Catalyst	--	--	--	--	01-01258	---

SYSTEM 7 URETHANE TOPCOAT

Hardener for the Superflite urethane topcoats. Mixing ratio is 3 parts paint to 1 part catalyst, or 2 pints per gallon of paint and 1/2 a pint per quart of paint. Shelf life of 2 years unopened, 2 weeks if opened.

Product Description	Part No.	Gallon Price	Part No.	Quart Price	Part No.	Pint Price
Champ Yellow	09-03250	---	09-03251	---	09-04771	---
Diana Cream	09-03252	---	09-03253	---	09-04769	---
Lakeland Blue	09-03256	---	09-03257	---	09-04768	---
Juneau White	09-03258	---	09-03259	---	09-04773	---
Piper Cub Yellow	09-03260	---	09-03261	---	09-04772	---
Lemon Yellow	09-03262	---	09-03263	---	09-04770	---
Bahama Blue	09-03264	---	09-03265	---	09-05371	---
Pepsi Blue	09-03266	---	09-03267	---	09-05372	---
Polar Gray	09-03268	---	09-03269	---	09-05373	---
AN Orange Yellow	09-03270	---	09-03271	---	09-05374	---
Lockhaven Yellow	09-03272	---	09-03273	---	09-05375	---
Insignia Blue	09-03276	---	09-03277	---	09-05376	---
Intense Black	09-03278	---	09-03279	---	09-05377	---
Maule Yellow	09-03280	---	09-03281	---	09-05378	---
Ocala Orange	09-03282	---	09-03283	---	09-05379	---
Lime Green	09-03284	---	09-03285	---	09-05380	---
Sacramento Green	09-03286	---	09-03287	---	09-05381	---
Spitfire Red (Metallic)	09-03288	---	09-03289	---	09-05382	---
Champ Orange	09-03290	---	09-03291	---	09-05383	---
Cessna Tiger Orange	09-03292	---	09-03293	---	09-05384	---
Insignia White	09-03296	---	09-03297	---	09-05385	---
Starlight Blue	09-03298	---	09-03299	---	09-05386	---
Oracle Red	09-03301	---	09-03302	---	09-05387	---
Cessna Sunset Red	09-03303	---	09-03304	---	09-05388	---
Matterhorn White	09-03305	---	09-03306	---	09-05389	---
Daytona White	09-03307	---	09-03308	---	09-05390	---
Spruce Metallic (Metallic)	09-03309	---	09-03310	---	09-05391	---
Cruiser Orange	09-03311	---	09-03312	---	09-05392	---
Insignia Red	09-03313	---	09-03314	---	09-05393	---
Cessna Vestal White	09-03315	---	09-03316	---	09-05394	---
Sun Valley Ivory	09-03317	---	09-03318	---	09-05395	---
Inca Gold (Metallic)	09-03319	---	09-03320	---	09-05396	---
Cadillac Red	09-03321	---	09-03322	---	09-05397	---
Matador Red	09-03323	---	09-03324	---	09-05398	---
Sandalwood	09-03325	---	09-03326	---	09-05399	---
Aztec Silver (Metallic)	09-03329	---	09-03330	---	09-05401	---
Stinson Maroon	09-03331	---	09-03332	---	09-05402	---
Fed-Ex Purple	09-03333	---	09-03334	---	09-05403	---
Hickory Brown	09-03337	---	09-03338	---	09-05404	---
Silverado Silver (Metallic)	09-03339	---	09-03340	---	09-05405	---
Olive Drab	09-05406	---	09-05407	---	09-05408	---
Meadow Green	09-05409	---	09-05410	---	09-05411	---
Medium Gray	09-05412	---	09-05413	---	09-05414	---
Atlas Gray Metallic	09-05415	---	09-05416	---	09-05417	---
Royal Blue	09-05418	---	09-05419	---	09-05420	---

SEM INTERIOR REPAIR PRODUCTS

AEROSPACE SEM SOAP

First step cleaner gravitates into the substrate and floats contaminants to the surface. AEROSPACE SEM SOAP can be used on all substrates. Use AEROSPACE SEM SOAP to clean vinyl and leather seat covers prior to restoring with AEROSPACE SURE-COAT™ or AEROSPACE COLOR COAT.

P/N 09-03588 ..... ---

SEM AEROSPACE PLASTIC & LEATHER PREP

Leaves plastic substrates clean for coating, will not soften or distort plastic; removes contaminants such as mold, release agents, fingerprints and grease. Aerospace Plastic & Leather Prep can be used on all plastics and leather. 12 oz. Aerosol.

P/N 09-03587 ..... ---

SEM LOW VOC RUBBERIZED UNDERCOATING

40523 SEM Low Voc Rubberized Undercoating is a paintable, fast-drying, asphalt free coating for rust proofing, sound deadening, chip resistance and corrosion protection. Less than 40% VOC. 24 oz Aerosol .....P/N 09-03581 ..... ---

SEM TRIM BLACK

SEM Trim Black 39143 is the industry standard for restoring faded and peeling exterior trim parts. This paint coating offers maximum adhesion on stainless steel and chrome.

15 oz. Aerosol .....P/N 09-03579 ..... ---

SEM SELF ETCHING PRIMER

Easy to spray, sands quickly and easily, offers superior adhesion. Excellent coverage and hiding, increases production. Great for spot repairs and overall refinishing.

Black.....P/N 09-03594 ..... ---
Gray.....P/N 09-03595 ..... ---
Green .....P/N 09-03596 ..... ---

SEM COLOR COAT

SEM COLOR COAT is formulated to match, restore or change color on most vinyl surfaces, flexible and rigid plastics, carpet and velour. Fade resistant and flexible, COLOR COAT is not a dye, but a permanent paint coating. 12 oz. aerosol.

Color	Part No.	Price
15453 Gloss White	09-05694	---
15003 Phanton White	09-03556	---
15013 Landau Black	09-03557	---
15043 Shadow Blue	09-03558	---
15103 Super White	09-03559	---
15143 Sandstone	09-03561	---
15163 Presidio	09-03562	---
15173 Camel	09-03563	---
15183 Warm Gray	09-03564	---
15233 Gloss Black	09-03566	---
15243 Satin Black	09-03567	---
15283 Pescadero Sand	09-03568	---
15303 Graphite	09-03569	---
15393 Medium Gray	09-03571	---
15603 Sailcloth White	09-03572	---
15763 Storm Gray	09-03573	---

SEM CLASSIC COAT

SEM CLASSIC COAT uses advanced technology to provide superior adhesion and flexibility when changing or restoring the color of most leather and vinyl. CLASSIC COAT is a fade resistant coating that won't chip or peel and is available in many of today's popular OEM colors. 12 oz.

Color	Part No.	Price
17013 Midnight Black	09-03537	---
17033 Lt. Parchment	09-03538	---
17043 Med Graphite	09-03539	---
17053 Med Parchment	09-03541	---
17083 Dk Graphite	09-03542	---
17093 Black	09-03543	---
17103 Dark Gray	09-03544	---
17013 Lt Gray	09-03546	---
17123 Lt Neutral	09-03547	---
17133 Med Dk Pewter	09-03548	---
17163 Med Gray	09-03549	---
17173 Shale	09-03551	---
17203 Very Dk Pewter	09-03552	---
17243 Ivory	09-03554	---

SEM SOLVE

38373 SEM SOLVE removes adhesives, wax, road tar, grease and paint overspray.

20 oz. Aerosol ..... P/N 09-03577 ..... ---

SEM SAND FREE

38363 SEM SAND FREE softens the substrate promoting adhesion on difficult to sand areas.

16 oz. Aerosol .....P/N 09-03576 ..... ---

SEM VINYL PREP

SEM Vinyl Prep 38343 cleans soil, wax and grease from vinyl substrates while it softens and prepares the surface for adhesion of topcoat. Great for use with SEM flexible coatings.

16 oz. Aerosol.....P/N 09-03575 ..... ---

SEM HIGH BUILD PRIMER SURFACER

Provides superior adhesion, film build and flexibility when priming automotive metal, aluminum, urethane, plastic and other similar substrates. 20 oz. Aerosol.

Gray.....P/N 09-03787 ..... ---
White .....P/N 09-03788 ..... ---

SEM SCUFF & CLEAN

38338 SEM SCUFF & CLEAN prepares bumpers or panels when refinishing or blending. It's abrasive action improves adhesion of repair and refinishing materials.

Pint .....P/N 09-03574 ..... ---

SEM MANUAL APPLICATOR GUN 1.7OZ

An easy loading applicator for dispensing 1.7 oz dual mix cartridges. Material is dispensed quickly and consistently.

P/N 09-03792 ..... ---

SEM QUICK SET NOZZLE 1.7 OZ

Ensures proper mix ratios for 1.7 oz dual cartridges. Quantity 6 per package.....P/N 09-03793 ..... ---

SEM QUICK SET

Black, fast curing urethane adhesive designed for automotive plastic repair. With a 20 or 50 second work time, an excellent choice for quickly repairing bumper brackets, tabs, headlight buckets and grills. It may also be used for bonding backer panels, moldings emblems and most small plastic, metal and aluminum parts.

20 Second .....P/N 09-03790 ..... ---
50 Second .....P/N 09-03791 ..... ---

SEM PLASTIC REPAIR ADHESIVE

Bumper Repair 1oz cartridge, bonds to most automotive bumpers and problem plastics.

P/N 09-03789 ..... ---

SEM AEROSPACE SURE-COAT FLATTENER

Restores aircraft interior leathers, vinyl and plastics at a fraction of the cost of replacement.Cleans, repairs, and restores interiors to a like new condition without changing the aircraft's burn certification .....P/N 09-03586 ..... ---

SEM AEROSPACE SURE-COAT PINT MIXING SYSTEM

A waterborne coating system offering excellent flexibility and outstanding adhesion for a variety of interior and exterior automotive, marine, aerospace and commercial applications. Allows the user to change or enhance the current color while maintaining the texture and look of leather, vinyl and plastic. It will not get brittle with age nor soften or crack within normal temperature ranges. Contains 9 toners and 3 clears that can be mixed to match almost any color and dries quickly when brushed or sprayed. Also includes: Pint labels and A70034 Fleet Color Selector

Gallon Kit.....P/N 09-04435 ..... ---

Individual Colors

Black Pint.....P/N 09-03746 ..... ---
Red Pint.....P/N 09-03747 ..... ---
Quindo Red pint.....P/N 09-03750 ..... ---
White Pint .....P/N 09-03748 ..... ---
Yellow Oxide Pint .....P/N 09-03751 ..... ---
Silver Pint .....P/N 09-05778 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

3M™ STIKIT™ DISC PAD 05575

For use with 5 diameter Stikit™ Discs. Has medium density foam and a 45° tapered edge for flexibility. These lightweight, shock-resistant pads have a vinyl face (blue) that provides excellent disc adhesion yet allows quick, easy removal. Blue

5" x 3/4" ..... P/N 09-01535 ..... ---

3M™ STIKIT™ DISC HAND PAD

Use with 5 diameter Stikit™ Discs. Made with soft density foam for conformability. Has 1 inch wide strap for holding the pad to the operators hand.

P/N 09-01448 ..... ---

3M™ STIKIT™ PAPER DISC ROLL

Constructed of durable aluminum oxide; works well for most wood species. The open coat feature provides a more aggressive cut than a comparable closed coat abrasive of the same grade and a special loading resistant coating makes this disc a good choice when loading is a problem. The C weight, paper backing is more durable for extended disc life and harsher sanding applications.

Style #	Grade	Weight	Size	Qty.	Part No.	Price
236U	P80	C	5" x NH	100	09-01572	---
236U	P100	C	5" x NH	100	09-01573	---
236U	P120	C	5" x NH	100	09-01574	---
236U	P180	C	5" x NH	100	09-01576	---
236U	P220	C	5" x NH	100	09-01577	---
236U	P240	C	5" x NH	100	09-01578	---
415U	120	A	5" x NH	125	09-01560	---
415U	180	A	5" x NH	250	09-01562	---

3M™ SCOTCH-BRITE™ GENERAL PURPOSE HAND PAD

Scotch-Brite™ General Purpose Hand Pad 7447 combines flexibility with effective cutting action and precise hand control to accomplish tough cleaning jobs or produce fine finishing results, use after use. Very fine grade aluminum oxide abrasives cut fast and fine, leaving a smooth, finished surface. Suitable for use on a wide variety of materials and for many different tasks. Superior alternative to steel wool, wire brushes, sandpaper, and other nonwoven products for cleaning or finishing tasks.

1 each..... P/N 09-01503 ..... ---
Box of 20 pads..... P/N 09-01503-20 ..... ---

3M™ SCOTCH-BRITE™ HEAVY DUTY HAND PAD 7440

Tight and dense, this pad is the most aggressive and durable web. Excellent for heavy cleaning, deburring, and finishing. May be used by hand, with a hand pad block or on an in-line sander. Grade: Medium

6"x9" ..... P/N 09-01504 ..... ---

3M™ SCOTCH-BRITE™ LIGHT DUTY CLEANSING PAD

Conformable web and fine mineral are excellent for fine finishes, light cleaning. Among our least aggressive abrasive hand pad. May be used by hand, with a hand pad block or on an in-line sander. Grade SFIN.

P/N 09-01415 ..... ---

3M™ SCOTCH-BRITE™ SR RADIAL BRISTLE DISC

Bristles are idea for cleaning, blending and deburring.

2" ..... P/N 09-01416 ..... ---
3" ..... P/N 09-01417 ..... ---

3M ROLOC DISC PAD

Backup pad designed to support 3M™ Roloc™ abrasive discs. Conveniently mounts directly to tools with 1/4-20 EXT threaded shafts or used with Roloc™ shank to fit collet chuck tools.

1.5" ..... P/N 09-02131 ..... ---

3M™ SCOTCH-BRITE ULTRA FINE HAND PAD

Scotch-Brite™ Ultra Fine Hand Pad 7448 combines durability for long life, flexibility for reaching tight areas, and can be used in place of steel wool for conditioning metal surfaces and paint prep. Unlike fine steel wool, Scotch-Brite pads will not shred during use, rust after use, or leave fine metal splinters.

Single Pad ..... P/N 09-01753 ..... ---
Box of 20 Pads..... P/N 09-01753-20 ..... ---

3M SCOTCH BRITE GENERAL PURPOSE PAD 96

Non-rusting and resilient high quality synthetic fibers to provide pad durability and long lasting usage. Abrasive minerals selected to provide superior scouring for common cleaning jobs. Abrasive mineral particles evenly distributed throughout the pad to help ensure effective, consistent, and long lasting performance throughout the life of the pad. High quality bonding resin system designed to provide resistance to degradation from exposure to hot water, detergents and normal cleaning liquids..... P/N 09-05365 ..... ---

3M™ WETORDRY™ PAPER SHEET 431Q

A silicon carbide Wetordry™ abrasive product constructed on an A weight, intermediate paper backing. Can be run wet or dry.9"x11" sheets.

Grade	Part No.	Price
600	09-01446	---
400	09-20900	---
320	09-20800	---
240	09-01529	---

Grade	Part No.	Price
220	09-20600	---
150	09-01532	---
120	09-20550	---
100	01-37700	---

3M™ SCOTCH-BRITE™ CLEAN AND FINISH

Flexible web for finishing, blending, and polishing. Conformable for access to hard-to-reach areas. Great for general use on a variety of materials. Use manually or on an in-line sander.

Description	Size	Part No.	Price
3M Clean and Finish Medium	4" x 30 FT. Roll	09-01500	---
3M Clean and Finish Fine	4" x 30 FT. Roll	09-01501	---

3M™ ROLOC™ DISC PAD ASSEMBLY

Rubber backup pads available in different degrees of hardness for varying grinding applications. Backup pad designed to support 3M™ Roloc™ abrasive discs. This pad has a ¼-20 INT thread which allows it to be mounted directly to tools with ¼-20 EXT threaded shaft or the included 1/4" diameter shank that fits 1/4" collet chucks or drill chucks.

Description	Part No.	Price
45902 - 3" Med. Disc Pad and Shank	09-02129	---
Replacement Parts	**Part No.**	**Price**
1/4 inch Diameter shank	09-01557	---

3M™ SCOTCH-BRITE™ ROLOC™ TR SURFACE CONDITIONING DISC

A non-woven abrasive product used for cleaning, finishing, blending and deburring applications. A threaded attachment system secures the disc to the holder.

Grade	Size	Part No.	Price	Grade	Size	Part No.	Price
ACRS	1.5"	09-01510	---	AVFN	2"	09-01505	---
AMED	1.5"	09-01511	---	AMED	3"	09-01509	---
AVFN	1.5"	09-01512	---	ACRS	3"	09-01508	---
ACRS	2"	09-01506	---	AVFN	3"	09-01507	---

3M™ SCOTCH-BRITE™ ROLOC™ TR EXL UNITIZED WHEEL

High performance and durability for deburring and finishing applications. Threaded attachment system secures the wheel to the holder.

Size	Grade	Part No.	Price
2"	MED 2A	09-01514	---
2"	MED 6A	09-01516	---
3"	MED 6A	09-01517	---

3M™ SCOTCH-BRITE™ ROLOC™ BRISTLE DISC

Brush-like bristle disc removes coarse coatings from the large, open areas of a work piece. Works on right angle tools quickly and easily with little or no pressure.

Size	Grade	Part No.	Price
2" x 5/8"	Tapered 120 GRDE	09-01520	---
2" x 5/8"	Tapered 50 GRADE	09-01518	---
2" x 5/8"	Tapered 80 GRADE	09-01519	---

3M PERFECT-IT FOAM POLISHING PAD

Double sided foam polishing pad with quick connect. Provides high-gloss shine. For use with A Quick Connect Adaptor. High Performance Black Foam Polishing Pad. Removes compound swirl marks and fine paint surface defects. Unique quick connect design. The Perfect-It brand means this is 3M's highest performing double sided foam polishing pad.. P/N 09-03809 ..... ---

3M SCOTCH BRITE HEAVY DUTY PAD 86

Tough fibers and abrasives to clean grills and ovens and remove baked-on food from pots and pans. Fiber: the product contains durable synthetic fibers that are crimped and heat set to develop a strong open web. Mineral: the product contains abrasive particles that are effective in scrubbing operation. These particles are evenly distributed throughout the pad to help ensure consistent performance. Resin: the product is constructed with resin that resists degradation from exposure to hot water, detergents and normal cleaning liquids ..... P/N 09-05366 ..... ---

CS

3M™ GREEN CORPS™ CUT OFF WHEEL

Wheel is designed to provide high cut rates and long life on most all materials including fiberglass, stainless steel, mild steel and aerospace alloys. Ideal for use on a wide variety of utility type cut off tools. Do not use on tools without guards.
4"X1/32"X3/3/8".....P/N 09-01524 ..... ---

3M™ SCOTCH-BRITE™ DEBURRING WHEEL

Two Styles Available: Cut & Polish/Unitized Wheel-7A Medium grade (harder) Use to radius and deburr edges of aluminum parts. These wheels give a uniform brushed satin finish to parts and deburr quicker and easier than hand finishing. These wheels are discs of Scotch-Brite web compressed and bonded to form a rugged, dense wheel. Wheel size: 6" dia. x 1" wide x 1/2" thru hole.
P/N 12-00875 ..... ---

Light Deburring Wheel-7S Fine Grade (Softer)
Light deburring 7S Fin 6 x 1 x 1. This wheel has a 1" thru hole. To fit 1/2" order P/N 12-01585.....P/N 12-00948 ..... ---

9S Deburring Wheel - Fine Grade (Softer) - 1" thru hole
P/N 09-05641 ..... ---

3M Flange Adapter 3 45035 1/2".....P/N 12-01585 ..... ---

3M™ ROLOC DISC PAD

3M™ Roloc™ Disc Pad TR 45092, Medium 3" 1/4-20 Internal. 3M™ Roloc™ Disc Pad optimizes the performance of Roloc™ discs and bristle discs by providing the right backup system and a secure attachment for grinding applications. Plus it saves time by eliminating the need to align edges of the disc with the disc pad—the screw aligns the disc, making disc changes quick and easy..... P/N 09-01554 ..... ---

3M 5 INCH 80 GRIT SANDING DISC

3M SandBlaster 5" 8 Hole Sanding Disc. 80 grit disc, designed for moderate stripping and surface leveling. Premium Cubitron™ ceramic mineral. Clog-resistant. Designed for use on random orbital sanders. Stays significantly sharper longer to sand faster than 3M conventional sandpaper of comparable grit. Use on wood, oil enamel, latex primer, lacquer, sanding sealer and other coatings..... P/N 09-05427 ..... ---

3M™ SCOTCH-WELD™ EPOXY ADHESIVE DP125 DUO-PAK

Two-part epoxy adhesive with a 1:1 mix ratio, 25 minute work life and exhibits very high peel strength. Moderately flexible and the gray version has exceptional shear adhesion. Use to bond rubber, metal, wood, plastics, and masonry products.

Size	Color	Part No.	Price
1.7 oz	Gray	09-01403	---
1.7 oz	Translucent	09-01402	---

3M SCOTCH-WELD GRAY

3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS is a gray structural adhesive with high overlap shear and peel strength with good impact resistance and durability. This adhesive was designed to bond permanently to bare metals with minimal surface preparation, but also bonds well to wide variety of other materials, including most plastics.
45ml.....P/N 09-04774 ..... ---
90ml.....P/N 09-04775 ..... ---

3M™ SCOTCH-WELD™ EPOXY ADHESIVE 2216 B/A

A flexible, two part, room temperature curing epoxy with high peel and shear strength. Scotch-Weld epoxy adhesive 2216 B/A is identical to 3M™ Scotch-Weld™ Epoxy Adhesive EC-2216 B/A in chemical composition. Scotch-Weld epoxy adhesive EC-2216 B/A has been labeled, packaged, tested, and certified for aircraft and aerospace applications. Scotch-Weld epoxy adhesive 2216 B/A may be used for aircraft and aerospace applications if proper Certificates of Test have been issued and material meets all aircraft manufacturer's specification requirements. 24 month shelf life.

Size	Color	Description	Part No.	Price
2 oz.	Gray	Adhesive 2216 B/A	02-00045	---
Pint	Gray	Adhesive 2216 B/A	02-00113	---
Quart	Gray	Adhesive 2216 B/A	02-00114	---

3M™ SCOTCH-WELD EPX 10 TO 1 MIXING NOZZLE

3M Scotch-Weld EPX Square Orange Mixing Nozzle is designed to be used with 10:1, 45 mL Duo-Pak cartridges. It has a tapered tip that can be cut to adjust bead size for smooth even application.
Specifications: • Typical Use: Mixing nozzle for 10:1 45 mL Duo-Pak cartridges, and the EPX Plus II applicator • Brand: Scotch-Weld • Color: Orange.....P/N 12-05508 ..... ---

3M™ HI-STRENGTH 90 SPRAY ADHESIVE

3M™ Hi-Strength 90 Spray Adhesive is a fast-drying, transparent spray adhesive that bonds on concrete, wood, MDF, laminates, polyethylene and more. Its extremely strong bond gives you fast results to keep projects moving forward. This industrial grade formula is easy to dispense and apply directly to surfaces and materials and provides the added benefit of high heat and moisture resistance.
24 oz .....P/N 09-01376 ..... ---

3M™ HI-STRENGTH SPRAY ADHESIVE 90 LOW VOC

3M™ Hi-Strength 90 CA Spray Adhesive - Low VOC <25% is an extremely versatile, fast-drying spray adhesive that bonds strongly to a wide range of materials. The spray formula is easy to dispense and offers a variable-width spray pattern, applying directly onto surfaces and materials where needed. This permanent bond provides fast results to keep projects moving ahead .....P/N 09-06162 ..... ---

3M™ SCOTCH-WELD™ INSTANT ADHESIVE SURFACE ACTIVATOR

It is ideal for use with all 3M Cyanoacrylate Adhesives for a broad range of industrial and electronic applications. It is also ideal for use with CA-5, CA-9, or CA-50 Gel for many wire tacking and coil terminating applications.
P/N 09-01407 ..... ---

3M™ SCOTCH-WELD™ EPX™ PLUS II APPLICATOR

This Plunger is for the Scotch-Weld™ EPX™ Plus II Applicator. The Scotch-Weld™ EPX™ Plus II Applicator is used to Dispense 3M™ Scotch-Weld™ Adhesives in Duo-Pak Cartridges. The applicator is a low-cost portable, self contained metering, mixing and dispensing machine that simultaneously meters and mixes two-part adhesives as the material is applied.
50 mL Mixing Nozzle 9742 .....P/N 09-01372 ..... ---

3M™ SCOTCH-WELD™ EPX™ APPLICATOR NOZZLE

Applicator nozzle designed for both the 200 mL and 400 mL applicators.....P/N 09-01408 .....

3M™ SCOTCH-WELD™ INSTANT ADHESIVE CA40H

One-part, high strength, very fast setting adhesive cures at room temperature. Adheres to difficult to bond substrates such as EPDM rubber, aluminum, and flexible vinyl. Comes in a 1 oz. Bottle. Clear. .....P/N 09-01368 ..... ---

3M™ SCOTCH-WELD™ INSTANT ADHESIVE CA8

This instant adhesive has a fast set time of 5 to 40 seconds. Excellent adhesion on metal, plastic and rubber. Bonds resist shock and impacts. A cyanoacrylate adhesive. Comes in a 1 oz. bottle. .....P/N 09-01366 ..... ---

3M™ SCOTCH-GRIP™ CONTACT ADHESIVE

A brushable, neutral-colored contact adhesive for bonding many decorative laminates, aluminum, steel, plywood, panels, wood and wood veneer, masonry, rubber, canvas and other porous and non-porous materials to each other or to themselves.....P/N 09-01364 ..... ---

3M™ SCOTCH-WELD EPX PLUS II 1 TO 1 OR 2 TO 1 PLUNGER

3M Scotch-Weld EPX Plus II Applicator is designed to be used with any 1:1, 2:1 and 10:1 ratio 50 mL duo-pak cartridges. Kit comes with 1 applicator and 2 plungers, one each for 1:1/2:1 and 10:1 ratios.
P/N 03-00256 ..... ---

3M™ SCOTCH-WELD EPX SQUARE GREEN 48.5ML MIXING NOZZLE

3M Scotch-Weld™ EPX Square Mixing Nozzle Green is used to mix urethane adhesives in 48.5 or 50 mL cartridges with the 3M Scotch-Weld EPX Plus II Applicator.....P/N 03-00257 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

3M™ SCOTCH GRIP RUBBER ADHESIVE 1300

Lower viscosity, sprayable version of Scotch-Weld Neoprene High Performance Rubber and Gasket Adhesive 1300. Has excellent adhesion to metal, baked enamel, wood, most plastics, and neoprene, reclaim, SBR, and butyl rubber. not for EPDM rubber. **Color: Yellow**

Attention: Volatile Organic Compounds (VOCs) Government Regulations: Product cannot be purchased, sold or used in the states listed below. CA, CT, DC, DE, IL, IN, ME, MD, MA, MI, NH, NJ, NY, OH, PA, RI, VA

Viscosity	UPC	Size	Part No.	Price
Low	1300L	Quart	09-27220	---
	1300L	Gallon	09-01712	---
	1300L	5 Gallon	09-01713	---
High	1300	5 oz.	09-01708	---
	1300	Quart	09-01709	---
	1300	Gallon	09-01710	---
	1300	5 Gallon	09-01711	---

3M™ GENERAL PURPOSE ADHESIVE CLEANER

3M is a diversified technology company with a worldwide presence in the following markets: consumer and office; display and graphics; electro and communications; health care; industrial; safety, security and protection services; and transportation. 3M is a global enterprise characterized by substantial intercompany cooperation in research, manufacturing and marketing of products.

P/N 09-06116 ..... ---

3M™ HEADLIGHT LENS RESTORATION SYSTEM

With the 3M™ Headlight Lens Restoration System, you will use a 1200-1600 rpm drill equipped with a backup pad and sanding discs to remove the yellowed layer from the headlight lens surface. A higher rpm drill could generate excessive heat and can cause damage to the headlight lens that is difficult to remove.

Kit Includes: 1 - Disc Pad Holder 1 - 3M™ Soft Interface Pad 6 - 3M™ Sanding Discs 4 - 3M™ Finishing Discs 1 - 3M™ Trizact™ Disc 1 - 3M™ Headlight Lens Polish, 1oz 1 - Buffing Pad 1 - Step by Step Directions.....P/N 09-02109 ..... ---

3M™ SCOTCH-GRIP™ RUBBER AND GASKET ADHESIVE 847

A premium quality, reddish brown, multi-purpose adhesive. Develops strong flexible bonds very rapidly to a wide variety of substrates, including many plastics and rubbers, gasketing materials and leather. Has exceptional resistance to most fuels and oil.....P/N 09-01361 .....

3M™ LIGHTWEIGHT BODY FILLER

Cures tack-free in 15-20 minutes — reduces sandpaper loading. Creamy texture. Smooth spreading. Easy smoothing. Vacuum processed to minimize pinholes.

Quart .....P/N 09-01428 ..... ---
Gallon.....P/N 09-01429 ..... ---

SUPER DOOR SEAL ADHESIVE

Super adhesive for door seals and other applications. Many customers have had difficulty finding EC1300L adhesive (or equivalent). This super adhesive has exceptional bonding strength, is fast drying, and firmly bonds the seals making your installation easier! They recommend you order the adhesive when you order your new seals. One tube is enough for installing all the seals on your aircraft when applied in accordance with the seal installation instructions. A free acid brush is included with each order.

P/N 09-27200 ..... ---

PREKOTE WIPES

PreKote® Surface Pretreatment Wipes are a non-chrome surface wipe utilizing a safe, hazard free technology for use in the painting and coating industry. PreKote® single-use application wipes offer improved paint flexibility, and advanced corrosion protection on painted surfaces when used as part of a coating system.

Canister of 50 .....P/N 09-05541 ..... ---

3M™ PERFECT-IT™ BACKUP PAD

Enables 3M™ Superbuff™ Compound Pad users to use the 3M™ Perfect-It™ Foam Polishing Pad without having to remove the 3M™ Superbuff™ Adaptor 05710 from the shaft of the polisher. Fits all standard 5/8 in shaft slow-speed polishers. 7" x 3/4".

P/N 09-01426 ..... ---

3M™ OVERSPRAY PROTECTIVE SHEETING MASKER

Portable masker designed to dispense Overspray Protective Sheeting (P/N06727). Can be used horizontally, vertically or wall mounted. Spring loaded end frame designed for easy loading of Overspray Protective Sheeting. Paper is not included with masker .....P/N 09-01441 ..... ---

3M™ ADHESIVE REMOVER

Provides easy clean up of most types of adhesives. Quickly removes waxes, road tars, grease, oil and similar materials. Will not harm paint, vinyl or fabrics when properly used.

Attention: Volatile Organic Compounds (VOCs) Government Regulations: Product cannot be purchased, sold or used in the states listed below. CA, CT, DC, DE, IL, IN, ME, MD, MA, MI, NH, NJ, NY, OH, PA, RI, VA. 24 oz. Can.

Pale yellow in color .....P/N 09-01379 ..... ---

3M™ STAINLESS STEEL CLEANER AND POLISH

Ideally suited for stainless steel, chrome, laminated plastics and aluminum surfaces. With a high-gloss formula, it wipes clean with no streaks or buildup, resists fingerprints and masks surface blemishes. Pleasant lime fragrance. Contains no petroleum distillates.....P/N 09-01721 .....

3M™ 5-WAY PENETRANT

Multi-purpose product that is effective as a demoisturant - displaces moisture and "dries out" electrical apparatus.

Attention: Volatile Organic Compounds (VOCs) Government Regulations: Product cannot be purchased, sold or used in the states listed below. CA, CT, DC, DE, IL, IN, ME, MD, MA, MI, NH, NJ, NY, OH, PA, RI, VA.

24. oz. Can.

Light Amber in color .....P/N 09-01370 ..... ---

3M™ HIGH PERFORMANCE INDUSTRIAL PLASTIC ADHESIVE

3M™ High Performance Industrial Plastic Adhesive 4693 dries quickly with an open bond time of approximately 20 minutes. Its assembled bonds are proven to be strong while resisting weathering as well as damage from water and the sun. Additionally, it bonds well to plastics, providing long-term adhesion as well as good resistance to cleaning products. • High performance adhesive forms strong bonds on most plastics, polypropylene (PP), polyethylene (PE) and polyolefin blends (TPO) • Bonds well to other plastics, such as ABS, PMMA and nylons, polyesters, rigid polystyrene • Resists weathering, water and cleaning products • Provides strong, quick drying flexible bonds • 4693 is best applied with a brush .....P/N 09-05775 ..... ---

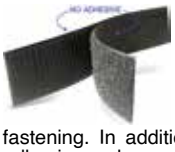
PREKOTE SURFACE PRETREATMENT

PreKote® Surface Pretreatment from Pantheon Chemical, is a non-chromated surface pretreatment utilizing a safe, hazard-free technology that is flying on over 1,500 United States Air Force aircraft. PreKote® offers superior adhesion, improved paint flexibility, and advanced corrosion protection on painted surfaces, relative to traditional chromate and conversion pretreatments (such as alodine). PreKote® has passed stringent testing by the U.S. PreKote® can be used on a wide range of surfaces including aluminum, steel, magnesium, titanium, CRES, galvanized surfaces, composite and plastic surfaces. Consistent, high performance results are achieved with a variety of paints and primers. PreKote® is non-toxic, non-corrosive, non-flammable, CFC free, ODS free, odor free, and readily biodegradable upon disposal. **Features**: • Easy & safe process • Quantified superior results • Immediate cost reductions • Reduces hazardous waste • Decreases material, labor, and hazardous handling costs • Results in a high-performing surface finishes • No short and long term health risks.

Prekote Large area repair kit.....P/N 09-00829 ..... ---

Size	Part No.	Price
1 Quart	09-00825	---
1 Gallon	09-00826	---
5 Gallon	09-00827	---
55 Gallon	09-00828	---

3M™ SCOTCHMATE™ VELCRO FASTENING TAPES



RECLOSABLE FASTENER HOOK

Its as simple as pressing together and pulling apart. When your product calls for thousands of easy openings and closings, 3M™ Scotchmate™ Reclosable Fasteners pull through for you. Tiny, stiff hooks mesh with pliable loops for quick secure fastening. In addition, provide a solution as strong as you need. No adhesive, nylon and sewable hook so can be easily attached to many substrates. Sold by the foot.

Velcro Fastening Tape 2" Black.....P/N 09-22223 ..... ---
Hook 2" SJ3402.....P/N 09-01388 ..... ---
Loop 2" SJ3401 .....P/N 09-01387 ..... ---

VELCRO FASTENING TAPES

Consists of a set of 2 mating 1" wide black Nylon tapes, which, when pressed together, lock tightly and hold until peeled apart.Tapes have pressure-sensitive adhesive backs. Ideal for use in cockpit to mount pilot supplies or as an upholstery and rug attachment. An effective fastening material - applications are unlimited. Sold by the yard.

Velcro Fastening Tape 1" Black.....P/N 09-31400 ..... ---
Loop 1" SJ3571.....P/N 09-00251 ..... ---
Hook 1" SJ3572.....P/N 09-00250 ..... ---

3M SCOTCHMATE 2" LOOP SJ3572

It's as simple as pressing together and pulling apart. When your product calls for thousands of easy openings and closings, 3M ™ Scotchmate ™ Reclosable Fasteners pull through for you. Tiny, stiff hooks mesh with pliable loops for quick secure fastening. In addition, Scotchmate reclosable fasteners are backed with 3M adhesive technology expertise which range from rubber adhesives to high performance, double-coated foam tape which can be adhered to most surfaces to provide a solution as strong as you need. Premium performance nylon hook with VHB™ Tape for high temperature resistance and great shear performance. Sold by the foot.

Velcro Fastening Tape 2".....P/N 09-01656 ..... ---
2" Loop SJ3572.....P/N 09-01653 ..... ---
Hook 2" SJ3572.....P/N 09-01652 ..... ---

3M FLAME RETARDENT VELCRO FASTENER

Flame resistant, rubber adhesive, nylon, woven loop reclosable fastener and meets F.A.R. 25.853 paragraph (a)(1)(i) 60 second vertical burn test. Mates with SJ3519FR, black.

This flame resistant product is coated with a unique flame resistant synthetic rubber based adhesive. High temperature performance. Bonds wells to paper and cardboard, paint, bare and painted metal, glass, sealed wood and many plastics.

Hook 2" x 50 yds. .....P/N 09-02598 ..... ---
Loop 2" x 50 yds.....P/N 09-02597 ..... ---

3M NON-ADHESIVE 1" FASTENER LOOP

• When paired with 3M™ Hook Fasteners, this reclosable fastener provides durability for thousands of openings and closures • Woven nylon loop fastener provides great design flexibility and fast product assembly • No adhesive or liner allows for attaching by sewing or with hot melt or liquid adhesives • Alternative solution to zippers, screws, snaps and more • Features good temperature resistance of 200°F (93°C) • Good for either indoor or outdoor use

3M™ Loop Fastener SJ3401 is one part of a two-part fastener solution designed to provide great durability for thousands of closures. The non-adhesive fastener is most commonly sewn, but can be attached with a variety of hot melt or liquid adhesives. This fastener allows for easy and convenient attachment to a variety of substrates.

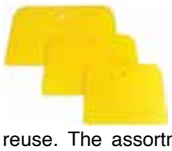
1" wide. Color: Black.....P/N 09-05513 ..... ---

3M NON-ADHESIVE 1" FASTENER HOOK

3M non-adhesive fastener provides a tailored appearance for garments and fabrics. Provides adjustable closure, and are washable and dry cleanable.

1" wide. Color: Black.....P/N 09-00250 ..... **---/yd**

3M™ SPREADERS



3M™ Spreader Assortment offers an array of different spreaders that are intended for spreading body and fiberglass fillers, finishing putties and resins. They have sharp edges, are flexible, durable, and easy to clean. Cured filler pops off, allowing for reuse. The assortment consists of one each (four-inch, five-inch and six-inch spreaders). **Specifications**: • Applications: Small Dent Repair • Brand: 3M™ • Colour: Yellow • Length: 6 Inch • Length (Metric): 152.4 mm • Material: Fiberglass/Resin

4" .... P/N 09-01435.....--- Assortment..... P/N 09-01436 ..... ---

3M™ GLASS CLOTH TAPE 398FRP

Flame Retardant Sealing Tape 398FRP is a glass cloth tape with an acrylic adhesive for many applications requiring high adhesion, an abrasion-resistant backing and flame retardant properties. The tape meets flame retardancy requirements of F.A.R.

2"x36 yards.....P/N 09-01728 ..... ---
3"x36 yards.....P/N 09-02135 ..... ---

3M™ VHB™ TAPE 4950

45.0 mil thick, white closed cell acrylic foam carrier with all purpose acrylic adhesive and paper liner. High strength, handling convenience, cushioning, damping and impact resistance. UL listing 746C. White. **Features**: • Fast and easy-to-use permanent bonding method provides high strength and long-term durability • Virtually invisible fastening keeps surfaces smooth • Can replace mechanical fasteners (rivets, welds, screws) or liquid adhesives • White, 0.045 in (1.1 mm), general purpose adhesive and firm acrylic foam core. 2"x36yds .....P/N 09-01389 ..... ---

3M SUPER 33 BLACK VINYL ELECTRICAL TAPE

Scotch® Super 33+™ Tape is an abrasion-resistant tape that offers electrical and mechanical protection with the combination of an aggressive, rubber-resin adhesive and an elastic PVC backing. This tape is highly resistant to UV rays, moisture, alkalis, acids, corrosion and varying weather conditions. It is a ideal choice for providing a protective jacket for low- and high-voltage buses, as well as harness cables/wires. This tape is compatible with solid, dielectric cable insulations, rubber and synthetic splicing compounds, as well as epoxy and polyurethane resins.

3/4 inch.....P/N 09-05422 ..... ---
1 1/2 inch.....P/N 09-05714 ..... ---

3M™ VINYL TAPE

3M™ Vinyl Tape 471, ideal for masking, wrapping or sealing many curved or irregular surfaces, excellent for many lane and safety marking applications, ideal for color coding, abrasion protection, decoration and splicing applications

Color	Size	Part No.	Price
Black	2" x 36 Yards	09-02179	---
White	1" x 36" Yards	09-02076	---

3M™ SCOTCH® FINE LINE TAPE 218

This 3M tape is particularly suitable for pin striping, multicolor and other custom painting applications. It is a thin, conformable green polypropylene film tape with a special finish that resists paint runoff. The adhesive adheres instantly and offers good holding power, resists lifting and curling. Stretchable and easy to handle. Provides an extremely fine color-line separation for decorative painting of aircraft. Scotch No. 218.

Width	Length	Part No.	Price
1/8"	60 Yards	09-20200	---
1/4"	60 Yards	09-20300	---
1/2"	60 Yards	09-20400	---
3/4"	60 Yards	09-20500	---
1"	60 Yards	09-01348	---

3M™ SAFETY WALK SHEET

A durable, mineral coated, non-slip fabric for wing walks. Waterproof, weatherproof and unaffected by vibrations, heat, cold, gasoline or oil. Assures safe footing. Pressure-sensitive backing should have additional coating of 3M 1300L to assure adhesion for aircraft applications.

COMFORMABLE TREADS		
Description	**Part No.**	**Price**
Safety Walk 510 2" W	09-01485	---
Safety Walk 510 4" W	09-01486	---
GENERAL PURPOSE		
Description	**Part No.**	**Price**
Safety Walk 24" W	09-31675	---
Safety Walk 610 2" W	09-01482	---
Safety Walk 610 4" W	09-01483	---
Safety Walk 610 12" W	09-32250	---
Safety Walk 610 18" W - General Purpose	09-05320	---
Safety Walk 610 24" W - General Purpose	09-31675	---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

3M™ ALUMINUM FOIL TAPE 425

Dead-soft aluminum foil tape. Applications include masking of sensitive components to protect from damage during aircraft paint stripping. In white goods appliances, tape provides an excellent moisture barrier, helps reflect and dissipate heat.

Size	Part No.	Price
1.5" x 60 Yards	09-01382	---
1" x 60 Yards	09-01381	---
2" x 60 Yards	09-01383	---
3" x 60 Yards	09-01385	---

3M™ DOUBLE COATED FILM TAPE 415

A medium-firm, acrylic, pressure sensitive adhesive that featuring an excellent balance of good initial adhesion (quick stick) and good shear holding power. It is ideal for bonding together a wide variety and dissimilar materials such as metals, glass, wood, paints, and many plastics. White
2" x 36yds .....P/N 09-01343 ..... ---

3M™ EAR PLUGS 1100

Smooth dirt resistant surface, tapered design to fit the ear canal, provide added comfort and hygiene. Hypoallergenic material. Each box contains 200 pairs, and each package is easy to dispense. Noise Reduction Rating: 29dB* .....P/N 09-01493 ..... ---

3M™ SCOTCH® HIGH PERFORMANCE MASKING TAPE 232

A high performance paper masking tape to be used in the medium temperature paint bake operation. A smooth crepe paper tape that is treated with a heat and solvent resistant coating.

Size	Part No.	Price
48MM	09-01340	---
72MM	09-01331	---

3M™ MASKING POLY TAPE 5903 (RED)

5903 is a poly tape comprised of heavy duty polyethylene film and synthetic rubber adhesive. It is UV weather resistant and removes cleanly for up to a month with little or no adhesive residue on most opaque surfaces without deteriorating or fading. Used for window and door masking, outdoor holding and protecting surfaces including stucco, concrete, brick, and a variety of construction surfaces where removability is important .....P/N 09-02136 ..... ---

3M™ ALUMINUM PROP TAPE

3M™ Aluminum Foil Tape 427, dead-soft aluminum foil backing, excellent heat and light reflection to protect against high temperatures and U.V. degradation. The foil also serves as an excellent barrier against moisture, dust, flame, and certain chemicals as used in aircraft paint stripping masking. Acrylic adhesive supplies superior temperature, U.V. and solvent resistance. It provides excellent age life and is ideal for harsh, long-term outdoor environments. Meets F.A.R 25.853(a), O447 **Sold by the Foot**.....P/N 15-04831 ..... ---

3M™ SCOTCH® SAFERELEASE™ BLUE PAINTERS MASKING TAPE 2090

Ideal for long-term masking projects when tape must be left on for up to a week. Removes cleanly and easily for up to seven days without leaving adhesive residue.

Size	Part No.	Price
1 inch	09-01421	---
1-1/2 inch	09-01422	---
2 inch	09-01423	---

3M™ SCOTCH® STEEL GRAY MASKING PAPER

Strong, flexible and pliable. Formulated to resist penetrations of solvents, lacquers or enamels. Comes in 1000 rolls.

Description	Part No.	Price
Gray Masking Paper 12"	09-01353	---
Gray Masking Paper 18"	09-01354	---
Gray Masking Paper 24"	09-01355	---
Gray Masking Paper 36"	09-01356	---

3M™ NOVEC™ CONTACT CLEANER

Effectively removes light oils, greases, silicones, dust and particulates from sensitive electrical and electronic equipment. It is compatible with plastics, is non-flammable, non-ozone depleting and contains no HCFCs, HFCs, nPB or HAPs. 11oz can, 6 can per case .....P/N 09-01704 ..... ---

3M™ BODY FILLERS

3M premium fillers with adhesion promoters, offer the very best in all-around performance. Our premium fillers adhere to virtually any surface including wood, metal, aluminum, galvanized steel, fiberglass and concrete. They are also non-staining, non-shrinking, creamy and are great for building plugs, patterns, molds, prototypes and general repair to composite parts. 3M premium fillers are easy to sand and are manufactured with only the highest quality ingredients.
Gallon .....P/N 01-01091 ..... ---

STANDARD BODY FILLERS

3M standard fillers are the economical choice for gap filling, fairing, smoothing and general repair. They are also great for plug, pattern and tooling departments for creating and building shapes, curves and intricate elements to molds and patterns. They are easy to mix, apply, and sand, and have a quick cure time. Great for quick repairs to fiberglass, wood, metal concrete and aluminum.
Gallon .....P/N 01-00368 ..... ---

REINFORCED FILLERS

3M's line of reinforced filler products offers users a unique and flexible array of repair solutions. Each product is reinforced with short fiberglass strands, long fiberglass strands or milled fiberglass. These reinforced fillers are significantly stronger than regular fillers and are waterproof. Great for repairing fiberglass and rust holes in metal.

1 Quart .....P/N 01-01073 ..... ---

3M™ PAINT PREPARATION SYSTEM (PPS™) CUP & COLLAR

3M™ PPS™ Cup and Collar, 16023 Large hard cup that supports and holds the PPS large flexible liner, part number 16024. If filled to the top, this cup will hold 32 fl oz.
P/N 09-01717 ..... ---

3M™ PPS™ MINI CUPS AND COLLARS 16115

Hard cup that supports and holds the PPS mini flexible liner, part number 16114. If filled to the top, this cup will hold 6 fl oz.....P/N 09-01720 ..... ---

3M™ PPS™ MIXING CUP AND COLLAR, 16001

Small, hard cup that supports and holds the PPS small flexible liner, part number 16000.
P/N 09-01715 ..... ---

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3M™ PPS MINI MICRON FILTER KIT

PPS™ is a complete painting system from 3M™ which produces cleaner jobs, saves on solvent usage and gun cleaning time and can improve operator efficiency by as much as 15%. Specifically designed adapters allow painters to use the PPS™ system with virtually any spray gun.
Kit contains 50 disposable lids with 200 micron filters, 50 disposable liners, and 20 sealing plugs. The 200 micron filters are recommended for traditional solvent based paint or primer applications. Graduated measurement to 5 1/2 oz - with generic mix ratio film insert.
Max. capacity of 6 fl oz .....P/N 09-01719 ..... ---

3M™ ACCU SPRAY GUN SYSTEM

All inclusive spraying solution providing the equivalent of multiple brand new spray guns on demand, for a fraction of the cost. The innovative Accuspray™ replaceable atomizing head spray gun eliminates spray gun maintenance kits and the replaceable transparent atomizing heads allow the user to visually confirm the spray gun is clean.
In the box: • Kit contains 1 each Accuspray™ • ONE Spray Gun with color indicator rings • 4 Accuspray™ atomizing heads in sizes 1.4 and 1.8mm • 1 airflow control valve • 5 each liners and lids (1 each w/ 125 micron filter, 4 each w/ 200 micron filter) • 1 each standard size 22oz PPS™ hard cup and retaining ring • 1 mixing/measuring insert and an instruction manual .....P/N 09-04613 ..... ---

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3M™ ACCUSPRAY ATOMIZING HEADS

Approved 3M replacement part. Use with any 3M™ Accuspray™ Replaceable Nozzle Series Spray Gun. The transparent atomizing head offers visual confirmation that the gun is clean. Head can be removed, discarded and replaced for the performance of a brand new spray gun on demand. Works with solvent-based and waterborne materials for 1.4mm applications (eg sealer or paint).
Boosts Productivity: • Lowers application time • High delivery rates • Eliminates costly gun maintenance • Builds mil thickness quickly **Maximizes Benefits of the 3M™ PPS™ System** • Reduces spray gun cleaning time • Uses less solvent for clean up • Decrease hazardous waste disposal cost **Reduces Coating Consumption** • Minimizes overspray • Reduces coating waste
1.4mm.....P/N 09-04640 ..... ---
1.8mm.....P/N 09-04641 ..... ---
2mm.....P/N 09-04638 ..... ---

3M™ SUPER 77 CA MULTIPURPOSE ADHESIVE

3M™ Super 77™ CA Multi-Purpose Spray Adhesive - Low VOC <25% is recommended for bonding paper, foil, felt, cardboard, fabric, and foam to surfaces including plastic, metal and wood. This spray adhesive is photo-safe, clear in color and demonstrates low soak-in. The fast, aggressive tack and extended open time provide a simple process: spray the glue on one or both surfaces, wait 15 seconds to 30 minutes and press surfaces together to form an instant bond. This adhesive is CARB* and SCAQMD compliant, GREENGUARD® certified and helps contribute to LEED® credits. Meets applicable 2017 California Air Resource Board VOC limits for mist and web spray adhesives.
P/N 09-06075 ..... ---

3M™ ROLOC BRISTLE DISK KIT

Convenient introductory packs containing 50, 80, and 120 grade discs. A disc pad is also included to optimize performance and alignment.
2" Disc.....P/N 09-03014 ..... ---
3" Disc.....P/N 09-03015 ..... ---

2-STEP AVIATION WINDOW RESTORATION SYSTEM KIT

Note: Step 3 is not included in this kit and not recommended.
Removes scratches, hazing and other imperfections from acrylic and polycarbonate aircraft windows. Restores clarity and keeps windows looking "factory-new!"
The Aviation Window Restoration System by Clearfix™ Aerospace is an easy to use, two-step process designed specifically for use on acrylic and polycarbonate aircraft windows.
The two steps restore clarity and optical properties by removing scratches, hazing and other imperfections incurred in normal use, degradation due to suncaused oxidation, and scratching from sand and salt crystals.
Just prep, apply and fly!
With this easy-to-use system, your windows can be restored to like-new condition without the hassle of removing them. And it's fast – 60 minutes after application, you're ready to fly! .....P/N 13-13064 ..... ---

3M™ SPREADERS

Dynatron™ Yellow Spreaders are long-lasting tools designed for the body repair professional. A flexible spreading edge makes precise application of body fillers, putties, and glazes a breeze. Cured body filler will easily pop off the spreader, allowing it to be reused. Yellow
3" x 4".....P/N 01-01105 ..... ---

3M™ MIXING BOARDS

Clean, wax-free surface for mixing body filler. Cured body filler can be easily removed, allowing repeat uses or use the disposable paper board that offers a non-porous, wax-free surface and easy disposal. **Specifications**: • Marson ™ Disposable Paper Mixing Board • Size: 100 - 10" x 10"" P/N 01-01108 ..... ---

3M™ ADHESIVE REMOVER

3M™ Industrial Cleaners and Adhesive Removers Low VOC <20% is ideal for helping dissolve and remove dirt, grease, tar, and many non-curing type adhesives. They clean without streaking and have proven to be excellent for surface preparation in adhesive applications. While this multipurpose cleaner is suitable for industrial use, it is also safe enough for everyday projects. 19oz. aerosol
P/N 09-06164 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FOAM CUSHIONING

Foam Cushioning is a dense* open cell foam that can be used forglare shield padding, side panel padding, seat cushioning and for soundproofing. Meets FAR 25.853 burn requirements. Width is 48" and is sold by the linear yard. Available in 1/8" and 1/4" and thickness. *Density (pcf)+/-.5 pcf=5
1/8" Foam cushioning.....P/N 11-02062 ..... **---/yd**

FAUX LEATHER UPHOLSTERY MATERIAL

Superior Panel Technology's offers the latest technology in Faux Leather without the leather cost. It can be used for seats, wall panels and headliners. It meets FAR 23.853(a) flammability requirements. It provides superior wear resistance (100,000 cycles), stretchable (which is great for headliners), abrasion resistance and excellent tailorability.
Width is 54", weight is 28 oz/linear yard and it is available in seven colors. See additional image for color chart or download PDF below.
Pricing is per linear yard. Request the sample by color number.
Cranberry 710 .....P/N 11-11144 ..... **FREE**

SYQUEST 50 OZ MULTI PRO 2 SPRAYER BOTTLE

Note: This Sprayer does not have foaming capabilities
Looking for an all-in-one spray multi sprayer that can handle huge surface areas? Look no further than the Release® Multi Pro 2 Spray Bottle 50oz. This powerful sprayer is made with plastic components that are resistant to almost any solvent, making it a great fit for Release® Ultra Concentrate and so you can easily target and release soils from surfaces across a wide range of markets. Whether you're dealing with fingerprints on glass surfaces, smudges on stainless steel, or dirt on porous surfaces like stone or concrete, this Multi Pro 2 Sprayer chemical dispenser is the best way to clean wide surface areas with ease.....P/N 09-06216 ..... **---**

SYQUEST 50OZ FOAM SPRAYER PRO 2

Looking for an all-in-one foamer that can handle huge surface areas? Look no further than the Release® Foam Pro 2. This powerful foamer is made with plastic components that are resistant to almost any solvent, making it a great fit for Release® Ultra Concentrate and so you can easily target and release soils from surfaces across a wide range of markets. Whether you're dealing with fingerprints on glass surfaces, smudges on stainless steel, or dirt on porous surfaces like stone or concrete, this Foam Pro 2 chemical dispenser is the best way to clean wide surface areas with ease .....P/N 09-06214 ..... **---**

KLEAR-TO-LAND LIQUID CLEANER

"KLEAR-TO-LAND" is formulated primarily for aircraft windscreens – however, it can be and is used extensively for aircraft interior cleaning, including upholstery cleaning, fabric, plastic and leather.

Size	Part No.	Price
9 oz. Aerosol	09-04445	---
1 Gallon	09-04446	---
5 Gallon	09-04447	---
55 Gallon	09-04449	---

AERO PREP 500

"Aero-Prep #500" is unexcelled for safety and quickly removing exhaust stains as well as emulsifying and removing heavy grease and soil deposits before shampooing. It is a synergistic product that has many different applications such as removing and emulsifying grease from engines as well as removing grease from concrete floors. Biodegradable, nonflammable and nontoxic. Rinse free of film and residues.

Size	Part No.	Price
1 Gallon	09-04454	---
5 Gallon	09-04455	---
35 Gallon	09-04456	---
55 Gallon	09-04457	---

AERO WASH WAX ALL HYBRID MULTI-POLYMER CERAMIC WAX

Wax ALL Hybrid Multi-Polymer Ceramic Wax offers advanced SiO2 Technology for Long-Lasting Protection, Superior Shine, Gloss, Depth of Color and Extreme Water Beading. Its advanced chemistry offers maximum protection of all exterior surfaces such as paint, glass, chrome, plastic & vinyl. Wax ALL Hybrid Multi-Polymer Ceramic Wax works amazingly well on all vehicles such as RV's, Aircraft, and Motorcycles. Your vehicle will stay well-protectant in any environment.
16 Ounces .....P/N 09-05991 ..... **---**

AERO WASH AND WAX

Davies " Aero Wash N Wax" is a chemical breakthrough in liquid aircraft wash technology. It makes it possible to thoroughly wash and wax your plane in one operation! This amazing chemical discovery simply hoses to a bright luster, no chamoising is required, just apply with a sponge or soft brush, and hose it off. "Aero Wash N Wax" is recommended for all types of finishes.

Size	Part No.	Price
1 Gallon	09-04458	---
5 Gallon	09-04459	---
55 Gallon	09-04461	---

TOP GUN HANGAR CLEANER

Davies "Top Gun" is the 'best of the best' when it comes to cleaning Aircraft hangar floors. A special detergent is compounded into this highly built and buffered chemical system to remove tenacious soils associated with aircraft storage and maintenance. "Top Gun" is highly concentrated, and very cost effective for use. Pleasant, tropical aroma.

Size	Part No.	Price
1 Gallon	09-04462	---
5 Gallon	09-04463	---
35 Gallon	09-04464	---
55 Gallon	09-04465	---

SAFE MELT LIQUID

Features fast ice melting action, even at very low temperatures (-20° F). This product is a non-corrosive, safe on the environment, and complies with ASME 1435 and FAA specs. SAFE-MELT - liquid contains no glycol, therefore is less slippery than glycol based runway deicers.

Size	Part No.	Price
1 Gallon	09-04466	---
5 Gallon	09-04467	---
35 Gallon	09-04468	---
55 Gallon	09-04469	---

SAFE-MELT GRANULAR

Features fast ice-melting action, even at very low temperatures (0° F). This product is a non-corrosive, safe on the environment, and complies with FAA specs. SAFE-MELT - granular contains no glycol, and is less slippery than glycol based runway deicers.

Size	Part No.	Price
25 lbs.	09-04470	---
275 lbs	09-04471	---

FOAMIT SPRAYERS – PAINT ACCESSORIES

FOAMIT 1.5 LITER PUMP UP SPRAY UNIT

• Efficient and ergonomic alternative to trigger sprayers • Sprays at any angle, even upside down • Compact unit with manual pump • Maximum portability for small jobs and spot cleaning • Comfortable grip handle with trigger for quick on/off control • Adjustable cone nozzle that ranges from spray to stream • Pressure relief valve for safety • Viton pump seals for chemical compatibility • Polypropylene tank and pump head • View stripe for easy visibility of product levels • Stability base with gripping notches.

P/N 09-06197 ..... ---

FOAMIT 5 LITER PUMP SPRAY UNIT

Compact unit with manual pump • Maximum portability for small jobs and spot cleaning • Comfortable grip handle with trigger for quick on/off control • Ability to switch between short and long wand assembly • Pressure relief valve for safety • Viton seals for chemical compatibility • Natural color tank for easy visibility of product levels • Product level fill markings in gallons and liters.

P/N 09-06199 ..... ---

FOAMIT 1.5 LITER PUMP UP FOAM UNIT

• Compact unit with manual pump • Maximum portability for small jobs and spot cleaning • Comfortable grip handle with trigger for quick on/off control • Nozzle with 110 degree fan tip • Pressure relief valve for safety • Viton pump seals for chemical compatibility • Polypropylene tank and pump head • View stripe for easy visibility of product levels • Stability base with gripping notches.....P/N 09-06198 ..... ---

FOAMIT 5 LITER PUMP UP FOAM UNIT WITH PSG12 TRIGGER GUN

• Built with a heavy duty trigger gun for added durability • Compact unit with manual pump • Maximum portability for small jobs and spot cleaning • Pressure relief valve for safety • Viton seals for chemical compatibility • Natural color tank for easy visibility of product levels • Product level fill markings in gallons and liters • Extra wide stability base.

P/N 09-06200 ..... ---

FOAMIT 10 LITER - 2.6 GALLON DUAL-POWER FOAM UNIT

• Dual operation with manual pump and connection for air supply for flexibility in applications • Connect to an air source to pressurize the unit, then disconnect and move the unit to the area to be cleaned • Produces thick, high quality foam • Lightweight, durable, and chemical-resistant discharge hose • Pressure regulator and pressure relief valve for safety • Viton seals for chemical compatibility • Natural color tank for easy visibility of product levels .....P/N 09-06201 ..... ---

FOAMIT CHEMICAL TRANSFER UNIT

• Transfer each product at up to 3.5 gal/min (13.2 l/min) • Tool-free pump changes with our quick-change pump bracket • Chemically-resistant PVC hose • Weighted suction line with filter and check valve • Air regulator with filter • Strain relief on the discharge hose • Poly fill gun with Hastelloy components for compatibility • Air-operated diaphragm pump with quick-release hose barbs • Choose Santoprene, Viton, and/or Kalrez pump seals.

P/N 09-06202 ..... ---

FOAMIT 10 GALLON PORTABLE FOAM UNIT

FoamIt 10 Gallon Portable Foam Unit Natural Santo Quick Connect Wands With Zero Tip and Fan Tip.

Features: • Universal hinge back plate • Quick-change pump • Natural color tank • Hinged lid • Integrated hose wraps • Front-facing drain • In-line strainer • Two wand assemblies

P/N 09-06205 ..... ---

FOAMIT 20 GALLON PORTABLE FOAM UNIT

FoamIt 20 Gallon Portable Foam Unit Natural Santo Quick Connect Wands With Zero Tip and Fan Tip

Features: • Universal hinge back plate • Quick-change pump • Natural color tank • Hinged lid • Integrated hose wraps • Front-facing drain • In-line strainer • Two wand assemblies.

P/N 09-06206 ..... ---

FOAMIT 30 GALLON PORTABLE FOAM UNIT

FoamIt 30 Gallon Portable Foam Unit-Natural-Santo

Features: • Power type: Compressed Air • Chemical pick-up: Draws from pre-mixed solution • Number of products unit can draw from (and whether it draws simultaneously or one at a time): One Product • Suction Line length/diameter: 3/8 in (9.5 mm) inside diameter • Capacity: 30 Gallons (113.56 liters) • Discharge hose diameter/length: 30 ft. (9 m) hose, with 3/4 in. (19 mm) inside diameter • Discharge wand/tip type: 7 in. (17.8 cm) stainless steel wand with zero tip and ball valve • Output Distance: 25-30 ft. (7-9 m) • Output Volume: 20-45 gal/min (75-170 l/min) of foam • Flow Rate*: 2 gal/min • Pump seals: Santoprene, Viton, or Kalrez • Wheel Type: Two 10 inch non-marking wheels, two 5 inch casters with lock.

P/N 09-06207 ..... ---

1 2 3 5

PIPER INSPECTION FRAMES

1-Front & Rear Strut Opening Reinforcements.
P/N 09-00334 ..... **---/ea.**
2-Naugahyde Cable Seal Kit - 2 slotted fuselage and 2 aileron punched cable seals .....P/N 09-00335 ..... **---/ea.**
3-Front Trim Yoke Inspection Frame .....P/N 09-00336 ..... **---/ea.**
5-Tear Drop Reinforcement.....P/N 09-00338 ..... **---/ea.**

POLYESTER FLANNEL

45" width. For leading edge.....P/N 09-01750 ..... **---/yd**

POURING PAL

Just Snap It On! One size fits pint, quart, gallon and 4 liter paint cans. Snaps onto inner rim of paint can to keep paint out of the gutter and ensure a goo seal after use.

P/N 09-22210 ..... ---

PAINT STIRRING PADDLE

Mix paint colors, epoxy, resin, and more with this pack of versatile paint stirrers. They have a sturdy quality that makes them resistant to breaking even when stirring thick liquids like epoxy or resin.

12' x 5/32" x 1 1/16" .....P/N 09-22205 ..... ---

PAINT STRAINERS

Cone type strainer. Medium mesh (48x36), for filtering all pigmented finishes .....P/N 09-22200 ..... **---ea.**

FLIGHT GLOSS 4 INCH ROLLER TRAY

Small tray fits the 4-inch roller. Bucket has a built-in roller board for quantity application.

P/N 09-00146 ..... ---

09-01496

09-01497

3M™ PARTICULATE RESPIRATORS

Helps provide worker protection against certain non-oil based particles. Comfortable, easy to use, and promotes greater worker acceptance increasing wear time. Features 3M's patented filter media, nose foam, and adjustable noseclip that helps provide a secure seal and helps reduce eyewear fogging. Workplace applications: wood-working, grinding, sanding, sweeping, bagging, other dusty operations.

Description	Part No.	Price
8210 Standard dust mask	09-01496	---
Vented dusk mask	09-01497	---

SNAP ON LID WITH SPOUT FOR 1 GALLON CONTAINERS

The snap-on 2-piece can lid with air vent makes it easy to pour paint from 1 gallon cans. Contains a wiping edge for brushes

P/N 09-06240 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PREMIUM SELF-ETCHING PRIMER

Etches and primes in one easy step. Can be used under all today's automotive finishes. Perfect for spot repairs. Creates superior adhesion on most plastics, fiberglass, bare steel, aluminum and stainless steel. **Color**: Green

12oz. Spray Can .....P/N 09-02099 ..... ---

KRYLON AEROSOL HIGH HEAT PAINT

Krylon High Heat & Radiator Paint is ideal for mufflers, radiators, and engine blocks. Withstands temperatures to 600°F. Guards against rust. Available in three colors.

12 oz. aerosol cans.

Aluminum .....P/N 15-05467 ..... ---
White .....P/N 15-08254 ..... ---
Black .....P/N 15-08255 ..... ---

VHT WRINKLE PLUS COAT

VHT Wrinkle Plus™ combines strong colors with a deep rich texture for a custom look. It is temperature resistant to 350°F (177°C) and is ideal for adding a touch of personal styling to almost any metal surface. VHT Wrinkle Plus™ resists color fading, grease, degreasers, and severe weather conditions. This tough, durable finish is extremely resistant to rust, corrosion, chipping and cracking. **Applications**: Valve Covers, Metal Dashboards, Glove Boxes, Starters, Door Panels, Shifters, Alternators, Firewalls Black SP201.

P/N 09-05684 ..... ---

VHT SP124 GLOSS BLACK ENGINE ENAMEL

VHT SP124 Gloss Black High Temp (500 degrees Fahrenheit) Engine Enamel has excellent durability and superior heat and chemical resistance. It is specially formulated to withstand corrosion, rust, salt spray, chemicals and additives of today's gasoline blends and degreasers. VHT's 550 degree engine enamel is a unique blend of urethane and ceramic resins, which produce a long-lasting finish for engines, engine accessories or wherever a tough durable heat and chemical resistant finish is needed .....P/N 09-06111 ..... ---

SUPERFLITE AIRCRAFT ENGINE ENAMELS

Superflite engine enamels are fast-drying enamels developed specifically for air-cooled aircraft engines used in light duty aviation industries. The Superflite enamels feature superior adhesion, heat resistance, and a gloss finish. Cure Schedule: Dry to touch: 15 minutes, Dry to handle: 60 minutes Dry through: 24 hours To recoat: Before 60 minutes , or after 72 hours Benefits: Topcoat - Air dry or low temperature cure, For use on bare metal or painted surfaces Specifications: Shelf Life: 12 months at recommended storage temperatures, Heat Resistance: Up to 400°F.

Lycoming Grey Paint Quart .....P/N 09-02558 ..... ---
Lycoming Grey Paint Spray.....P/N 09-02556 ..... ---
TCM Gold Paint Quart.....P/N 09-02557 ..... ---
TCM Gold Paint Spray.....P/N 09-02550 ..... ---
Attention: The current Continental engine color is more Silver than Gold.
Gloss Paint Black Quart .....P/N 09-02559 ..... ---

CAN-GUN

Can-Gun is an aerosol spray can trigger handle which makes painting, cleaning, and lubricating jobs safer and easier. The user-friendly form-fit handle and trigger eliminates finger fatigue and provides the user with accurate control over the amount, speed, and direction of spray. The built-in safety shield insures no more messy hands or fingers. Sprays virtually all spray paints, lacquers, polishes, cleaners, lubricants, sealers, and adhesives and Can-Gun fits most spray cans.

P/N 09-14760 ..... **--- ea.**

EXTEND-A-LUBE SUPER STRAWS (PACKAGE OF 3)

Super Straws reduce or eliminate messes from overspray. The high grade plastic is extremely chemical resistant and can be used with various lubricants, harsh degreasers, and compressed gases. Super Straws increase the range and utility of aerosol products by using a 16" high grade plastic tube to access those hard to reach places. Easily cut to any length using a knife or scissors, Extend-A-Lube Super Straws are proudly manufactured, packaged, and sold in the U.S.A.!.....P/N 09-02398 .....

VHT SP652 SATIN BLACK EPOXY ALL WEATHER PAINT

VHT SP652 Satin Black Epoxy All Weather Paint is a one step epoxy coating which does not require use of primer. It has been formulated to give the appearance of a baked-on finish. It provides a porcelain-like finish that is chemical, corrosion, rust and salt resistant .....P/N 09-06108 ..... ---

VHT SP651 GLOSS WHITE EPOXY ALL WEATHER PAINT

VHT SP651 Gloss White Epoxy All Weather Paint is a one step epoxy coating which does not require use of primer. It has been formulated to give the appearance of a baked-on finish. It provides a porcelain-like finish that is chemical, corrosion, rust and salt resistant .....P/N 09-06110 ..... ---

DUPLIC-COLOR DA1670 GLOSS WHITE ACRYLIC ENAMEL

Dupli-Color® Premium Enamel offers exceptional quality in a general purpose enamel paint. A high-solids acrylic enamel formulation delivers the ultimate in protection, gloss and color retention while delivering maximum coverage on metal, wood, and fiberglass surfaces. .....P/N 09-06115 ..... ---

DUPLI-COLOR DA1605 GENERAL PURPOSE BLACK FLAT

Dupli-Color® Premium Enamel offers exceptional quality in a general purpose enamel paint. A high-solids acrylic enamel formulation delivers the ultimate in protection, gloss and color retention while delivering maximum coverage on metal, wood, and fiberglass surfaces. .....P/N 09-06114 ..... ---

DUPLICOLOR DAL1607 BLACK FLAT LACQUER

Dupli-Color® Premium Lacquer is a fast-drying, high-solids formula that provides quick coverage, excellent weatherability and superior adhesion. It delivers a rich glossy finish every time making it ideal for automotive trim and detail projects, as well as other general purpose applications.

P/N 09-06112 ..... ---

DUPLI-COLOR DA1600 BLACK GLOSS

Dupli-Color® Premium Enamel offers exceptional quality in a general purpose enamel paint. A high-solids acrylic enamel formulation delivers the ultimate in protection, gloss and color retention while delivering maximum coverage on metal, wood, and fiberglass surfaces .....P/N 09-06113 ..... ---

ZINC PHOSPHATE PRIMERS

Maximum adhesion to bare aluminum and steel Tempo's Zinc Phosphate Primers are recommended for priming bare metal. These primers provide maximum bonding to bare aluminum and steel. Tempo's Primers have been the workhorse in the aviation industry for many years.

The A-701 Yellow and A-702 Green Zinc Phosphate Primers meet the performance standards outlined in Federal Specification T-P-1757A. They also exceed the 800 hours of salt spray fog test (ASTM #B117). A-701 will replace A-901 Yellow and A-702 will replace A-902 Green.

Yellow .....P/N 09-02128 ..... ---
Green.....P/N 09-02127 ..... ---

AKZO FAST DRYING INTERIOR EPOXY PRIMER

AKZO interior epoxy primer #463.12-8 is a chemically cured 2-component epoxy primer designed to provide maximum protection from various chemicals, hydraulic fluids, aviation fuels, hydraulic fluids, and corrosive causing media. Drying time to touch is 15 minutes and to recoat is 1-24 hrs. Shelf life: 2yrs, Color: Green. Used extensively in military and aerospace applications and popular with aircraft builders. Uses 1 gallon of primer and 1 gallon of catalyst.

2 gal. kit .....P/N 09-24735 ..... ---
TR-19 Thinner .....P/N 09-00439 ..... ---

CS

ALUMIPREP USED FIRST MAKES THE PAINT FINISH LAST!

Use on unpainted aluminum aircraft, truck trailers, house trailers, boats, garage doors, outdoor furniture, etc.

BONDERITE C-IC 33 AERO

Use to clean, brighten and transform badly corroded aluminum to its natural appearance. Covers 400 sq.ft. per quart.

Hazardous

Quart ..... P/N 09-01621 ..... ---
Gallon ..... P/N 09-01620 ..... ---

BONDERITE M-CR 1001 AERO

An invisible coat to provide in-depth corrosion proofing to the brightened aluminum surface and act as a firm barrier against the elements and continued corrosion.
Covers 250 sq.ft. per quart.

Quart ..... P/N 09-01628 ..... ---
Gallon ..... P/N 09-01629 ..... ---

BONDERITE C-IC 79 AERO

A non-flammable multi-purpose phosphoric acid based cleaner and prepaint conditioner for most metals. Leaves the surface chemically clean and corrosion free. Can be used to deep clean and etch a metal surface prior to paint or to prepare a surface for a subsequent chemical coating like that produced by GALVAPREP® SG on zinc and steel or ALODINE® 1201 on aluminum surfaces. **Hazardous**.

Quart ..... P/N 09-01625 ..... ---

BONDERITE M-CR 1201 AERO

After precleaning with Alumiprep 33 or Metal Prep 79, rinse with water. Apply Alodine without dilution by brushing or swabbing with sponge. Rinse with water and surface is ready for paint. This is a visible coating which leaves the surface with a golden coloration.The alodized surface provides protection against weather and firmly bonds paint. One quart treats about 100 sq. ft. **Hazardous**.

Quart ..... P/N 09-01619 ..... ---
Gallon ..... P/N 09-01618 ..... ---

BONDERITE C-MC 5884 AERO MAINTENANCE CLEANER

Maintenance cleaner which is effective in the removal of oil, salt and solid deposits from compressor blades, guide vanes and rotors of jet engines. BONDERITE® C-MC 5884 AERO (known as TURCO 5884) is a concentrated liquid maintenance cleaner which is effective in the removal of oil, salt and solid deposits from compressor blades, guide vanes and rotors of in-service jet engines. Periodic cleaning of these components is necessary to avoid power loss, abnormal temperature increases and increased fuel consumption. • Listed in General Electric SPM REF #C04-140 • Listed in Pratt & Whitney SPMC-87 • Flash point +149 °F (+65 °C) minimum (Tag closed cup) • Readily miscible with water • Ash-free • Typically very low in phenol, chloride and sulfur..... P/N 09-06241 ..... ---

BONDERITE® S-ST 5351 AERO PAINT STRIPPER

A yellow, viscous paint remover for stripping epoxy, polyurethane and similar coatings from a wide array of metal surfaces. If you're looking for effective stripping of epoxies, epoxy primers, polyurethanes and similar catalyzed paints from metal surfaces, choose BONDERITE® S-ST 5351 AERO. This methylene chloride-based, yellow liquid is designed specifically to remove epoxy, polyurethane and similar coatings from metal surfaces such as aluminum, magnesium, stainless steel, titanium, ferrous and non-ferrous. BONDERITE S-ST 5351 AERO works by clinging to vertical and overhead surfaces and creating a film that helps retard evaporation and extend the working life of the stripper. It's approved for use on parts that must meet MIL-R-81294 standards.**Features**: • Offers effective paint stripping • Compatible with aluminum, magnesium, stainless steel, and titanium • Meets the requirements of MIL-R-81294

5 Gallon ..... P/N 09-06243 ..... ---

ALODINE TOUCH-N-PREP 1132

Touch-N-Prep Alodine 1132 no-rinse conversion coating effectively phosphates most metals including aluminum, ferrous and galvanized substrates. Doesn't require rinsing, and can be air dried or force dried with hot air or an infra-red lamp. High density acrylic tip of the Touch-N-Prep applicator can be modified with a single edge razor blade to form any shape. The application method controls the amount of coating applied to the surface. Covers 20 sq.ft. ..... P/N 09-01630 ..... ---

RANDOLPH W-2248 EP-420W EPIBOND EPOXY PRIMER (WHITE)

Epibond Epoxy Primer W2248 is a 3-component primer system for metal surfaces. Off-white in color. An excellent base coat under white or light colored combinations. **Kit Contents**: • Primer Base • Catalyst • Reducer.

Product	Quart Part No.	Quart Price	Gallon Part No.	Gallon Price
W2248/EP420 Primer White kit	09-00573	---	09-00574	---
Epoxy White base	09-00564	---	09-00565	---
Rand E-500 Epoxy Reducer	09-00566	---	09-00567	---
Product	**Pint Part No.**	**Pint Price**	**Quart Part No.**	**Quart Price**
Rand EP430 Catalyst	09-00570	---	09-00571	---

RANDOLPH B-6433 RAND-O-PLATE EPOXY PRIMER (DARK GREEN)

This green primer is solvent resistant, anime cured, fast drying, and corrosion inhibiting. Can be applied & cured to temperatures down to 35 F. Mixing ratio is 2 parts base primer 1 part EP-430 Catalyst. Kit Contents: • Primer Base • Catalyst • Reducer.

Product	Quart Part No.	Quart Price	Gallon Part No.	Gallon Price
Rand B6433 Primer Green kit	09-00575	---	09-00576	---
Epoxy Green base	09-00568	---	09-00569	---
Rand E-500 Epoxy Reducer	09-00566	---	09-00567	---
Product	**Pint Part No.**	**Pint Price**	**Quart Part No.**	**Quart Price**
Rand EP430 Catalyst	09-00570	---	09-00571	---

RANDOLPH EPOXY VARNISH EV-400/EV-410

An excellent clear gloss epoxy varnish for interior and exterior use. It provides superior weather durability and excellent chemical and solvent resistance. Can be used over a one component varnish primer if desired. Mixing ratio is 2 parts base varnish: 1 part EV-410 Catalyst. Order in kits.

Quart Kit (yields 2.5 qts) Incl. EV-410 Catalyst & E-500 Thinner ..... P/N 09-00670 ..... ---
Gallon Kit (yields 2.5gal) - Incl. EV-410 Catalyst & E-500 **Thinner** ..... P/N 09-00671 ..... ---
Base: Quart ..... P/N 09-00666 ..... ---
Gallon ..... P/N 09-00667 ..... ---
Catalyst: Pint ..... P/N 09-00668 ..... ---
Quart ..... P/N 09-00669 ..... ---
E-500 thinner (Reduce 50%)
Quart ..... P/N 09-00566 ..... ---
Gallon ..... P/N 09-00567 ..... ---

RANDOLPH EPOXY ACCELERATOR EX-501

A chemical curing accelerator for use in W-2248 EP-420W Epibond Epoxy Primer, B-6433 EP-420G Rand-O-Plate Epoxy Primer, and EV-400 Epoxy Varnish according to direction on base component label. Reduces polymerization time, not solvent evaporation. 1/2 Pint..... P/N 09-04650 .....

RANDOLPH C-2210 PAINT SURFACE CLEANER

A mild solvent blend formulated to remove oil, silicone, wax, and other contaminants from all metal surfaces before priming. Also removed tape gum from painted surfaces and acrylic windshield materials.

Quart ..... P/N 09-40810 ..... ---
Gallon ..... P/N 09-40820 ..... ---

BONDERITE M-CR 871 AERO

BONDERITE® M-CR 871 (known as ALODINE 871 TOUCH-N-PREP) Coating is a non-hexavalent chromium dry-inplace conversion coating designed for use on aluminum and its alloys. The applicator used to deliver this product provides an easy and safe method of repairing bare areas of aluminum surfaces..... P/N 09-05780 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

STEWART SYSTEMS EKOBOND

Stewart Systems EkoBond EkoBond is a revolutionary water based cement for the application of fabric. EkoBond has extreme bond strength for fabric to fabric and fabric to non-fabric surfaces in both peel and shear tests. EkoBond is very user friendly since it has very little odor and can be used in a closed shop with no health or fire hazards. EkoBond dries quickly and will not attack primers or enamel paints. EkoBond is non-flammable and environmentally friendly.

Quart.....P/N 09-41195 ..... ---
Gallon .....P/N 09-41200 ..... ---

EKOBOND LINEN - For the look of old linen with the convenience of Dacron. EkoBond linen will make the fabric look just like old cotton, while giving you not only the antique look, but also the strength and durability of EkoBond.Quart.....P/N 09-03064 ..... ---
Gallon .....P/N 09-03065 ..... ---

STEWART SYSTEMS EKOFILL

Part of the Stewart Aircraft Covering System, Stewart Systems EkoFill seals the fabric, provides UV protection, fills the weave and acts as a primer for application of EkoPoly. On fabric airplanes, all covering, rib stitching and tapes are complete and the fabric has been cleaned with EkoClean before applying EkoFill. EkoFill is used on Dacron/polyester fabric, glass cloth, gel coat and composite materials. It has excellent adhesion, superior high build properties and is an outstanding UV barrier on fabric and composite surfaces. EkoFill dry sands very easily with open coat sand paper. EkoFill is non-flammable, has little odor and is water cleanup. **Attention:** Cold weather warning for shipping: It is possible for product to freeze based on weather conditions.

Grey Quart.....P/N 09-06700 ..... ---
Grey Gallon .....P/N 09-06800 ..... ---

STEWART SYSTEMS EKOCRYLIC TOP COAT

EkoCrylic is a tough, durable, and easy to apply top coat paint designed for metal, wood, and composite surfaces. EkoCrylic is applied with a modern style spray gun with a 1.2 to 1.4 mm nozzle.

VISIT OUR WEBSITE FOR COLORS, PART NUMBERS, AND PRICES.

STEWART SYSTEMS EKOPOLY PREMIUM TOP COAT

An especially versatile high performance coating for metal, composite and fabric surfaces. EPP provides a wet look glossy, flexible and durable top coat that retains its flexibility and gloss under the most adverse conditions. Resistant to fuels, oils and solvents, EPP will keep your airplane looking like new for years. Easy to apply following the written and video directions. A HVLP spray gun is recommended for EPP application. EPP is non-hazardous, low odor and EPA compliant. EPP is non-flammable in the bottle and on your airplane. EPP May be used on all substrates (fabric, wood, fiberglass and metals) when properly prepared.

VISIT OUR WEBSITE FOR COLORS, PART NUMBERS, AND PRICES.

STEWART SYSTEMS ECKOCRYLIC FLATTENER

Stewart Systems Flattener and catalyst for EkoPoly and EkoCrylic top coats. Flattener is mixed with the paint at up to a 50% ratio. For 1 gallon of topcoat paint, you'll need 2 quarts of Flattener; for 1 quart of topcoat paint, you'll need 1 pint of Flattener.

Quart.....P/N 09-05651 ..... ---
Gallon .....P/N 09-05652 ..... ---

STEWART SYSTEMS EKOSEAL E1800/E1850

E1800 - EkoSeal is a water dispersible top coat, offering outstanding coverage, durability and ease of application. EkoSeal is a low VOC, EPA compliant coating. Use on wood spars and plywood before installation of fabric. Wood sealer is resistant to UV yellowing in exterior applications. Size: 1 quart.

Quart Clear.....P/N 09-03082 ..... ---
Quart Satin .....P/N 09-03083 ..... ---

E-1850 - EkoSeal Sanding Wood Sealer E1850 is a wood sealer with a sanding filler added to fill light voids and grain in wood products. After sanding, apply EkoSeal Wood Sealer or any other top coat. Size: 1 quart.

Quart Clear.....P/N 09-03084 ..... ---

STEWART SYSTEMS EKOSTRIP

Stewart Systems EkoStrip is an environmentally safe paint stripper that can be sprayed, brushed or rolled on your painted surface. EkoStrip is not solvent borne and does not dry out and stop working overnight. In most cases the stripping action will take place in 2-4 hours. EkoStrip has no harsh odors, is not caustic and is biodegradable.

1 Gallon .....P/N 09-03080 ..... ---
5 Gallon .....P/N 09-03081 ..... ---

STEWART SYSTEMS EKOPOXY

Stewart Systems EkoPoxy Primer/Sealer is a high quality water based Epoxy primer for use on many substrates. Stewart Systems EkoPoxy can be used on interior and exterior surfaces where there is more chance of corrosion from the environment. Excellent adhesion to bare metals, resists flash rusting which can occur with latex based primers. Superior chemical resistance, is fast drying and mar resistant. Low in VOCs and compatible with a wide range of top coats including EkoPoly Top coat. Nonhazardous, nonflammable and water cleanup, Stewart Systems EkoPoxy is your best choice for Primer.

Color	Size	Part No.	Price	Size	Part No.	Price
White	Quart	09-03066	---	Gallon	09-03067	---
Smoke Grey	Quart	09-03068	---	Gallon	09-03069	---
Charcoal Grey	Quart	09-03070	---	Gallon	09-03071	---
Green	Quart	09-03072	---	Gallon	09-03073	---

STEWART SYSTEMS EKOPRIME PRIMER/SEALER

Stewart Systems Primer Sealer is a high quality, water-based single component primer, not requiring any catalyzing agent. Performance obtained is equal or superior to that of two-component, catalyzed epoxy systems. Primer Sealer offers good coverage, excellent durability, and ease of application.

Color	Size	Part No.	Price	Size	Part No.	Price
White	Quart	09-00464	---	Gallon	09-00481	---
Smoke Grey	Quart	09-03074	---	Gallon	09-03075	---
Charcoal Grey	Quart	09-03076	---	Gallon	09-03077	---
Green	Quart	09-03078	---	Gallon	09-03079	---

STEWART SYSTEMS ALUMINUM ETCH / CLEANER

EkoEtch Aluminum Etch is a concentrated combination acid based detergent and degreaser. Removes scale, corrosion, light oil, processing fluids and brightens aluminum. A non-hazardous, water reducible and non-flammable. Use it to prepare both old and new aluminum surfaces before applying Stewart Systems Primer/ Sealers. .....P/N 09-00473 ..... ---

STEWART SYSTEMS EKOCLEAN

EkoClean Heavy Duty Cleaner/Degreaser concentrate is used with the Stewart Covering System to clean fabric before application of EkoFill. For cleaning fabric, EkoClean is diluted 15-1 with water, and lightly applied with a spray bottle, and rinsed with clear water. EkoClean is a non-butyl, water soluble, concentrated degreaser and general purpose cleaner. In stronger concentrations EkoClean attacks grime, exhaust stains and grease spots from painted surfaces. EkoClean does not contain phosphates and is USDA approved.

Quart .....P/N 09-03089 ..... ---
Gallon.....P/N 09-03090 ..... ---

STEWART SYSTEMS PROCEDURES 21 MANUAL

A complete written manual for the Stewart Systems Covering Process. It includes product application, painting instructions, continued airworthiness and more. Also contains many helpful hints for each step of the process.

P/N 09-03091 ..... ---

Heat Packs for Cold Weather Shipment!

With Heat Pack option adds a shipping heat pack to keep the material from freezing while in transit. It is recommended for winter months / destinations in cold climates where the temperature may drop below freezing while in transit. If the material freezes, it is not recommended for use.

For Heat Pack option add -HP to Part Numbers.

NUVITE PRODUCTS

NUVITE NUIMAGE FOR POLISHED METAL CLEANER & DEBUGGER

Nuvite NuImage is the answer to debugging and oil removal problems on your show-quality brightwork! NuImage will clean and debug your outstanding polish job without the fogging of normal cleaners, and will save you time and effort while it helps you maintain that famous "Nuvite Look" you get with Nuvite NuShine II metal polishes!

NuImage works great for cleaning polished skins on aircraft bellies and cowlings, removing oils and fluids without the rainbow effect that are usually left on the surface from oil residue.

1 Pint .....P/N 09-05465 ..... ---
1 Quart.....P/N 09-02085 ..... ---
1 Gallon .....P/N 09-05463 ..... ---
5 Gallons .....P/N 09-05467 ..... ---

NUVITE EXTRACTOR CLEANER

Nuvite NuImage is the answer to debugging Nuvite Extractor is a professional-grade suction-type soil extraction machine cleaning fluid. Its deep cleaning action makes short work of cleaning both carpeting and heavy upholstery fabrics, and, it keeps machine fouling down due to its low foaming characteristic.

The formulation includes color brighteners and a mild, fresh aroma without heavy perfumes. Additionally, Nuvite Extractor helps keep your extraction equipment clean and makes cleanup easy.

1 Quart .....P/N 09-02094 ..... ---
1 Gallon.....P/N 09-05496 ..... ---

NUVITE IMPACT HD-III HEAVY DUTY GEL DEGREASER

- Gel-Based for tough overhead or vertical areas
- Use full strength for heavy caked-on sludge, gummy tar deposits
- Dilute for light degreasing
- Safe for paint, rubber & acrylics
- Biodegradable, not environmentally restricted

1 Quart .....P/N 09-05480 ..... ---
1 Gallon.....P/N 09-05479 ..... ---
5 Gallons.....P/N 09-05481 ..... ---

NUVITE NUGEAR SC HEAVY DUTY ENGINE CLEANER

- Formulated for use in hot immersion tanks & spray .. cabinets
- Safe to users and all aircraft components
- Environmentally friendly & completely biodegradeable

1 Quart .....P/N 09-05499 ..... ---
1 Gallon.....P/N 09-05498 ..... ---
5 Gallons.....P/N 09-05501 ..... ---

NUVITE NULUCENT SURFACE CLEANER

Multi-Purpose Translucent Surface Cleaner Benefits Beyond Clean...

NULUCENT is specially formulated for final clean-up of plastic aircraft windows. Lubricating oil, grease, soil, bird droppings and insect carcasses are wiped away with minimal pressure.

Benefits Beyond Clean...

Regular maintenance with NULUCENT delivers additional benefits. Preserving & protecting the surface by reducing fine scratch marks, preventing further degradation and redeposition of soil deposits.

Pint .....P/N 09-06376 ..... ---

NUSHINE FLANNEL POLISHING CLOTH

This is the 13 ounce 100% cotton-face virgin cotton flannel ("sweatshirt material") used with orbital buffers with Nuvite NuShine II Grade S to get that final "Nuvite Look" of extreme depth and image in your polished metal. See Detailed Metal Polishing Procedures for recommended use. Package of 10 20" X 30" (approx.) sheets gives many "polishing positions" on each sheet for economy.....P/N 09-05346 ..... ---

NUVITE COTTON MOPHEAD

Nine inch Nuvite Cotton Mophead.

P/N 09-03039 ..... ---

NUVITE CITRICUT XTRA CLEANER & SEALANT

Industrial strength, concentrated citrus-based cleaner and sealant. Loosens and emulsifies dirt/oils and enhances paint gloss in single step. Can be used as a dry wash, hand wax, sealant and cleaner for Aircraft, Automotive, RV, Marine and Rail.

1 Quart .....P/N 09-05477 ..... ---
1 Gallon .....P/N 09-05475 ..... ---
5 Gallons .....P/N 09-05478 ..... ---

NUVITE CITRI-CUT GEL CLEANER

Industrial Strength, Citrus-Based Surface Cling Cleaner. Exceptional vertical or over head surface cleaner, degreaser and general wet wash.

1 Quart .....P/N 09-05473 ..... ---
1 Gallon .....P/N 09-05472 ..... ---
5 Gallons .....P/N 09-05474 ..... ---

NUVITE PCS PROFESSIONAL CARPET CLEANER

- Exceptional prespotting & cleaning
- For carpets, upholstery & fabrics
- Same professional results on natural or synthetic fibers
- Meets the requirements of flammability testing under AMS 1550 B

1 Quart .....P/N 09-05494 ..... ---
1 Gallon .....P/N 09-05493 ..... ---
5 Gallons .....P/N 09-05495 ..... ---

NUVITE REGARD WOOD TRIM POLISH AND CLEANER

Wood Trim Polish, Cleaner & Conditioner.

1 Pint P/N 09-05489.....---
1 Quart .....P/N 09-05488 ..... ---
1 Gallon .....P/N 09-05487 ..... ---
5 Gallons .....P/N 09-05490 ..... ---

NUVITE ELIMINATE LAVATORY CLEANING CONCENTRATE

Dependable sludge removal for lavatory holding-tanks & component parts.

• Biodegradable Super Soak • Safe for Equipment & Personnel • Non-Flammable/Non-Combustible • Exceptional Dispersal

1 Quart .....P/N 09-05507 ..... ---
1 Gallon .....P/N 09-05506 ..... ---
5 Gallons .....P/N 09-05508 ..... ---

NUVITE GOODBYE NF LAVATORY DEODORANT

Lavatory Deodorant – 19 Hour Verified Odor Control.

- Biodegradable, non-flammable, non-combustible
- Insures clean line & pump mechanisms
- Cleans & deodorizes holding tanks

1 Pin t.....P/N 09-05504 ..... ---
1 Quart .....P/N 09-05503 ..... ---
1 Gallon .....P/N 09-05502 ..... ---
5 Gallons .....P/N 09-05505 ..... ---

NUVITE WASH PADS

5 pack of 10" Wash Pads..P/N 09-06038 ..... ---

NUVITE VELCRO SWIVEL APPLICATOR HEAD

Applicator head for use with the Nuvite scrub pads. Attaches to all extendable poles for easy reach. Designed for 7/8" threaded handle. Includes permanent hook & loop hooks to securely hold either spun fibre applicator pads or hook & loop-style string mop pads. Allows you to easily change your head! 9" X 3 5/8" wide, durable, non-corroding plastic construction .....P/N 09-06040 ..... ---

NUVITE SKYDE CLEAR

Skyde Clear's polymeric resin formula relies on micro-technology to deposit an ultra-thin coating that is stone-hard strong, flexible and adds no extra weight. Bare metal is not only preserved, keeping its luster, but performance is optimized, assuring better flight efficiency and safety. **Features**:

• Skyde Clear's polymeric resin formula relies on micro-technology to deposit an ultra-thin coating that is stone-hard strong, flexible and adds no extra weight. Bare metal is not only preserved, keeping its luster, but performance is optimized, assuring better flight efficiency and safety

Skyde Clear Kit.....P/N 09-02095 ..... ---
Skyde Clear Accessory Kit .....P/N 09-02096 ..... ---

CS

NUVITE PRODUCTS - PROTECTANT SYSTEMS

NUGLAZE SUPER PAINT GLOSSER

Nuvite introduces NuGlaze to create a super high gloss "show quality" finish for paint in new or excellent condition, and it adds a U/V and sealant protection.
It will put that final "wet-look" finish on good paint, and can be used as a final step for maximum gloss after using a drywash cleaner/polish such as Nuvite NuPower II. With regular NuGlaze use, a continuing surface barrier against most of the effects of airborne chemicals and ultraviolet radiation is created. Paint can be maintained in "new" condition longer and maintain the color balance intended by the manufacturer with regular use. Bugs and normal soil remove easily from a NuGlaze surface, and the added gloss keeps the "new paint" look longer. NuGlaze is simple to use and avoids complicated setups and special application or buffing equipment. Proven techniques and continuing technology advancement from Nuvite have come together to produce NuGlaze - the best thing you can do to maintain and protect your near-new or "new-looking" paint.

1 Quart ..... P/N 09-05470 ..... ---
1 Gallon ..... P/N 09-01224 ..... ---
5 Gallons ..... P/N 09-01225 ..... ---

NUVITE CITRI-CUT CLEANER

NuVite CitriCut is a citrus based airframe wetwash and wipedown cleaner. Pleasant citrus smelling wet wash or wipe down cleaner that is especially friendly to the environment. Works great for standard wet washing with mops or scrub pads. When used as a wet wash, water sheets off, minimizing water spotting. CitriCut is also handy for hand debugging or hand wipe down without need for rinse -so there is no need for water or floor cleanup. Spray CitriCut at 1:8 from hand trigger sprayer for hand debugging or wipedown and wipe with terry towel until clean. Use a clean towel to buff up surface shine. No need to rinse surface. Supplied as concentrate—use 1:8 for hand wipe down or 1:16 in wet wash water.

1 Quart..... P/N 09-05471 ..... ---
1 Gallon ..... P/N 09-00584 ..... ---
5 Gallons ..... P/N 09-05370 ..... ---

NUVITE SS9-3 CLEANER

Nuvite SS-9-3 is the championship-caliber answer to the need for an effective and safe all-purpose liquid alkaline cleaner. It will clean the toughest of underbelly grease, oils and fluid leakage at full strength, or can be diluted to 1:12 to make an easy-to-use debugger and whole-airframe wipedown fluid that leaves a beautiful squeaky-clean and shiny surface that does not need to be rinsed. It works great for in-place cleaning during other airframe or engine maintenance.

1 Quart ..... P/N 09-02084 ..... ---
1 Gallon..... P/N 09-04072 ..... ---
5 Gallon..... P/N 09-04074 ..... ---
55 Gallon..... P/N 09-04075 ..... ---

NUVITE POLISH/PROTECTANT SYSTEMS

Nuvite's surface finish enhancement and protection technology offers the highest-performance surface maintenance and protection systems available. These products are designed to be used on your aircraft, boat, recreational vehicle, truck, auto or other vehicle anywhere, anytime. Nuvite has the answer for your operations in an EPA-sensitive environment.

NUPOL POLISH / RESTORER / UV PROTECTANT

Same easy wipe on, let dry, wipe off surface cleaner with enhanced cleaning and oxidation removal capabilities. Ideal for tough cleaning due to long intervals between cleanings. Leaves a beautiful shine and an effective UV protective barrier.

1 Quart ..... P/N 09-00583 ..... ---
1 Gallon..... P/N 09-00582 ..... ---
5 Gallon..... P/N 09-05468 ..... ---

NUPOWER II POLISH/UV PROTECTANT

Dry Wash Cleaner and Polish (Routine dry wash cleaning with gloss enhancement and UV protectant barrier) - Use for routine cleaning where wetwashing is not possible or gloss enhancement is desired. Contains non-abrasive media to remove even stubborn soiling. Cleans dirt, carbon and oil and leaves a protective barrier against UV deterioration of paint. Can also be used to clean bare metal surfaces.

1 Quart ..... P/N 09-00581 ..... ---
1 Gallon..... P/N 09-00580 ..... ---
5 Gallons..... P/N 09-05430 ..... ---

NUVITE LEATHER GUARD

Nuvite Leather Guard helps you keep that brand-new, supple, fine finished leather look and feel for luxury aircraft, RV or automotive seating, fine furniture or institutional use. Leather Guard is the finest enrichening formula available for leather nutrition.

1 Quart..... P/N 09-02091 ..... ---
1 Gallon ..... P/N 09-05483 ..... ---

NUVITE C-49 SUPERCLEANER

Nuvite C-49 SuperCleaner is the most versatile and effective cleaner you can buy when you want to clean fabrics, leather, carpet, plastics, laminates and even metals! In other words, for cleaning all types of surfaces generally found in commercial & private aviation, building or institutional interiors, RV, truck and marine interiors, or even home interiors!

1 Gallon ..... P/N 09-02089 ..... ---
5 Gallons ..... P/N 09-05482 ..... ---

NUSHINE II POLISH/ SYSTEM

Nuvite engineers have formulated a system of polishes to meet the needs for almost any metal and paint polishing project. New metal to antique, the formulations in the NuShine II Polishing System will give superior definition, highlights, imagery, clarity, and will retain the finish longer than normal polishes. Nuvite's NuShine II graded polishes use high technology materials with programmed abrasive characteristics and are blended with superior carriers to offer the ability to produce cutting action when needed, yet offer micron-level finishing in the finer grades that produces highest reflectance and image excellence.

GRADE A

A medium finishgrade that gives a clear, clean shine and can be used as a light cutting grade to remove very slight oxidation, such as when a good polish job starts to slightly degrade.

1 lb..... P/N 09-05444 ..... ---
1/4 lb. jar..... P/N 09-05445 ..... ---
0.5 lb. jar..... P/N 09-02088 ..... ---
10 lb. Pail..... P/N 09-05446 ..... ---

GRADE C

(For unpolished aluminum and repolishing degraded brightwork). C is a cutting grade polish that we recommend to prep for using Grade S.

0.5 lb. jar..... P/N 09-00587 ..... ---
1 lb..... P/N 09-05341 ..... ---
10 lb. Pail..... P/N 09-05345 ..... ---

GRADE F7

F7 has a very hard and sharp, but very fine media that continues its action throughout the buffing process. It is best used for removing heavy oxidation, corrosion, pits or scratches from aluminum surfaces.

1/4 lb. jar..... P/N 09-05453 ..... ---
0.5 lb. jar..... P/N 09-02087 ..... ---
1 lb..... P/N 09-02087-1 ..... ---
10 lb. Pail..... P/N 09-05344 ..... ---

GRADE F9

F9 is used where the surface has been damaged by stripping processes, sanded or scratched by abrasive cloth.

.5 lb. jar..... P/N 09-02086 ..... ---
1 lb..... P/N 09-05454 ..... ---
1/4 lb. jar..... P/N 09-05455 ..... ---
10 lb. Pail..... P/N 09-05456 ..... ---

GRADE F10

F10 is the coarsest Nuvite grade. It is unnecessary in most polishing jobs. On soft metals like aluminum, F10 should be avoided unless necessary because it is time-consuming to remove its scratches.

1/4 lb. jar..... P/N 09-05458 ..... ---
0.5Lb..... P/N 09-05461 ..... ---
10 lb. Pail..... P/N 09-05462 ..... ---

GRADE G6

G6 has a high-tech abrasive system that is designed to do a quick, aggressive cut. Use when there is heavy oxidation on the surface of aluminum.

1/4 lb. jar ..... P/N 09-05449 ..... ---
0.5 lb. jar..... P/N 09-00586 ..... ---
1 lb..... P/N 09-05448 ..... ---
10 lb. Pail..... P/N 09-05451 ..... ---

GRADE S

The finishing grade that gives the really deep, clear image when used as a final finish over a properly prepared, oxidation-free surface.

0.5 lb..... P/N 09-00578 ..... ---
1 lb..... P/N 09-05342 ..... ---
1/4 lb. jar..... P/N 09-05440 ..... ---
10 lb. Pail..... P/N 09-05442 ..... ---

CS

AERO GLOSS

Aero Gloss polish is used by 80% of the world's major airlines. It is now available to the general aviation and experimental aircraft market. Removes turbine soot and exhaust stains from paints. It is an excellent plexiglass polish and can be applied with a power buffer. It takes 1-2 pints and 3-4 hours to polish an average Cessna 182 with Aero Gloss.

1 Pint .....P/N 09-38100 ..... ---
1 Gallon .....P/N 09-38101 ..... ---
5 Gallon. .....P/N 09-02180 ..... ---

STAR BRITE AIRCRAFT POLISH

This exceptional new polish cleans off dirt, stains and oxidation and restores the original bright color of the aircraft leaving a dazzling shine. StarBrite also cuts fuel consumption and boosts speed by reducing drag an amazing 5.5%. Contains no wax, oils or acids.

16 fl.oz. ..... P/N 09-23900 ..... ---

SKYWASH DRYWASH & WAX

High quality waterless cleaner with protective finish. SKY-SE1™ cleans and leaves a high gloss, protected, surface shine. Reduces maintenance time and produces no contaminated water run-off. A solution that preserves paint life, protects against corrosion and leaves the aircraft surface in aerodynamically clean condition. Approvals: Boeing D6-17487 REV R, AMS 1650C, CSD-1, Airbus AIMS 09-00-002-3 specifications. SKY-SE1™ Drywash with paint protection is a waterless cleaning method that is safe to use in the same area where maintenance can be done at the same time, reducing maintenance downtime and turnaround time. Aircraft cleaning - without water - odorless. Economic and safe Problem-free and safe application, waterless, multifunctional, high efficiency. Made in the USA

16 ounces .....P/N 09-03805 ..... ---
1 Gallon .....P/N 09-03806 ..... ---
5 Gallons .....P/N 09-03807 ..... ---

TOP GUN ULTRA FINISH

One-step product for all aircraft finishes. Removes surface contaminates and oxidation though a unique chemical process, rather than using harsh abrasives. The coating left behind is not a wax, but an extremely hard and durable sealant. This affords superior long term protection (up to 12 months or longer), and easier cleaning of your finish. Once applied, bugs and corrosive elements remove more easily. Very effective in restoring clarity to plexiglass windshields, side windows, and lenses. 16 fl. oz. Made in the U.S.A. 16 ounces ..... P/N 09-00192 ..... ---

AUTO GLOSS POLYMER WETCOAT

Polymer Wetcoat removes mild oxidation leaving your auto's finish protected for one full year. No other product can make that claim. A combination of polymeric resins and 100% premium carnauba creates the most durable finish on the market.

16 fl. oz. ..... P/N 09-00157 ..... ---

MASTER FORMULA - SEALER GLOSS

Master Formula Sealer Gloss Protective Sealer waterproofs, protects and seals any hard surface. It leaves a durable, glossy protective coating that's easily maintained and lasts up to one full year. Master Formula Sealer Gloss is excellent for use on any metal or painted surface. These surfaces include all car finishes including clear coasts, gel coasts, plastics fiber glass. They also include all metal surfaces such as aluminum, chrome, brass, stainless steel, gold, silver and more.

16 ounces..... P/N 09-02077 ..... ---

MASTER FORMULA METAL GLOSS

The beautiful wet look. Master Formula™ Metal Gloss metal polish-polishes aluminum, chrome, brass, copper, stainless steel, gold, silver and more to be a beautiful high gloss.

Features: • Chrome, Aluminum, Brass, Gold, Silver, Polish, Cleaner • Used for Auto and Motorcycle chrome cleaner and polish • The formula was created using jewelers rouges originally designed to polish the most expensive precious metals in the world: gold, silver, platinum etc.

12 ounces.....P/N 09-02069 ..... ---

BUG BLASTER SPRAY

Dissolves and removes bugs without scrubbing - no elbow grease is required! This is a quick, time saving product. Just spray, wait and wipe. Finally a product that solves messy problems without being messy!! Unlike other formulations, when sprayed, Bug Blaster instantly attacks bug proteins and acids. You will not have the dripping, messy run-off you have with conventional bug removers. Perfect for use in paint shop.

8 ounces.....P/N 09-05599 ..... ---
32 ounces .....P/N 09-02080 ..... ---
1 Gallon.....P/N 09-02081 ..... ---

MET-ALL DETAIL POLISHING KIT

Met-All's Detail Polishing Kit will produce a show room finish on bare metal, painted surfaces and fiberglass using Met-All polishes and premium bonnets. Each bonnet features a recessed loop back so the edge and face can be effectively used with less concern for marring the finish. Change pads quickly and easily. Ideal for polishing aircraft, cars, motorcycles, boats etc.

P/N 09-00448 ..... ---

BLUE MAGIC METAL POLISH

Blue Magic produces a deep mirror shine. The oxide residue left after polishing is easily wiped off with a rag. A small amount will polish a large area. Airshow aerobatic pilot Chuck Lischer, Jr., whose high performance Swift is shown here, recommends Blue Magic as the best polish available for polished aluminum aircraft.

#500 1 lb. Can.....P/N 09-24600 ..... ---

210® PLASTIC CLEANER/POLISH

• Anti-static, Anti-fog • Will remove marks from crayons, magic markers and paint oversprays • Removes residue glue from protective backings and masking tape • Evaporating properties in the formula - cleaning is quick and easy without leaving any streaks or swirl marks • Resists fingerprints • Seals pores in plastic and leaves a protective coating • Pleasant clean aroma • Gives plastic a clear, lustrous look.

7 ounces..... P/N 09-00518..... ---
14 ounces..... P/N 09-00517..... ---

210® WINDSHIELD CARE KIT

Recommended by LP Aero Plastics and other leading aircraft windshield manufacturers, our 210® Plastic Cleaner & 210® Plus will help keep your windshield crystal clear and scratch free for safe, enjoyable flying. Our Windshield Care Kit Contains: (1) 7 oz. 210® Anti Static/Anti-Fog cleaner & polish, (1) 7.5 oz. 210® Plus Anti-Static plastic scratch remover, (100) 9"x 16" Sontara Aircraft Wipes. .....P/N 09-00521 ..... ---

CLEAR VIEW PLASTIC POLISH AND PROTECTANT

Clear View™ makes clear plastics look like new. It is designed to fill in fine scratches on plastic windshields and windows, leaving a perfect like new finish. It leaves no residue, just spray it on and wipe it off. It is safe on all plastics and is non-abrasive.

13 ounces .....P/N 09-00531 ..... ---

EASY ALUMINUM POLISH

EASY ALUMINUM POLISH – Imagine a metal polish so brilliant that billet aluminum looks like chrome! How about achieving these results in seconds with no effort! And what if this "mirror" shine you've just created lasted for an unbelievably long time before needing touch-up? This is PPC's EASY POLISH! Months of tedious research and formulation led to the development of this incredible product – easiest to use, shiniest by far, longest-lasting protection in the industry. Find out why EASY is the metal polish most endorsed by both wheel manufacturers and auto enthusiasts! Dazzling Shine in Seconds! Polishes without scratching. Removes hazing, discoloration and water spots. Restores depth, gloss, clarity. Protects with acrylic polymer barrier. Works on all metals, even jewelry.

32 ounces.....P/N 09-04365 ..... ---

MET-ALL

An aluminum polish which removes and prevents pitting. Makes aluminum shine with mirror-like brilliance. Non-toxic, non-abrasive and non-flammable. A non-silicone product which resists further corrosion. Meets military specifications.

1 Lb. Can.....P/N 09-24200 ..... ---
2 Lb. Can.....P/N 09-24300 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

REALCLEAN DISINFECTANTS

REALCLEAN REAL SHINE DE-ICE BOOT SEALANT

Real Shine Boot Sealant offers an unmatched high-gloss shine while conditioning de-ice boots to prevent drying and cracking. Real Shine De-Ice Boot Sealant also protects boots from harmful UV Rays which over time will damage the boots. Keep your de-ice boots looking their best with the Real Shine System.

P/N 09-03771 ..... ---

REALCLEAN REAL SHINE DE-ICE BOOT PREP

Real Shine Aircraft Deice Boot Prep is formulated for easy stripping of old sealant and dressings from aircraft boots. Real Shine is easy to use and will completely strip and clean the boot surface to reveal a clean bare surface ready for the Real Shine Sealant application..... P/N 09-03770 ..... ---

REALCLEAN TURBINE SOOT MASTER

Turbine Soot Master is a carbon soot cleaner and degreaser designed to effectively address carbon exhaust build-up and staining that plagues most turboprop aircraft. Our streak-free formula safely dissolves carbon, grease and oil revealing a clean surface with very little effort. This product is rinse-free and does not require any water. Just spray on and wipe the surface clean with a microfiber or terry cloth. This Product may be diluted 1 part Turbine Soot Master to 1 part Water for lighter exhaust soot, soils or grease cleaning.

16 Ounce..... P/N 09-05673 ..... ---
32 Ounce..... P/N 09-03768 ..... ---
1 Gallon..... P/N 09-03769 ..... ---
5 Gallon..... P/N 09-05338 ..... ---

REALCLEAN STREAMLINE SPEED WAX

Streamline Speed Wax is a high gloss aircraft polish and waterless dry wash cleaner that offers unmatched performance by any other aviation wax. Streamline is specially designed to be thin enough for spray on application yet still maintain and exceed the cleaning and high gloss characteristics of the heavier, hard to use waxes available. Streamline is silicone-free to prevent P Static build-up and offers excellent UV protection (UV is the leading cause of oxidation in aircraft paint) Streamline is safe for all aircraft paint and interior polished wood trim. If you're looking for the ultimate aircraft appearance and ease of use, try Streamline Speed Wax.

32 ounce..... P/N 09-03772 ..... ---
1 Gallon..... P/N 09-03773 ..... ---

REALCLEAN POST FLIGHT INTERIOR / EXTERIOR CLEANER

Post Flight is a high performance Interior and Exterior liquid cleaner and polish that is safe for all surfaces. It is designed for light duty ultra-fast post flight and quick turn cleaning. Just spray Post-Flight on any surface and wipe away, leaving a clean beautiful shine. Post-Flight contains micro-waxes that clean and shine paint, aluminum, Plexiglas, polished wood and plastic to a beautiful high gloss finish. Use to quickly remove bugs, soot, dirt, dust, and fingerprints between flights. Post Flight Aircraft Detailing Spray is the quickest way to keep your aircraft interior and exterior clean and looking great between flights. Post Flight leaves surfaces fingerprint resistant. Not recommended for use on flight instruments or displays.

16 ounce..... P/N 09-05674 ..... ---
32 ounce..... P/N 09-03774 ..... ---
1 Gallon..... P/N 09-03775 ..... ---

REALCLEAN AEROCIDE INTERIOR AIRCRAFT DISINFECTANT

AeroCide, designed for sanitation of hard and soft surfaces in your aircraft. RealClean© AeroCide Interior Aircraft Disinfectant Spray Bottle and Wipes are developed with guidance from Gulfstream's Aircraft Disinfecting Procedures, the World Health Organization (WHO) and Centers for Disease Control and Prevention (CDC) when cleaning and sanitizing is to wear PPG including gloves, mask and eye protection.

Note: While these methods are offered in good faith As Real Clean Aviation Products© navigates the evolving impact of coronavirus throughout communities, Real Clean Aviation Products© is still learning and understanding the most effective approach and no responsibility is accepted for claims arising following procedures.

Spray Bottle - 32 oz..... P/N 09-05719 ..... ---
Wipes - 160 per Container..... P/N 09-05724 ..... ---

REALCLEAN DRY WASH PRO

The name says it all! Keep your aircraft clean without the hassle of wet washing. Dry Wash Pro removes contaminants that can damage aircraft paint. Saves time saves water but does not compromise results. Used by professionals, pilots and aircraft owners alike! Spray directly on the surface and immediately remove using a clean microfiber cloth. No rinsing required.

Features: Environmentally friendly • Biodegradable formula • Does NOT contain Wax • 100% Streak Free • Sanitizes hard surfaces including aircraft paint, metal, counter tops and polished wood surfaces • Exterior and Interior safe

16 Ounce..... P/N 09-05679 ..... ---
32 Ounce..... P/N 09-05680 ..... ---
1 Gallon..... P/N 09-05681 ..... ---
5 Gallon..... P/N 09-05682 ..... ---

REALCLEAN CLEAR BLUE PREMIUM WASH CONCENTRATE

Clear Blue Aircraft Wash is a premium concentrated wash specially designed for aircraft use.

Features: • Safe for all exterior aircraft surfaces • Effectively dissolves dirt, grease, oil, and insect matter • Works great in foam sprayer • Contains "REAL CLEAN" micro-waxes to enhance gloss level for the ultimate finish

32 Ounce..... P/N 09-05676 ..... ---
1 Gallon..... P/N 09-05677 ..... ---
5 Gallon..... P/N 09-05678 ..... ---

REALCLEAN LEATHER RESTORE

Leather Restore is an exciting and new cutting edge technology that combines the power of top quality leather cleaners and conditioners with REALCLEAN'S proprietary micromesh melamine sponge to bring you the finest leather deep cleaning and care product available. The easy 3 in 1 system deep cleans, conditions and restores the look and feel of leather, vinyl and plastic to restore your interior back to new in no time!

Specifications: • Safe for all exterior aircraft surfaces • Effectively dissolves dirt, grease, oil, and insect matter • Works great in foam sprayer • Contains "REAL CLEAN" micro-waxes to enhance gloss level for the ultimate finish ..... P/N 09-05683 ..... ---

REALCLEAN WINGMAN BUG REMOVER SPRAY

Wingman Bug Remover Spray Fast-acting cleaner Dissolves and lifts insect matter Spray on and wipe-off.

Features: • Fast-acting cleaner • Dissolves and lifts insect matter • Spray on and wipe-off • Protects aircraft finish from the damaging acidic residue left by insects

16 Ounces..... P/N 09-05675 ..... ---
32 Ounces..... P/N 09-05331 ..... ---
1 Gallon..... P/N 09-05332 ..... ---

REALCLEAN PREMIUM MICROFIBER DETAILING CLOTHS

Quality microfiber cloths are designed to make cleaning easier and faster, due to the millions of microscopic fibers that make up the fabric. Real microfiber fabric is 100 times finer than human hair and have almost 100 thousand fibers per square inch. Use microfiber cloths for wax removal, cleaning windows, dry washing, polishing wood, cleaning leather and upholstery. Our microfiber cloths are safe for all surfaces including aircraft windows as they are ultra soft, scratch and lint free. Just wash and reuse..... P/N 09-03780 .....

REALCLEAN ADVANTAGE CARPET UPHOLSTERY CLEANER

Advantage Carpet and Upholstery Cleaner and Stain remover.

32 ounce..... P/N 09-03778 ..... ---
1 Gallon..... P/N 09-03779 ..... ---

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MEGUIARS ULTIMATE PROTECTANT

For superior UV protection and shine on rubber, vinyl and plastic that lasts weeks, look no further than Meguiar's Ultimate Protectant. Utilizing break-through UV clear-coat technology, Ultimate Protectant offers superior UV protection with shine that significantly outlasts conventional products, creating a rich shine and darkness on interior surfaces, while bringing new life to exterior trim, moldings and tires.

Quantity: 16 ounces.....P/N 09-03437 ..... ---

MEGUIARS ULTIMATE BLACK

Makes trim and plastic look like new, with extended durability that lasts for weeks! Restore new life to all exterior plastic, vinyl and rubber trim such as bumpers, moldings, door handles, rearview mirror housings and windshield cowlings. Utilizing breakthrough UV clear-coat technology, Meguiar's Ultimate Black significantly outlasts conventional protectants and trim-care products. This durable formula dries almost instantly and, once cured, will not streak when treated surfaces get wet.

Quantity: 12 ounces.....P/N 09-03442 ..... ---

MEGUIARS PROFESSIONAL DA POLISHER 110-127V

Born out of the desire to give professional detailers and body shops the very best solutions to deliver flawless results time after time is Meguiar's MT300 Dual Action Polisher. Designed by professionals, for professionals, the MT300 delivers features that pros demand. From the lightweight, ergonomic form, to the billet counter weight with multi bearing design, to Meguiar's Digital Torque Management speed controller, the MT300 is destined to be the workhorse polisher in shops around America. When used as the system foundation for our new, low-profile Soft Buff Foam Discs or our breakthrough DA Microfiber System, Meguiar's enables you to start achieving the results that you expect & need! Wide 3000 – 7500 OPM speed range for maximum control. 8mm throw optimized for compounding, polishing and waxing on both large surfaces & in tighter contours. Digital Torque Management ensures proper torque to maintain load speed level. Machine does not include backing plate or pads.

P/N 09-04525 ..... ---

MEGUIARS ROTARY FOAM CUTTING PAD 7 INCH

Improved foam technology cuts through moderate surface defects with less swirls. Reduced operating temperature. 7" pad size reduces chatter resulting in smooth, easy buffing. Recessed backing for easy centering. For use with rotary polisher and WRBP (09-04522) backing plate .P/N 09-04523 ..... ---

MEGUIARS ROTARY FOAM FINISHING PAD 7 INCH

Improved foam technology eliminates minor surface defects while restoring a luxurious high-gloss finish. 7" pad size reduces chatter resulting in smooth, easy buffing. Recessed backing for easy centering. For use with rotary polisher and WRBP (09-04522) backing plate.

P/N 09-04524 ..... ---

MEGUIARS ROTARY BACKING PLATE

Designed for 7" & 8" Soft Buff™ rotary pads. Allows quick and easy pad changes with hook & loop attachment system. Self-centering system guarantees pad balance. Fits all rotary polishers with 5/8" diameter shaft .....P/N 09-04522 ..... ---

FINAL INSPECTION (NO. 34)

Mists on and wipes off to remove fresh contaminants and maintain a showroom shine...anywhere, anytime. High lubricity formula removes dust, fingerprints, contaminants and fine scratches. Contains optical brighteners for a high gloss shine. It is "paintable", safe for use in a paint shop environment and safe on all paint finishes, including clear coats.

16 oz.....P/N 09-00446 ..... ---
1 Gal.....P/N 09-00445 ..... ---

MEGUIAR'S® MIRROR GLAZE® SYNTHETIC SEALANT 2.0

Meguiar's® Mirror Glaze® Professional Synthetic Sealant 2.0 is synthetic polymer formulation that provides technologically advanced paint care and protection. It produces a noticeable deeper, darker, more reflective paint finish while advanced synthetic polymers deliver extreme protection. This professional grade sealant also visually eliminates fine scratches and swirls, creating a flawless finish while providing amazing gloss with Hydrophobic water beading action. It glides on easy, with a smooth, resistance-free wipe-off making it extremely easy to use while delivering an amazing finish. 64oz. ....P/N 09-06409 ..... ---

MEGUIARS DA FOAM CUTTING DISCS

Improved foam technology cuts through moderate surface defects with no swirls. Low profile for optimized performance Advanced finishing results from increased disc and tool efficiency. For use with Dual Action Polisher and DBP5 (09-04559) / DBP6 (09-04533) backing plate.

5".....P/N 09-04536 ..... ---
6".....P/N 09-04526 ..... ---

MEGUIARS DA FOAM FINISHING DISCS

Improved foam technology eliminates minor surface defects while restoring a luxurious high gloss finish with no swirls. Low profile for optimized performance. Advanced finishing results from increased disc and tool efficiency. For use with Dual Action Polisher and DBP5 (09-04559) / DBP6 (09-04533) backing plate.

5".....P/N 09-04534 ..... ---
6".....P/N 09-04528 ..... ---

MEGUIARS DA BACKING PLATES

Distributes pressure for smoother sanding and finishing. Precisely tuned outer edges for ideal disc contouring over flat and curved surfaces. Quick and easy disc changes with micro hook and loop attachment system. Fits all DA Polishers with 5/16" diameter shaft.

5".....P/N 09-04559 ..... ---
6".....P/N 09-04533 ..... ---

MEGUIARS DA FOAM POLISHING DISCS

Meguiar's innovative low profile Soft Buff DA Foam Polishing pads are optimized for advanced polishing results from increased pad and DA polisher efficiency. Improved foam technology eliminates minor surface defects while restoring gloss with no swirls.

5".....P/N 09-04535 ..... ---

MEGUIAR'S FOAM APPLICATOR PADS 4 PACK

Meguiar's® Soft Foam applicator pad uses a tight cell, ultra soft foam for smooth application on all surfaces including leather, vinyl, and rubber.

4 Pack.....P/N 09-06056 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MEGUIAR'S PRODUCTS

GOLD CLASS CAR WASH SHAMPOO & CONDITIONER

Meguiar's® Gold Class™ Car Wash Shampoo & Conditioner is a rich and luxurious product designed to both wash and condition paint in one easy step. The premium formula gently foams away tough dirt, road grime and contaminants without compromising wax protection. Ultra rich paint conditioners clear away debris to reveal color and clarity, leaving paint looking radiant

64oz. .....P/N 09-02331 ..... ---

GOLD CLASS WAX

Elegant, timeless, premium...Since its introduction, Meguiar's® Gold Class™ Liquid Wax has inspired automotive enthusiasts worldwide to pamper, condition and protect their treasured investments. Our unique and proprietary blend of conditioners nourish and enrich paint to create clear, deep reflections and brilliant shine. Carnauba and polymer protecting agents reflect damaging UV rays, remove fine swirls, and create strong, long-lasting protection to preserve your finish.

Liquid .....P/N 09-02333 ..... ---
Paste .....P/N 09-02334 ..... ---

GOLD CLASS™ RICH LEATHER LOTION, SPRAY & WIPES

Meguiar's® Pamper and protect your leather in one easy step with Meguiar's improved Gold Class Rich Leather Cleaner Spray and Wipes. The enhanced, premium blend of moisturizers and nutrients - now with aloe for improved conditioning - quickly absorbs into leather for a natural, nongreasy finish. The convenient spray format is great for large areas or when working on perforated leather. The wipes feature 25 thick, textured wipes saturated with our enhanced, premium blend of moisturizers and nutrients deeply nourish fine leather. Each contains advanced sunblocking agents and UV sunscreens to help defend against premature wear and fading.

Spray .....P/N 09-02316 ..... ---
Wipes.....P/N 09-02317 ..... ---

QUIK INTERIOR DETAILER

The fastest way to clean all interior surfaces. Use every time you wash or Quik Detail your paint to give your interior that "just detailed" look. In just 5 additional minutes, your entire interior will look sharp and smell fresh. Quickly and easily maintains the look and feel of interior plastics, vinyl, leather, rubber, metal and even audio/video equipment. The safe, high lubricity formula lifts off dust, ashes, dirt, grime, spills and fingerprints without build-up. And, unlike traditional protectants that leave an artificial greasy feeling, Quik Interior Detailer leaves your interior surfaces looking natural and revitalized.

Spray .....P/N 09-02339 ..... ---
Wipes.....P/N 09-02340 ..... ---

NATURAL SHINE PROTECTANT

Maintain that "like new" look on dashboards, trim, tires and more. Natural Shine's complex formula includes mild cleaning agents that help remove daily dirt and grime and restore the original, natural finish. Includes UV blockers to help reduce the effects caused by the sun.

P/N 09-02342 ..... ---

DEEP CRYSTAL® CAR WASH

Contains special ingredients that extend the life of the suds. Dirt and grime are quickly loosened and removed while wax protection is preserved. For unparalleled performance, use with Meguiar's® Microfiber Wash Mitt.

P/N 09-02337 ..... ---

CLEANER WAX

Meguiar's® most versatile, one step wax specially formulated to produce eye-dazzling results on all finishes. Rich conditioning oils and legendary gentle cleaning ability make it an excellent choice for daily drivers exposed to the elements.

Liquid .....P/N 09-02318 ..... ---
Paste.....P/N 09-02319 ..... ---

DEEP CRYSTAL® SYSTEM CARNAUBA WAX

Creates a strong, protective barrier on your paint that locks in shine and gloss. Our long-lasting, tried-and-true formulation utilizes the highest grade of carnauba to protect all paint surfaces, including clear coats.

16oz. .....P/N 09-03426 ..... ---

QUIK DETAILER®

Keeps a waxed car looking "just waxed". Clear coat safe, Meguiar's Quik Detailer removes harmful contaminants before they damage your finish. Use Quik Detailer right after your car is sprayed by a water sprinkler, hit by a bird dropping, or exposed to any other condition that ruins your "just waxed" appearance. Details a full sized car in less than 15 minutes!

16oz. .....P/N 09-02322 ..... ---
32oz. .....P/N 09-02323 ..... ---

MEGUIAR'S QUIK WAX

This wax creates a brilliant gloss and adds wax protection. Use on wet or dry surface. Quickly and easily maintains gloss between periodic waxings. Suitable for use on fiberglass, painted surfaces, stainless steel, clear plastic and other non-porous surfaces (Do not use on glass windows). Use wax only after the surface has been cleaned and restored to a "like new" or "average" finish.

24 oz.....P/N 09-04564 ..... ---

SUPREME SHINE PROTECTANT

With the addition of Supreme Shine Protectant to the Meguiar's® line-up, Meguiar's now has a protectant family that offers users the ability to choose from two different levels of shine. For those who love shine, Supreme Shine Protectant is the fastest and easiest way to create a hi-shine surface on vinyl, rubber, and plastic surfaces.

450ml.....P/N 09-02349 ..... ---

CS

MEGUIAR'S PRODUCTS

MEGUIAR'S SCRATCHX

Keep ScratchX® 2.0 close at hand for quick removal of isolated paint scratches or blemishes … whenever they occur. Competitive products either hide the blemish or scratch the finish. Meguiar's® exclusive micro-abrasive system enables ScratchX 2.0 to remove paint blemishes fast while restoring brilliant high gloss. The new and improved formula can be applied by hand or with a DA.

P/N 09-00304 ..... ---

MEGUIAR'S PLASTX CLEAR PLASTIC CLEANER POLISH

This easy-to-use, rich gel formula quickly restores optical clarity to both rigid and flexible clear plastics. Cutting-edge advancements in Meguiar's® exclusive Microscopic Diminishing Abrasive™ Technology (MDAT) remove light oxidation, chemical degradation, surface contamination, stains and light surface scratches with ease. Special highly water resistant polymers provide long lasting durable protection to keep your clear plastics clear and beautiful longer. We recommend applying PlastX with a High Tech Applicator Pad or Ultra Plush Super Terry and using an Ultra Plush Super Terry or Supreme Shine® Microfiber for the final wipe-off .....P/N 09-02324 ..... ---

CS

MEGUIAR'S ENDURANCE AEROSOL TIRE SPRAY

Our best performing, longest lasting aerosol! Endurance is a significant advancement in tire protection technology. Proprietary macropolymers and copolymers protect against UV damage and tire browning. The end result is that your tires stay black – with a rich, dark, high-gloss shine – for weeks longer than ordinary tire-shine products. See for yourself why Endurance is the enthusiast's favorite for high-gloss shine that lasts!

Quantity: 15 ounces.....P/N 09-03440 ..... ---

MEGUIAR'S HYBRID CERAMIC LIQUID WAX

Meguiar's, sophisticated, Hybrid Ceramic chemistry makes this product as easy to apply as an ordinary liquid wax! Engineered to be applied by either hand or dual action variable speed polisher (DA polisher), this formula produces a slick, protective, water beading layer that seals your paint from the environment. And it may be used on chrome & plastic trim, or as a top coat over traditional waxes & sealants, too!.....P/N 09-05709 ..... ---

MICROFIBER WASH MITT

Meguiar's® extra thick Microfiber Wash Mitt is the ultimate choice for show car perfect finishes. The clear coat safe Microfiber lifts and traps dirt and grime for a brilliant, swirl-free finish. The comfort-fit cuff and soft inner lining make this wash mitt a pleasure to use.

P/N 09-02355 ..... ---

MEGUIAR'S DETAILER SYNTHETIC XPRESS SPRAY WAX

Meguiar's® Synthetic X-Press™ Spray Wax uses a unique blend of Hydrophobic Polymer Technology™ to produce durable deep rich gloss with easy application and instant wipe off. VOC FREE Formula.

- Create deep dark wet-look shine
- Can be applied in direct sunlight
- Dries clear on plastic trim
- Fast wet or dry car application

Gallon .....P/N 09-04689 ..... ---

MEGUIARS SUPREME SHINE® MICROFIBER TOWEL

Meguiar's® Supreme Shine® is an incredibly plush microfiber towel for producing swirl free, mirror-like results. The thick, deep dual-sided microfiber pile absorbs two times more than traditional terry towels providing faster wipe off with less strokes.

3-pk.....P/N 09-02354 ..... ---

AERO WASH WAX MOP KIT

Wash Wax Mop Kit: ALL you need to get started with the New Waterless Wash Wax Mop. The Wash Wax Mop was specifically designed for aircraft and is the only mop with two sides. One wet and one dry. Now you can waterless wash and wax with the reach and leverage of an extension pole. This allows you to clean a much larger area faster and with less effort, all from the safety of the ground. No ladder needed. Customers report time savings up to 50% over waterless hand application. Simply spray Wash Wax ALL on the Wet Side of the mop, wipe the aircraft with the wet side, flip the mop over, and wipe dry with the dry side. Includes: (1) Mop head with two (2) Microfiber Mop pads , (1) Deluxe Mop Pole, (1) Pack of four (4) Microfiber Mop pads, (1) Pack of four (4) Aero Towels (1) Gallon of Wash Wax ALL, (1) 16oz spray bottle, (1) 16oz Wash Wax ALL (Degreaser), (1) Aero Scrubber Pad with Handle and an Aero Bag to store and carry the kit.

Replacement Waterless Mop Pads (4).....P/N 09-03503 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

XHAUST & SOOT REMOVER

A powerful, concentrated, multipurpose aircraft cleaner/ degreaser formulated to clean the toughest exhaust soot, belly grime and bug splats – all while being gentle on all aircraft surfaces. MEETS BOEING D6-17487 REVISION R. Earth friendly! It is water soluble, nonflammable, nontoxic and biodegradable. It will not harm rubber, insulation, plastics or wiring.

1 Gallon ..... P/N 09-03836 ..... ---
5 Gallon ..... P/N 09-03837 ..... ---
30 Gallon ..... P/N 09-03838 ..... ---
55 Gallon ..... P/N 09-03839 ..... ---

AERO GLIDE DRY WASH

One-Step Dry Wash, Polish & Friction Reducer. Leaves a high gloss protective finish on aircraft and other vehicles that reduces surface friction and exhaust stains. Apply either directly onto the surface to be cleaned or pour a small amount onto a cloth and wipe on. Any soft, lint free cloth will work fine. Microfiber rags or applicator pads are excellent for this purpose. As you wipe away dirt, grime and exhaust away, Aero-Glide will leave a bright lustrous brilliant shine.

16 oz. ..... P/N 09-03815 ..... ---
1 Gallon ..... P/N 09-03816 ..... ---
5 Gallon ..... P/N 09-03817 ..... ---
30 Gallon ..... P/N 09-03819 ..... ---
55 Gallon ..... P/N 09-03821 ..... ---

MR DETAIL INSTANT DETAILER

The instant detailer that cleans and shines like magic. Get that 'just detailed' look between regular washing and waxing (or RejeX-ing). Quickly and easily removes dust, road film, fingerprints, streaks and water spots safely from most vehicle surfaces. Make sure surface to be treated is cool to the touch. Mist Mr. Detail onto a small area (approximately 1-8 square feet). Wipe until area is clean and shiny, and Mr. Detail is absorbed into the cloth. Do not allow excess product to dry on the vehicle.

16 oz. ..... P/N 09-03822 ..... ---
32 oz. ..... P/N 09-03823 ..... ---
1 Gallon ..... P/N 09-03824 ..... ---
5 Gallon ..... P/N 09-03825 ..... ---

NVIRO SOLVE AIRCRAFT BELLY CLEANER / DEGREASER

A bio-based organic cleaner made from various plant and fruit derivatives. Removes baked-on oil deposits, as well as heavy grease, from painted or unpainted surfaces. Totally biodegradable when rinsed with water. Can be diluted 3:1 with water to dissolve lighter accumulations.

16 oz. ..... P/N 09-03826 ..... ---
1 Gallon ..... P/N 09-03827 ..... ---
5 Gallon ..... P/N 09-03828 ..... ---
30 Gallon ..... P/N 09-03829 ..... ---
55 Gallon ..... P/N 09-03830 ..... ---

PRO WASH RX PH NEUTRAL SOAP

Super-concentrated, pH balanced, shine enhancing soap. Contains special rinsing agents that help eliminate spotting and streaking. Apply with a sponge or soft bristled brush, and agitate the rich foamy suds, rinse, and towel dry or air dry.

1/2 Gallon ..... P/N 09-03831 ..... ---
1 Gallon ..... P/N 09-03832 ..... ---
5 Gallon ..... P/N 09-03833 ..... ---
30 Gallon ..... P/N 09-03834 ..... ---
55 Gallon ..... P/N 09-03835 ..... ---

XTREME FINISH DRY WASH & WAX

Professional Grade Dry Wash & Wax. Designed to clean and provide short-term, high gloss protection for vehicle finishes – all in one step! As you wipe the dirt away, Xtreme Finish will leave a bright, glossy shine.

16 oz. ..... P/N 09-03840 ..... ---
1 Gallon ..... P/N 09-03841 ..... ---
5 Gallon ..... P/N 09-03842 ..... ---

5 STAR FOAM MULTI PURPOSE CLEANER

Use on interior smudge marks, nicotine stains, oily fingerprints and food stains. On exteriors, will effectively clean carbon exhaust, oil and bugs. Can also be used on vinyl, leatherette, plastic, sinks, enameled, varnished and similar surfaces. ..... P/N 09-03843 ..... ---

A-PLEX PLEXIGLAS CLEANER

A-Plex is an anti-static aircraft and marine Plexiglas cleaner, protectant and polish. A-Plex produces a microscopic, high luster, soil retarding, water repellant finish. A-Plex dries with no smears, no smudges and no oily residue. Can be applied in seconds.

19 oz. aerosol. ..... P/N 09-03844 ..... ---

SKYWASH COCKPIT CLEANER

Aircraft Cockpit Cleaner with disinfection - environmentally safe biodegradable. For cleaning aircraft interiors and fuel tanks. Safe on vertical or overhead surfaces, non - flammable, no flash point, pleasant odor, vapors non toxic. Safe on aluminium, high strength steel, magnesium and other metals, plexiglass, most plastics and good quality of paint, retards corrosion of aluminium and magnesium structures. Controls odor, is lavender scented.

1 Gallon ..... P/N 09-03855 ..... ---
5 Gallon ..... P/N 09-30856 ..... ---

SKYWASH WINDOW CLEANER

Environmentally safe. Aircraft Window Cleaner with disinfection – biodegradable. A clear liquid solution for cleaning acrylic and glass windows. Free rinsing and fast drying without streaking. Safe on acrylic and glass.

16 oz. ..... P/N 09-03851 ..... ---
1 Gallon ..... P/N 09-03852 ..... ---
5 Gallon ..... P/N 09-03853 ..... ---

SKYWASH CABIN CLEANER

Aircraft Cockpit Cleaner with disinfection - environmentally safe biodegradable. Multifunctional water-soluble effective special cleaner, deodorant and disinfection product for cleaning aircraft interiors and fuel tanks. Safe on vertical or overhead surfaces, non - flammable, no flash point, pleasant odor, vapors non toxic. Safe on aluminium, high strength steel, magnesium and other metals, plexiglass, most plastics and good quality of paint, retards corrosion of aluminium and magnesium structures. Controls odor, is lavender scented.

16 oz. ..... P/N 09-03848 ..... ---
1 Gallon ..... P/N 09-03849 ..... ---
5 Gallon ..... P/N 09-03850 ..... ---

SKYWASH LEATHER CLEANER

Environmentally safe, biodegradable - non-flammable, solvent free. Cleans and maintains in one step. Removes things like coffee, cocoa, tea, fruit juices, tomato juice, Coca Cola, wine, sparkling wine, beer, Cognac, pen, environmental dirt etc. Leather surfaces remain natural.

16 oz. ..... P/N 09-03863 ..... ---
1 Gallon ..... P/N 09-03864 ..... ---
5 Gallon ..... P/N 09-03865 ..... ---

SKYWASH POLISH & SEALANT

Can be used on all surfaces painted or unpainted, cleans, gently protects, and conserves at the same time. Particularly well on aluminum and chromium plated surfaces. Protects long term against harsh environment, salt, acid rain, other pollutants, UV-rays and oxidation. ..... 1 Gallon ..... P/N 09-03861 ..... ---
5 Gallon ..... P/N 09-03862 ..... ---

BUGSLIDE® CLEANER POLISH & BUG REMOVER

BugSlide® is a complete waterless detailer that cleans, shines and degreases while removing bugs and other surface contaminants with ease. No water needed. No n-abrasive and free of wax, petroleum products, silicone, Teflon, solvents or harsh chemicals. Contains UV protectants. Won't yellow and safe to use in direct sunlight. Remove Bugs and Debris on Exteriors: Windshields • Propellers • Leading Edges Tail Fins & Landing Gear. Cleans and Polishes Interiors: Instrument Panels • Control Wheels • Windows • GPS Screens • Leather Seats • Doors Latches.

Cleaner Polish & Bug Remover.. P/N 09-04723 ..... ---
32 oz. Refill ..... P/N 09-04724 ..... ---

BUGSLIDE® PLUSH MICROFIBER CLOTH

BugSlide® Plush Microfiber Cloths with 350 thread count, you can rest assured this cloth will treat your plane nice. When using with BugSlide Cleaner Polish: Remove Bugs and Debris on Exteriors: Windshields • Propellers • Leading Edges Tail Fins & Landing Gear as well as Cleans and Polishes Interiors: Instrument Panels • Control Wheels • Windows • GPS Screens • Leather Seats • Doors Latches.

14x14 Microfiber Cloth ..... P/N 09-04727 ..... ---

BUGSLIDE®X-TREME CLEAN MESH MICROFIBER CLOTH

BugSlide® X-Treme Clean Microfiber Cloth for the areas that need a little X-Treme clean.

P/N 09-04725 ..... ---

CS

ROLITE ALUMINUM POLISH

Cleans, Polishes and Protects – Produces a brilliant shine on all aluminum and bare metal surfaces.
P/N 09-04782 ..... ---

ROLITE FIBERGLASS POLISH

Cleans, Reconditions and Protects – Produces a brilliant shine on all fiberglass and clearcoat surfaces. Gently removes water spots, staining, oxidation, and hairline scratches from acrylic and polycarbonate surfaces. Also used as an excellent metal polish for brass, copper, bronze, platinum, aluminum, stainless steel, chrome, gold, nickel, and a deoxidizer of painted surfaces. Rolite Fiberglass Polish restores a brilliant shine to the finish – and there's no need to wax over it.....P/N 09-04783 ..... ---

ROLITE METAL AND FIBERGLASS POLISH

Rolite Metal and Fiberglass Polish will restore the original brilliance of virtually any metal surface, as well as being ideal for fiberglass and plexiglass parts. Rolite products are preferred by many EAA members maintaining bare aluminum aircraft as well as by commercial airlines and prop shops worldwide. Will create a mirror-like shine like you have never seen. Recommended for maintaining brilliant propellers and spinners.
1 Lb. Can.....P/N 09-42555 ..... ---
2 Lb. Can.....P/N 09-42560 ..... ---

ROLITE SUPRA 90 ALUMINUM POLISH

Researched and developed for the commercial aircraft industry. This precision polish is widely used by many domestic airlines. Manufactured to meet all Boeing and McDonnell Douglas Specifications (Boeing D6-17486; CSD-1, Type 1 &V). Supra 90 will give you a mirror-like shine on your metal surface that was never before believed possible!
4.5 ounce Can..... P/N 09-04823 ..... ---
1 Lb. Can..... P/N 09-04824 ..... ---
2 Lb. Can..... P/N 09-42420 ..... ---

CS

ROLITE PREMIUM POLISH AND SEALANT

A World-Class, One-Step Product. Silicone and wax free, easy-to-use, one-step cleaner, polish, and sealant. This product produces a lasting, brilliant shine never believed possible. It is uniquely formulated with polymers to level the surface, seal in the shine, and protect the painted finish from UV rays, calcium, salt, and other pollutants. Safe for all painted surfaces, including clear coat. It is superb on non-porous materials like fiberglass, plastic, and stainless steel. Because it is formulated for aviation, it is a step above any off-the-shelf product available for autos, trucks, RVs, motorcycles, off-road vehicles, boats, and watercraft . P/N 09-00385 ..... ---

ROLITE VINYL AND LEATHER CLEANER

"The Sun Protector". Protect your aircraft interior by using Rolites' maximum sun block formula. Contains no solvents, silicone oils, or petroleum distillates. Its anti-static formula will produce a shine on your vinyl or leather seats without being slippery or tacky. And will actually repel dust! Comes in spray pump bottle. 8 oz. Bottle .....P/N 09-42435 .....

SEE OUR WEBSITE FOR MORE ROLITE PRODUCTS.

WASHWAX WATERLESS WASH WAX MOP KITS

The Wash Wax Mop not only saves time and water, but it also saves on cleaning products. The Wash Wax Mop was designed specifically to increase the efficiency of Wash Wax ALL. That's why our customers have reported a 30-40% reduction in Wash Wax ALL used over the traditional method of waterless hand application. Features a system that pivots, swivels, adjusts, and locks.
Specifically designed to waterless Wash & Wax vehicles. The only mop with two sides, One WET, and one DRY.
Standard.....P/N 09-06175 ..... ---
Standard + Big Scrubber.....P/N 09-06173 ..... ---

NEWSTAX AIRCRAFT EXHAUST POLISHING KIT

Restores polished aircraft exhaust stacks to a flawless mirror finish, fast! Specifically developed to allow anyone to achieve a professional grade finish without the high cost or downtime associated with sending the exhaust stacks to the manufacturer for polishing. 2 step nonabrasive process. This complete kit contains everything needed to revitalize and polish 4 exhaust stacks. P/N 09-04024 ..... ---

PLAS-TEC® ACRYLIC SHEET/PLASTIC CLEANER

Plas-Tec® cleans, shines, and protects today's high-tech plastics. Plas-Tec® is a non-aggressive, optically clear cleaner that lifts fingerprints and smudges, leaving a protective, anti-static coating that resists dirt build-up. Plas-Tec® is excellent for use on acrylic, Lexan, or Plexiglass windshields and windows as well as aircraft instrument panels, and many other applications.
4 oz. Can .....P/N 09-00308 ..... ---
16 oz. Can .....P/N 09-00309 ..... ---
1Gal. Can.....P/N 09-00310 ..... ---

REJEX SOIL BARRIER AND STAIN PROTECTOR

RejeX™ is an advanced polymer system that seals painted surfaces to guard against corrosive exhaust gas, oil, and bug stains. It forms a slick, long-lasting, glass-like barrier that allows easy removal of turbine and piston-engine exhaust stains with mild detergents. Bugs can be removed quickly and easily with just a stream of plain water. On paint in good condition, RejeX eliminates the need for waxes and polishes, and one application will last a minimum of 4 months. Surfaces to be protected should be clean, dry, and cool to the touch and the product should not be applied in direct sunlight. Damaging contaminants, such as bug acids and exhaust stains will no longer be a problem. High Gloss Finish. **PRODUCT NOT FOR SALE OR USE IN THE STATE OF CALIFORNIA**
12oz. Can.....P/N 09-01729 ..... ---
16 oz. Can .....P/N 09-00303 ..... ---
1 gal. Can .....P/N 09-00924 ..... ---

SALTS GONE AVIATION FORMULA SALT REMOVER AND PROTECTANT

Elevate aircraft maintenance with the Salts Gone® Aviation Formula 32oz Hose End Sprayer. Tailored specifically for the aviation industry, this sprayer is your ally in preserving the integrity and appearance of your aircraft. Connect it directly to your garden hose for a seamlessly proportioned spray that covers efficiently and effectively—eliminating the guesswork and ensuring consistent, top-notch results every single use.
Pro Tip: For those challenging-to-reach areas, remove the straw from the blue nozzle. This adjustment allows you to invert the bottle completely, extending your reach and enhancing your cleaning capabilities.
Reminder: For optimal performance, refill only with Salts Gone® Aviation Formula concentrate. Pre-dilution can affect the effectiveness of the solution.
Salts Gone Aviation Hose End Sprayer.....P/N 09-06370 ..... ---
Salts Gone Aviation Gallon .....P/N 09-06371 ..... ---
Salts Gone Aviation 5 Gallon Pail.....P/N 09-06372 ..... ---
Salts Gone Aviation 55 Gallon Drum .....P/N 09-06373 ..... ---
Salts Gone Aviation 275 Gallon Tote.....P/N 09-06374 ..... ---

WASHWAX WATERLESS MOP WITH FIBERGLASS POLE

• Waterless Wash Wax Mop head with 2 microfiber mop pads installed on the mop head. • Fiberglass Pole that extends from 4' 2" to 7' 8".
P/N 09-06174 ..... ---

SPRAYWAY PRECISION CONTACT CLEANER

This precision cleaning product prevents corrosion by displacing moisture. Helps prevent electrical malfunctions caused by water penetration, humidity and condensation. Ideal for applications where lower flash point and higher evaporating solvents may be used. Non-staining. Non-corrosive. Safe for food packaging and processing equipment. Quick drying. Leaves no residue. Safe on most plastics. Effectively removes soil & other contaminants from electronic components. ..... P/N 09-04716..... ---

SPRAYWAY FAST TACK 55 FOAM AND FABRIC ADHESIVE

Effectively bonds fabric to foam, metal, or wood surfaces, and to itself. Bonds urethane and latex-type foams to themselves in butt-splicing, knife edging, laminating, boxing, and edge turning operations as well as to metal, rigid plastic, and wood surfaces. Offers quick tack and high coverage, while providing a strong bond. It does not darken, nor does it leave a residual odor. Not recommended for bonding vinyl.

P/N 09-04707 ..... ---

SPRAYWAY FAST TACK 92 HI TEMP TRIM ADHESIVE

Formulated for the automotive professional. Easily bonds heavier-weight materials to metals, woods, and plastics. For high-temperature, heavy-duty bonding of vinyl tops, headliners, and hood silencer pads. Excellent heat and water resistance; has longest bonding range; allows repositioning during assembly ..... P/N 09-04709..... ---

SPRAYWAY C-60 SOLVENT DEGREASER

Removes oil and grease stains, ink, and fresh paints easily. Very effective for cleaning oily and greasy parts while servicing, repairing, or replacing them. Can be used on metal parts prior to painting or soldering. Will not short motors, generators, compressors, condensers, or other electrical equipment .....P/N 09-04710 ..... ---

SPRAYWAY BIO ENZYMATIC CARPET AND UPHOLSTERY CLEANER

Fast-acting enzymes safely remove stubborn stains & odor-causing organic matter. Inverted spray with foaming action penetrates deep into carpet and upholstery fibers. Attacks spots, stains and odors in two ways: First, by a new unique chemical system that dissolves and suspends the embedded foreign matter. Second, by enzyme-generating bacteria that breaks down organic residues thereby eliminating stains and odors. Effective on spots caused by coffee, milk, wine and other mishaps..... P/N 09-04712..... ---

SPRAYWAY ORANGE POWER PLUS HEAVY DUTY DEGREASER

Heavy duty, non-chlorinated degreaser. Effective for removal of grease, oil, ink, adhesive, tar, wax, exhaust fume residue, resins and certain graffiti. Use to replace products containing acetone, trichloroethylne, butyl cellosolve and other chlorinated solvents .....P/N 09-04713 ..... ---

SPRAYWAY VINYL AND LEATHER CLEANER

Perfect for automotive, furniture and upholstery professionals. Cleans, protects, and restores leather upholstery and vinyl tops to “like new” appearance. Leaves a finished touch of elegance - contains oil of mink. Easily removes stains, smudges, fingerprints, salt and dirt. Ideal for use on naugahyde, vinyl and leather.....P/N 09-04714 ..... ---

ECT R-MC TURBINE ENGINE COMPRESSOR CLEANER

R-MC Compressor Cleaner is an environmentally safe concept in gas path cleaning of gas turbines. R-MC is biodegradable, nontoxic and non flammable. It is an amine based formula for gas path cleaning of jet engines in power recovery or crankwash applications with higher temperature stability than any other commercially available alternative. Formulated with a specialty corrosion inhibitor package for aviation use.

• Meets MIL-C-85704

• Conforms to engine OEM specifications including GE, P&W, Rolls-Royce, Boeing.

Description	Size	Part Number	Price
Ready to Use	5 Gallons	09-05658	---
Ready to Use	30 Gallons	09-05659	---
Concentrate 4:1	1 Gallon	09-05804	---
Concentrate 4:1	5 Gallons	09-05706	---
Concentrate 4:1	30 Gallons	09-05707	---
Concentrate 6:1	1 Gallon	09-05656	---
Concentrate 6:1	5 Gallons	09-05657	---
Concentrate 6:1	30 Gallons	09-05661	---

ECT HFC-423 HANGAR FLOOR CLEANER

Designed for use with all Hangar Floor surfaces, the ECT-Hangar Floor Cleaner is a highly concentrated low foam floor cleaner, effective to remove difficult soils associated with aircraft hangars. Can also be used for all other routine cleaning.

ECT-Hangar Floor Cleaner is a cleaner-concentrate and can be diluted 1 oz per gallon of water(1:128) for everyday cleaning. Use 4oz per gallon of water for heavily soiled areas(1:32) or neat for spot treating. ECT-Hangar Floor Cleaner can be used with all conventional cleaning methods, including, automatic floor scrubbing, mop & bucket and pressure washing.

1 Gallon .....P/N 09-06176 ..... ---
5 Gallon .....P/N 09-06177 ..... ---
55 Gallon .....P/N 09-06178 ..... ---

AP AIRCRAFT METAL POLISH 5 STEP SERIES

The AP Series is a 5-step system of professional aircraft metal polishing products – ideal for aluminum and bare metal surfaces. These 5 easy steps range in coarseness: Extra Coarse, Coarse, Medium, Fine and Ultra Fine. To achieve the ultimate shine, apply these specially formulated aircraft metal polishing products together in sequence to discover a synergistic effect in both the depth and clarity. The beauty builds from one application to the next, producing luster and long-lasting protection that cannot be beat, validated by gloss meter results. Discover a new class of superior quality aircraft polishing perfection with the AP Series 5-step system!

Description	Part No.	Price
AP100 Aircraft Metal Polish - Extra Coarse 4.5 Oz.	09-04796	---
AP100 Aircraft Metal Polish - Extra Coarse 1 Lb.	09-04795	---
AP100 Aircraft Metal Polish - Extra Coarse 2 Lb.	09-04797	---
AP200 Aircraft Metal Polish - Coarse 4.5 Oz.	09-04798	---
AP200 Aircraft Metal Polish - Coarse 1 Lb.	09-04799	---
AP200 Aircraft Metal Polish - Coarse 2 Lb.	09-04801	---
AP300 Aircraft Metal Polish - Medium 4.5 Oz.	09-04802	---
AP300 Aircraft Metal Polish - Medium 1 Lb.	09-04803	---
AP300 Aircraft Metal Polish - Medium 2 Lb.	09-04804	---
AP400 Aircraft Metal Polish - Fine 4.5 Oz.	09-04805	---
AP400 Aircraft Metal Polish - Fine 1 Lb.	09-04806	---
AP400 Aircraft Metal Polish - Fine 2 Lb.	09-04807	---
AP500 Aircraft Metal Polish - Ultra Fine 4.5 Oz.	09-04808	---
AP500 Aircraft Metal Polish - Ultra Fine 1 Lb.	09-04809	---
AP500 Aircraft Metal Polish - Ultra Fine 2 Lb.	09-04810	---

PLEXIGLASS CLEANERS & POLISHES

NOVUS PLASTIC POLISH #1 CLEANS & PROTECTS

Novus Plastic Polish #1 gently cleans all plastics without scratching and leaves a lustrous shine that resists fogging, repels dust, and eliminates static. Leaves a shield that resists fingerprints and smudging, and is nontoxic and free of strong odors. Contains no abrasives or harsh chemicals.

8 oz.....P/N 09-38110 ..... ---
64 oz.....P/N 09-38115 ..... ---

NOVUS PLASTIC POLISH #2 RESTORES & REFINISHES

Novus Plastic Polish #2 removes fine scratches, haziness, and abrasions from most plastics. With repeated use, it will restore faded and discolored plastics. Contains mild abrasives, but is non-toxic and has no strong odor. Creates a deep shine which resists scratching, marking, and aging.

8 oz.....P/N 09-38120 ..... ---
64 oz.....P/N 09-38125 ..... ---

NOVUS PLASTIC POLISH #3

Novus No. 3 removes heavy scratches and abrasions from most acrylic surfaces. This is an aggressive polish and is not intended for use on coated plastics or polycarbonates. Requires both Novus No. 1 and No. 2 polishes for final finishing.

8 oz.....P/N 09-38130 ..... ---
64 oz.....P/N 09-02397 ..... ---

SCRATCH OFF WINDSHIELD REPAIR KIT

Developed by an A&P and manufactured since 1993, Scratch Off has become the leading Plexiglas and Lexan restoration system worldwide and is guaranteed, when used as directed, to permanently improve the clarity of aircraft windows and windshields. Scratch-Off is being used worldwide and highly recommended by airframers, aircraft window/windshield manufactures and enthusiasts to restore optical clarity back to aircraft windshields and windows. The 8 panel instruction booklet walks you through a step by step process on how to determine where to start the process as all four steps are not always needed.

Standard Kit.....P/N 09-42600 ..... ---
Deluxe Kit.....P/N 09-00252 ..... ---

Please see our website for a complete list of all kit details.

UNIGRIT™ SANDING PRODUCTS

Unigrit™ Finishing Papers & Sanding Blocks use precise, uniform grit particles to eliminate deep sanding scratches and the need for compounds. More economical to use because they work faster, last longer and won't load up as quickly as conventional sanding products.

FINISHING PAPERS				SANDING BLOCKS			
Grit	Sheet Size (in)	Part No.	Price Each	Grit	Block Size (mm)	Part No.	Price Each
1000	5.5x9	09-23580	---	1000	60x30x20	09-23640	---
1200	5.5x9	09-23590	---	1500	60x30x20	09-23650	---
1500	5.5x9	09-23610	---	2000	60x30x20	09-23660	---
2000	5.5x9	09-23620	---				

PLEXUS® AIRCRAFT PLASTIC CLEANER, PROTECTANT & POLISH

Plexus®™ was developed for use in aviation, specifically for cleaning and protecting aircraft windshields and painted surfaces. It's quite simply the most effective product you can buy for cleaning, polishing and protecting all clear and colored plastics and painted surfaces. Plexus® is easier to use, and leaves a noticeably cleaner, more lustrous finish than conventional polishes. It protects by actually sealing the pores in plastic making it more resistant to debris, oil, bugs or scratches. Because it's anti-static, it repels dust and lint.

7 Oz. Can .....P/N 09-29715 ..... ---
Case of 12 7 oz. Cans .....P/N 09-29715-1 ..... ---
13 Oz. Can .....P/N 09-29710 ..... ---
Case of 12 13 oz. Cans .....P/N 09-29710-1 ..... ---

AEROPLEX AEROGUARD ACRYLIC & PLASTIC CLEANER

AeroGuard is the ultimate solution to clean, polish, and protect clear and colored plastics and acrylics, expertly designed for demanding applications in aviation, automotive, and other high-performance industries. Leaves a protective, anti-static coating that repels dust, resists fog, and provides water-repellant protection, keeping surfaces clearer for longer. Reduces imperfections while enhancing clarity and shine. Ideal for aircraft windows and instrumentation, automotive components, industrial safety glasses, outdoor gear, and more

16 Oz. Can .....P/N 09-06429 ..... ---
Case of 12 16 oz. Cans .....P/N 09-06429-1 ..... ---

NO FILM GLASS CLEANER

Excellent cleaning and polishing glass, mirrors, windshields and windows. This easy-to use, fast acting product uses a clinging foam to break up soils and hold them - even on vertical surfaces. There is no dripping, no running and no streaking. With an exclusive formulation using denatured alcohol and no ammonia, this product cleans thoroughly, dries quickly, requires no rinsing and leaves a pleasant, fresh aroma. Product is best on glass not plexiglass.

20 oz. aerosol .....P/N 09-04696 ..... ---

LP AERO'S ACRYLIC POLISH SEALANT FOR AIRCRAFT WINDSHIELDS

A superior no-wax, non-yellowing formula containing polyethylene polymers. This product not only gives a super slick surface to your windshield and windows, but can also be used on your entire aircraft, including all the painted gloss surfaces, aluminum & fiberglass. Ease of application and removal is unmatched.

Sold in 16 oz. bottles .....P/N 09-42055 ..... ---

SPRAYWAY #848 PLASTIC CLEANER

Sprayway plastic cleaner contains no chemicals or abrasives that will cause damage to transparent surfaces. This formula is anti-static, anti-fog, fast-drying, non-streaking, and it reduces glare. It also repels finger smudges, dirt, and dust. Great for use on acrylics, plexiglass, lexan, glass, and polycarbonates. No. 848 meets the following military and commercial specifications: • MIL P5425 • MIL P25690A • Douglas Aircraft CSD-1 • ANSI/ASTM F484-77 • Boeing Letter-Lexan 9600. Product is free of ozone-depleting chlorofluorocarbons (CFC's).....P/N 09-42060 ..... ---

PLEXI-CLEAR ACRYLIC CLEANER

Plexi-Clear is an anti-static aircraft plexiglass cleaner, protectant, and polish. Plexi-Clear produces a microscopic, high luster, soil retarding and water repellent finish to all aircraft plexiglass and plastic and makes small scratches less visible,leaving a surface that is fresh, lustrous, and protected. Plexi-Clear dries perfectly with no smears, no scratches, no smudges, no oily, tacky or sticky residue.Plexi-Clear can be applied in seconds, in one easy step. Boeing and MIL spec Approved.....P/N 09-37960 ..... **--- ea.**

WINBRIGHT PLASTIC CLEANER

WinBRIGHT is safe to use on any polycarbonate, acrylic, or plexiglass window. Developed for aircraft transparencies, but perfect for any plastic surface: Aircraft, Motorcycle Windscreens, Boats, Aquariums, Convertible Windows, Instrument Panels, Bimini Tops, Safety Glasses, RVs, CDs This professional strength spray with Micro-Brighteners leaves surfaces sparkling clear and clean. Removes, dust, dirt, stains, smudges and finger prints. Optical clarity improves with extended use. Clean surface with water first, then simply spray WinBRITE onto a dampened flannel cloth and polish into the surface of the window until polish disappears. Contains no wax, solvents or ammonia and leaves no residue or build-up.

8oz. Spray.....P/N 09-02079 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FW1 AIR & SEA CLEANING WAX

AIR&SEA Formula uses a proprietary combination of lubricants, cleaning agents, and carnauba wax to lubricate and lift dirt and grime leaving nothing behind. Reduce drag, save fuel, increase speed clean and protect your aircraft and watercraft from the elements. AIR&SEA requires no water and can be used on any non-porous surface.

P/N 09-04744 ..... ---

THOR AERO BRUSH

This a 10" foam block that is completely filled with a one threaded green nylon. This brush will effectively remove oil, grease, exhaust fumes, and other oily residues. 60" length metal handle not included, order separately.

Thor Aero Brush.....P/N 09-00897 ..... ---
Handle For Brush ....P/N 09-02097 ..... ---

KPC PRODUCTS, CLEANERS AND PRESERVATIVES

WINDSHIELD SPEED CLEANER & POLISH

KPC Windshield Shield Speed Cleaner & Polish for Transparent Plastic Aircraft Materials. Meets U.S.A. Military Requirements MIL-C-18767A (ASG). This product is non-static, non-glaring, and abrasive free, will help prevent hazing and discoloration of clear plastic materials. Can be used in arid, humid, rain or sunny conditions. Recommended for: plastic windows, windshields, windscreens, and instrument faces, AS-2 safety glass, plexiglas, lexan and mylar, formica and other structural plastics. Safe, quick, easy to use.

12 oz.....P/N 09-00544 ..... ---
1 gal.....P/N 09-00545 ..... ---

KPC VINYL COATED CLEANER AND PRESERVATIVE

KPC Vinyl Cleaner and Preservative is a neutral biodegradable spray on - wipe off chemical. The finest chemical available for cleaning and preserving your breathable or solid vinyl, deep grained vinyls, pearlized vinyl, hercolyn, leatherette, naugahyde, or any synthetic fabric. No abrasives, residue, coating, or discoloration. KPC Vinyl Cleaner will not damage cloth, rugs, chrome, painted walls or any of the threads or seals that hold the vinyls together, or any backing of breathable vinyl as used on some of the imported cars. Leaves article soft and pliable.

12 oz.....P/N 09-00542 ..... ---

KPC LEATHER CLEANER & PRESERVATIVE

A Premium Cleaner and Preservative Formulated Specifically for Leather. Cleans With a Saddle Soap Base and Preserves With Pure Neatsfoot Oil. Leaves no Oily Residue on the Treated Item. Leather Appearance Stays Natural. Can be Used on All Leather Goods Such as Aircraft and Automobile Interiors, Motorcycle Saddlebags, Baseball and Softball Gloves, Equestrian Saddles and Tack, Briefcases, Handbags and Holsters. Helps Prevent Mildew From Forming on Treated Items.

Easy To Use: Apply Directly to Leather Article to be Cleaned or to Cotton Cleaning Cloth and Wipe. Use Cotton Terry Scrubbing Cloth, Terry Scrubbing Pad or Soft Bristled Brush to Work Chemical into Heavily Soiled Areas or Grain and Shaping. Note: This Product is Not a Vinyl Cleaner. For Cleaning Vinyl Products use KPC Vinyl Cleaner.

4 oz.....P/N 09-00550 ..... ---

KOENIG POLISH® CARNAUBA CLEANER WAX

Koenig Spray Polish® is a water based carnauba cleaner wax and has multiple benefits for your home and garage! Koenig Spray Polish is specifically designed for all the surfaces of your car, kitchen and bathroom . Water, pure Carnauba wax, coconut oil and clay bar are the 4 main ingredients that work together to clean, shine, restore and protect your most expensive assets. The nanosized carnauba wax particles fill in the microscopic pores in the surface. This technology creates a new surface that is now repellent to water, spots, stains, bugs, dirt and damaging UV sunlight for 6-12 months depending on conditions. P/N 09-06445 ..... ---

ODIES OIL UNIVERSAL FINISH & POLISH

Odie's Universal Oil (OUO) is a revolutionary true hardwax oil finish that was originally developed for wood but is so versatile it can be used on almost anything! Food safe, solvent free and non toxic, containing no added driers, heavy metals or part 2 catalyst. Odie's Universal Oil protects, stabilizes, beautifies, waterproofs and enhances any surface easily, safely and naturally. Provides a lustrous sheen in one coat! Will never peel, flake, chip, delaminate, wrinkle or leave unsightly white scratch marks or cracks!

9 oz.....P/N 09-06360 ..... ---
32 oz.....P/N 09-06361 ..... ---

ECT AIR CARE HAND SANITIZER

ECT Air Care Hand Sanitizer is Effective at killing most common germs on hands that may make you sick in seconds, and meets FDA guidelines for a 99.99% germ kill! ECT's alcohol based hand sanitizer also contains Benzalkonium Chloride (BZK, or BAC), a quaternary germicide, which is the primary ingredient in non-alcohol based hand sanitizers. ECT's formulation will allow for longer lasting protection in addition to all the traditional protection received from alcohol based hand sanitizers! Effective at killing most common germs on hands that may make you sick in seconds, and meets FDA guidelines for a 99.99% germ kill!

Features: • Protects Against Bacteria, Viruses, and Fungi • Pseudomonas aeruginosa • MRSAs • VREs • HIV • Hepatitis B Virus • Influenza Virus • Measles Virus • SARS • and more!

16 oz - Case of 4 .....P/N 09-05750 ..... ---
32 oz - Case of 4 .....P/N 09-05751 ..... ---
Gallon .....P/N 09-05752 ..... ---
5 Gallons .....P/N 09-05753 ..... ---

ECT PROIXTANE® AHC DISINFECTANT

Liquid Disinfectant. One-Scoop cleaner disinfectant for industrial/institutional facilities/farm use only. Effective against a broad range of bacteria, viruses, and fungi. Product works by generating free oxygen which attacks proteins. There is no known antimicrobial resistance to peracetice acid .....P/N 09-05754 ..... ---

HAND SANITIZER - CLEAR GEL

Hand Sanitizer - Clear Gel - 32 oz.

Specifications: • Container: Bottle, screw top • Active Ingredient: Ethyl Alcohol • Concentration: 65%

Features: • For use when you don't have ready access to soap and water • Helps prevent the spread of infectious diseases • Can be used anytime and anywhere

P/N 05-26512 ..... ---

CORROSION X - ADVANCED HAND SANITIZER

Corrosion X Advanced Hand Sanitizer alcohol antiseptic 70% topical solution. Antibacterial hand sanitizer to help reduce bacteria that potentially can cause disease. Manufactured according to Center for Disease Control (CDC) guidance. **Specifications**: • Alcohol Antiseptic: 70% Topical Solution • Product: Antibacterial Hand Sanitizer.

P/N 09-05726 ..... ---

HYDROX INSTANT GEL HAND SANITIZER WITH ALOE

Instant Gel Hand Sanitizer to help reduce bacteria on the skin that could cause disease - kills 99.9% of germs!

Specifications:
• Brand: Hydrox
• Size: 4 oz or Gallon
• Consistency: Gel
• Container: Bottle, flip cap
• Active Ingredient: Ethyl Alcohol
• Concentration: 70%.....P/N 05-22971 ..... ---

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PLANE PERFECT CLEAR COAT SI14 CERAMIC FINISHING SPRAY

Clear Coat is a revolutionary hydrophobic ceramic spray safe for ANY hard surface. Boasting 12 months of protection per application, multiple uses per bottle and RELOAD refills when you need more, Clear Coat is your choice for superior UV protection, hydrophobic shine and protection for EVERY vehicle! If you have a polished airplane Clear Coat will help KEEP it polished by repelling water (spots) and other harmful dirt and debris. Use this on your automobile, collector car, truck, boat or RV to keep the surface looking BRAND NEW! Use a microfiber towel to wipe down your car's dashboard and GPS screen - repels fingerprints and dust. Clear Coat is an absolute game changer!.....P/N 09-05879 ..... ---

PLANE PERFECT 1 ONE BOTTLE SOLUTION - SIO2 CERAMIC CLEANER AND DETAILER

Plane Perfect 1 is the newest and most exciting formula! A one bottle cleaning and detailing solution, 1 is comprised of a unique SiO2 surfactant free emulsion of cross linking polymers and special additives to quickly and effectively clean, shine and protect paintwork, glass, plastics and rubber moldings as well as a variety of other surfaces. 1 is specially formulated to be surfactant free, leaving only the active ingredients behind after drying. This allows the surface being treated to feel hyper slick, be hydrophobic and highly detergent resistant as compared to other polymer type sealants. 1 will leave treated surfaces protected for months instead of days! Engineered for high UV index applications - this aviation grade ceramic will become your favorite on every vehicle in your household!

16 Ounces .....P/N 09-05877 ..... ---
1 Gallon .....P/N 09-05878 ..... ---

PLANE PERFECT PERFECT SEAL AND PROTECT - AVIATION GRADE SEALANT

Perfect Seal and Protect is a high-grade polymer sealant that has been specifically developed to provide maximum UV protection and high gloss shine on composite, fabric and metal aircraft, cars and RVs. Perfect Seal and Protect is a 12-month application and produces stunning shine and durability by reducing (and preventing) oxidation and dullness. Plane Perfect has had excellent results on many different surfaces (metal, fabric, composite, clear coat).....P/N 09-05880 ..... ---

PLANE PERFECT EYES OUTSIDE - PLASTIC CLEANER AND POLISH

Eyes Outside is a revolutionary plastic cleaner and polish that has multiple uses. After watching pilots use other decades-old formulations we realized that we could do better. The soft plastics used on aircraft, motorcycles and boats are some of the most critical pieces and should be worshiped, not just wiped down. Eyes Outside is safe to use with plastics (including plexiglass, acrylic, acrylite, lucite and lexan), glass, or hard shiny surfaces (including COVID barriers). Its anti-static, fingerprint resistant and polishing properties are great for LCD screens, radio displays, glass cockpits, GPS, instrument gauges, convertible top windows, tinted windows, eye glasses, stainless steel (like your fridge), panel covers, yokes, motorcycle helmets, visors, ski goggles, dash clusters, cup holders, door pockets or any sensitive hard shiny surface (even grand pianos)!

16 Ounces .....P/N 09-05865 ..... ---
1 Gallon .....P/N 09-05866 ..... ---

PLANE PERFECT WING WIPE - EVERY DAY DETAIL SPRAY WITH SEALANT

Wing Wipe is an all around detail spray and light sealant that's great for every day use. It produces a high gloss shine and protects against the harmful effects of UV rays that all vehicles are exposed to. Wing Wipe is designed to remove fingerprints, dust, light grime and bugs while providing a high gloss shine teamed with the protection of a nano spec sealant. Wing Wipe's amazing formula is safe to use on any exterior surface, including painted and coated composites, metal, gelcoat, plastics and fabric/dope aircraft. Wing Wipe also works GREAT on cars, boats, RVs and Motorcycles! The more you use Wing Wipe, the more protection you get and the better it performs! Further, if you're using Buddha Belly, you'll find that following it with Wing Wipe produces even better results.

16 Ounces .....P/N 09-05867 ..... ---
1 Gallon .....P/N 09-05868 ..... ---

PLANE PERFECT INTERIOR CLEANER - ODORLESS INTERIOR CLEANER

Interior Cleaner is the perfect colorless and odorless product to remove dirt, soil, stains, skids and markings from almost any surface. Interior Cleaner is specifically formulated to provide optimum cleaning results for all leather, vinyl, cloth, carpet or hard surface stains. It can be used with a light brush for tough stains or carpet cleaning and makes hard to remove stains vanish instantly. It even works on walls if the kids color on them (ask us how we know)! If using on leather make sure to follow with Perfect Leather to nourish and shine those hides!

16 Ounces .....P/N 09-05875 ..... ---
1 Gallon .....P/N 09-05876 ..... ---

iCLOTH® AVIONICS WIPES

Specifically engineered for flight deck displays, IFE screens, touchscreen tablets and handheld devices as well as all types of eyewear. Its proprietary cleaning solution easily removes lint, dirt, electrostatic dust, fingerprints etc., and cleans safely and without abrasiveness. The anti-static properties help prevent build-up of lint and dust. iCloth® Avionics does NOT contain damaging NPEs, ethyl alcohol, silicone or ammonia. The liquid formula meets or exceeds required OEM cleaning specs for optical surfaces made by Honeywell Aerospace, Thales Avionics, Rockwell Collins, B F Goodrich Aerospace, and others, and is currently being used on aircraft manufactured by Airbus, Boeing, Embraer and Bombardier.

Pack of 10.....P/N 09-04590-10 ..... ---
Pack of 100.....P/N 09-04590 ..... ---

ICLOTH 70% ISOPROPYL ALCOHOL CLEANING WIPES

70% Isopropyl Alcohol Formula: the concentration recommended by the CDC to sanitize electronic devices and other non-porous surfaces. Exceptionally strong, soft and lint-free cloth with aerospace certifications that will ensure effective dirt pick-up. Individually packaged to keep each wipe perfectly moist and hygienic until the moment of use.

Box of 50 .....P/N 09-06232 ..... ---
Box of 100 .....P/N 09-06235 ..... ---
Box of 500 .....P/N 09-06233 ..... ---

ICLOTH 70% ISOPROPYL ALCOHOL XL CLEANING WIPES

Cleaning wipes for use on monitors, touchscreens, whiteboards, LCD / LED / OLED TV screens, windows and glass doors, windscreens, and other extra-large surfaces. Safe for use on all screens, electronics, glasses, and coatings. Wipes are non-streaking and individually wrapped..... P/N 09-06234 ..... ---

ICLOTH AVIONICS LARGE SCREEN AND LENS CLEANER

Cleaning wipes for use on laptops, Chromebooks, touchscreen monitors, flat panel displays, automotive displays, aviation displays, and more. Safe for use on all screens, electronics, glasses, and coatings. Wipes are non-streaking and individually wrapped.

Box of 24.....P/N 09-06226 ..... ---
Box of 500.....P/N 09-06227 ..... ---

ICLOTH AVIONICS XL SCREEN AND LENS CLEANER

Cleaning wipes for use on large format monitors, touchscreens, whiteboards, LCD / LED / OLED TV screens, windows and glass doors, windscreens, and other extra-large surfaces. Safe for use on all screens, electronics, glasses, and coatings. Wipes are non-streaking and individually wrapped.

Box of 10 .....P/N 09-06228 ..... ---
Box of 24 .....P/N 09-06229 ..... ---
Box of 100 .....P/N 09-06231 ..... ---

UPHOLSTERY FABRIC CLEANER

Cleans effectively without leaving the fabric wet. High foam quickly penetrates and emulsifies soils leaving a pleasant wintergreen aroma. This formulation quickly and effectively removes soils from most upholstered fabrics. 20oz aerosol.

P/N 09-04698 ..... ---

DECALIN AIRCRAFT WINDSHIELD CLEANER KIT

Windshield Wash: • Removes greasy bugs and grime • Designed for aircraft use • Safe on fully cured gel coat and mildly plasticised PVC • Works very well on Auto and House glass • Removes the hazy film inside auto windows • For Acrylic (Plexiglas, Perspex) Polycarbonate (Lexan) and Glass. **Microfiber Cloth:** • 80% Polyester, 20% Polyamide • Will not scratch acrylic or polycarbonate windshields • Ideal for windshield cleaning, reusable, machine washable • Big 16″ x 16″ square cloth .....P/N 05-15251 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CELESTE CLEANING PRODUCTS

CELESTE SP-86000C HEAVY DUTY CLEANER / DEGREASER

Celeste's Heavy Duty Cleaner/Degreaser is a concentrated cleaner that effectively removes heavy soils such as grease and carbon from hard to clean surfaces. The flexible dilution levels allow for easy, cost effective adjustments depending on the level of cleaning required, while the water based technology makes it safe for use on all materials.

1 Qt. Bottle .....P/N 09-05926 ..... ---
5 Gallon Pail.....P/N 09-05970 ..... ---

CELESTE SANI-CIDE EX3 DISINFECTANT AND MULTI-PURPOSE CLEANER

Sani-Cide EX3 is an EPA registered, broad-spectrum disinfectant and multi-purpose cleaner that is safe to use on most surfaces including metal, plastic (including fire retardant thermoplastics), glass, mirrors, leather, fabric, and carpet. This product offers a safe and effective approach to disinfect hard surfaces while also functioning as a high performance interior cleaner.

6oz Bottle .....P/N 09-05903 ..... ---
1 Qt Bottle .....P/N 09-05914 ..... ---
1 Gallon Jug.....P/N 09-05939 ..... ---
5 Gallon Pail.....P/N 09-05974 ..... ---
55 Gallon Drum.....P/N 09-05979 ..... ---
1 Qt Bottle & Sprayer Only.....P/N 09-05899 ..... ---

CELESTE NEXT GENERATION INTERIOR CLEANER COMPLETE

An excellent multi-purpose, multi-surface cleaner effective on a wide range of aircraft interior soils and surfaces. NG Interior Cleaner Complete has exceptional cleaning power and anti-redeposition agents to provide a protective coating that makes subsequent cleanings easier and quicker. Also works as an effective glass cleaner, eliminating the need for a separate product for glass and plastic cleaning.

6 oz Bottle .....P/N 09-05886 ..... ---
1 Qt Bottle .....P/N 09-05906 ..... ---
5 Gallon Pail.....P/N 09-05965 ..... ---
55 Gallon Drum.....P/N 09-05976 ..... ---
10X Concentrate 1 Gallon.....P/N 09-05975 ..... ---
1 Qt Bottle and Sprayer.....P/N 09-05898 ..... ---

CELESTE BIOZYME EX3 ENZYME CLEANER / DEODORIZER

A multi-purpose biochemical cleaner, deodorizer and fabric freshener uniquely formulated to attack tough malodor issues using a 3-pronged approach: malodor neutralization, re-odorization, long term odor control. Incorporate Biozyme EX3 into a Complete Hygiene Program together with Sani-Cide EX3 and NG Interior Cleaner Complete.

6 oz Bottle .....P/N 09-05895 ..... ---
1 Qt Bottle .....P/N 09-05925 ..... ---
1 Gallon Jug.....P/N 09-05950 ..... ---

CELESTE MICROGREEN™ ELITE ADHESIVE AND GUM REMOVER

MicroGreen Elite is a water based microemulsion, adhesive and gum remover. Unlike most adhesive and gum removers, MicroGreen Elite does not rely on high percentages of hazardous or flammable solvents to be effective, making it both user and environmentally friendly. This product comes packaged in either quart or 6 oz. bottles with a convenient flip-top cap for easy-to-target application.

6 oz Bottle .....P/N 09-05919 ..... ---
1 Qt Bottle .....P/N 09-05951 ..... ---

CELESTE BRACKETS FOR FLIGHT FRESH DEODORANT DISCS

Brackets are sold individually and designed to be used with the Flight Fresh Deodorant Discs. The brackets come with or without a "No Smoking" label attached and with an adhesive backing or mounting holes to attach to the lavatory wall.

Standard Adhesive .....P/N 09-05920 ..... ---
Standard Mounting Holes.....P/N 09-05927 ..... ---
No Smoking Adhesive .....P/N 09-05922 ..... ---
No Smoking Mounting Holes.....P/N 09-05928 ..... ---

CELESTE AEROSPACE LENS WIPES

Box of 200 Packets. Designed specifically for use on glass and clear plastic surfaces, as well as video screens, this is a low odor, non-streaking formulation that dries quickly, leaving the surface clean and clear.

Specifications: 8" x 8.5"..P/N 09-05938 ..... ---

CELESTE HIFO-CLEAN CARPET CLEANER

This 1 Gallon Jug of HiFo-Clean is an easy to use foaming carpet cleaner that cleans and lifts dirt, food and drink particles, and other soils commonly found in carpets. After application, it will dry rapidly and can be vacuumed within 30-45 minutes. HiFo-Clean can be used with a motorized brush or hand brush, making it ideal for use in hard to reach areas. This flexibility makes it ideal for use during both deep cleaning and spot cleaning .....P/N 09-05940 ..... ---

CELESTE SP-86000V VALUE WASH EXTERIOR CLEANER

Celeste's non-solvent based liquid cleaner concentrate incorporates the latest technology and offers a blend of benefits and functionality with excellent overall system economics not easily found in the industry today. This environmentally friendly product is non-irritating, safe for workers and has no unpleasant odor.

1 Gallon Jug.....P/N 09-05935 ..... ---
5 Gallon Pail .....P/N 09-05961 ..... ---
55 Gallon Drum.....P/N 09-05977 ..... ---

CELESTE FLIGHT FRESH DEODORANT DISCS - LONG TERM AIR FRESHENER

Flight Fresh Deodorant Discs are porous pucks that are saturated with up to 13 grams of pure fragrance. This makes them capable of providing a pleasant fragrance for long term applications. They are ideal for leaving in aircraft lavatories to provide passengers with a pleasant experience.

Green Apple .....P/N 09-05888 ..... ---
Fresh Breeze.....P/N 09-05889 ..... ---
Lemon Joy.....P/N 09-05890 ..... ---
Fresh Eucalpytus .....P/N 09-05891 ..... ---

CELESTE SANI-COM MULTI-PURPOSE CLEANING TOWELETTE

Introduced over 35 years ago, Sani-Com® was originally designed as a single use towelette for telecommunications and respiratory equipment cleaning. It has since been tested and approved for use as a hand sanitizer. The perfect multi-purpose towelette.

200 Pack .....P/N 09-05930 ..... ---
1200 Pack .....P/N 09-05962 ..... ---

CELESTE 3 X 5 DEEP CLEANING SPONGE

A specially designed two-part sponge particularly effective when used with Celeste's 85000 Interior Cleaner Complete to aid in aircraft deep cleaning during a routine maintenance/cleaning schedule. The unique construction penetrates rough, mottled surfaces that have been chemically or physically etched from prior cleaning abuse without adding to the surface damage caused by solvent-based cleaners or abrasive pads.

450 Pack.....P/N 09-05978 ..... ---
42 Pack.....P/N 09-05881 ..... ---

CELESTE MICROFIBER TOWELS

Celeste's generously sized and heavier weight microfiber towels are made from 70% polyester and 30% polyamide. These microfibers have excellent cleaning qualities, are lint free, washable, and re-usable. Ideal for use as part of a color coded cleaning program with our Complete Hygiene products.

Blue .....P/N 09-05941 ..... ---
Green .....P/N 09-05942 ..... ---
Yellow.....P/N 09-05943 ..... ---

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CELESTE CLEANING PRODUCTS

CELESTE HAND SOAPS

An elegant solution to lavatory and galley soap delivery problems, Celeste's above the counter system eliminates the mess associated with unhygienic soap bars and hard-to-maintain under-the-counter systems. Soaps offered include high quality liquid soap or an easy rinsing foaming soap offering a rich, dense lather. Celeste's JetScent® soap is a unique system that meets two needs in one product: clean hands and odor control. The deodorizer—a high performance fragrance collar—lasts as long as the soap and is automatically replaced with a fresh bottle of soap for a one-step change, offering renewed fragrance with each new bottle of soap.

Description	Part No.	Price
Liquid Hand Soap Almond White Pearl 10 oz. Threaded Bottle	09-05905	---
Liquid Hand Soap Pink Pearl Almond 1 Gallon Jug	09-05949	---
Foaming Hand Soap Spring Water Clean Blue Pearl 8 Oz Snap-In Bottle	09-05907	---
Foaming Hand Soap Spring Water Clean Blue Pearl 8 Oz Threaded Bottle	09-05908	---
Jetscent Foaming Hand Soap & Deodorizer Spring Water Clean Blue Pearl 8 Oz Snap-In Bottle	09-05916	---
Jetscent Foaming Hand Soap & Deodorizer Spring Water Clean Blue Pearl 8 Oz Threaded Bottle	09-05917	---

CELESTE ALCOHOL HAND SANITIZER GEL

Features: • Bottles made from recyclable material • Reliable pump performance • Multiple base options • Multiple formula options including: Alcohol Free Gel, Alcohol-based Gel • Counter mounted bottles: 8 oz foaming and 9.6 oz gel • Flat bottom bottles:

6 oz .....P/N 09-05887 ..... ---
10 oz .....P/N 09-05911 ..... ---

CELESTE ALCOHOL FREE HAND SANITIZER GEL

Celeste Alcohol Free Hand Sanitizer Gel Threaded Bottle includes emollients to leave hands feeling soft without drying them out..... P/N 09-05912.....---

CELESTE ALCOHOL FREE FOAMING HAND SANITIZER

Celeste Alcohol Free Foaming Hand Sanitizer includes emollients to leave hands feeling soft without drying them out.

Snap-In 8 Oz.....P/N 09-05893 ..... ---
Threaded 8 Oz .....P/N 09-05894 ..... ---
No Bottom 2 Oz.....P/N 09-05897 ..... ---

CELESTE GLY-VAK

Gly-Vak is a state-of-the-art preventaive maintenance chemical used to minimize or eliminate the formation of urine scale in vauum waste lines and tanks.

Gly-Vak uses mild organic acids, proprietary surfactants, foaming and gelling agents to completely coat waste tube walls to prevent scale from being deposited and to soften existing scale for removal. Sani-Tank N is a companion product to Gly-Vak that will emulsify and remove the softened scale.

1 Quart .....P/N 09-05929 ..... ---
1 Gallon.....P/N 09-05954 ..... ---
55 Gallon Drum .....P/N 09-05983 ..... ---

CELESTE V-CLEAN SUPREME BOTTLE

Celeste V-Clean Supreme Bottle.

1 quart .....P/N 09-05892 ..... ---

CELESTE CELLULOSE SPONGES WITH WHITE SCRUBBER

Celeste Cellulose Sponges with White Scrubber- 40 count

Yellow .....P/N 09-05884 ..... ---
Pink.....P/N 09-05883 ..... ---
Green.....P/N 09-05882 ..... ---

CELESTE SUPER DEODORANT BOX OF 150 PACKETS

Celeste Super Deodorant offers an intense fragrance for a short duration, making a malodor until the source of the malodor can dealt with. It works by emitting a strong fragrance for a short time. To use, you simply open the packet and place it near the malodor providing a quick and easy fix for emergency malodor situations. The saturated fragrance pad should not be removed from the packet.....P/N 09-05932 ..... ---

CELESTE JETSCENT SPRAY

Celeste JetScent Spray available in various scents. A fast acting air freshener with odor counteractant.

Description	Part No.	Price
Lemon Pump Spray 2 oz. Bottle	09-05896	---
Lemon Pump Spray 6 oz. Bottle	09-05910	---
Eucalyptus Pump Spray 6 Oz Bottle	09-05902	---
Fresh Breeze Pump Spray 6 Oz Bottle	09-05909	---
Clean & Pure Pump Spray 6 Oz Bottle	09-05901	---

CELESTE LIQUID SCRUB DRAIN CLEANER

Uses state-of-the-art oxygenated technology that is uniquely designed around the soil matrix typically found in galley drain clogs. It is safe, mild and essentially non-corrosive, effectively flowing to the clog location to begin its cleaning action. Ideal for clearing blocked or nearly blocked lines or for routine preventive maintenance.

5 Oz.....P/N 09-05885 ..... ---
1 Gallon Jug .....P/N 09-05923 ..... ---

CELESTE SANI-PAK LIQUID

The Sani-Pak® brand is recognized worldwide as the benchmark in aircraft lavatory chemical deodorants. Sani-Pak® liquid contains the latest in malodor counteractant technology and consistently outperforms the competition in long term odor control and prevention of organic buildup. Spills can be easily cleaned using a paste made up of Interior Cleaner Complete mixed with a color-safe bleach such as Oxi-Clean®.

Description	Part No.	Price
Oz	09-05913	---
Quart	09-05948	---
55 Gallon	09-05986	---
275 Gallon Tote	09-05987	---

CELESTE SANI-PAK POWDER

The Sani-Pak® brand is today recognized worldwide as the benchmark in aircraft lavatory chemical deodorants, and Sani-Pak® powder is the grandfather of these chemicals. Unlike other powder products, Sani-Pak® uses two types of water soluble film for optimum solubility. The single-use biodegradable packets are pre-measured for drop-in convenience for treatment of toilets. Spills can be easily cleaned using a paste made up of Interior Cleaner Complete mixed with a color-safe bleach such as Oxi-Clean®.

Description	Part No.	Price
6 Gm Jar of 20 Packets	09-05931	---
6 Gm Box of 100 Packets	09-05952	---
80 Gm Foil Tube	09-05904	---
8 Gm Box of 100 Packets	09-05956	---

CELESTE SANI-TANK

Sani-Tank is a lavatory soak specifically designed to attack tough organic buildup in recirculating toilet systems. By removing the organic tar buildup, it also controls the malodors within the system. Sani-Tank is an unique blend of natural based terpenes that work together to create a very effective, natural solvent base that will remove organic deposits from pump equipment, tank walls, and toilet bowls. This cleaning will prevent potential system clogging failure, reduce toilet system malodor and contribute to an extended life of components

Description	Part No.	Price
Quart	09-05921	---
Gallon	09-05945	---
5 Gallon Pail	09-05966	---
55 Gallon Drum	09-05981	---

CELESTE SANI-TANK N

Sani-Tank N is formulated to work both vacuum and recirculating toilets to remove urine and mineral scale deposits, as well as light organic tar buildup. It is also effective as a hard surface cleaner removing general soils. In vacuum toilets, Sani-Tank N helps to emulsify and remove the urine salt and mineral scale in the lines and tanks.

It works best after the scale has been softened by routine treatment with Gly-Vak. In recirculating toilets, Sani-Tank N is an excellent heavy duty cleaner that will maintain the cleanliness of the toilet bowl, flapper valve, shroud area, and waste tanks. As a general hard surface cleaner, Sani-Tank N removes soap scum, tannins, and other general soils.

Description	Part No.	Price
Gallon	09-05946	---
5 Gallon Pail	09-05967	---
55 Gallon Drum	09-05980	---
275 Gallon Tote	09-05985	---

ALL KLEER

Black Labs Corporation is proud to introduce, All Kleer, the ultimate plastic windshield cleaner and polish. All Kleer was invented by a pilot over 25 years ago for cleaning and maintaining plastic aircraft windshields that require absolute clarity. All Kleer is different than most windshield products on the market as it not only cleans dirt, bugs and grease but leaves a very fine, slick finish. This finish helps to repel water, dust, bugs, and water spotting - making it easier to see and to clean the next time. All Kleer contains no wax, ammonia, or abrasives and does not require the use of any water. A non-pressurized leak proof 8oz bottle is designed to be carried on board if desired. Simply apply All Kleer with a clean towel to a dry windshield cleaning off any bugs and dirt and allow 30-60 seconds for a haze to form. After it has completely dried, wipe off with a clean towel and feel the All Kleer finish.

P/N 09-01602 ..... ---

PRIST® ACRYLIC, PLASTIC AND WINDSCREEN CLEANER: FOR ALL TYPE OF WINDOWS

The convenient 13-ounce can is ideal for use on acrylic, stretched acrylic, poly carbonate, glass, and coated glass. It may also be used for cleaning many other sources including aircraft interiors, goggles, helmets, lenses, and plastic and metal surfaces. Prist® cleaner contains no abrasive cleaning agents and cleans without scratching glass or plastic surfaces. This prevents scratches in acrylic windshields that necessitate costly replacement. Unlike other cleaners, Prist® cleaner dispenses as foam and leaves no residue. The cleaning agent soaks into the dirt, grease and insects to remove them with minimum effort. Suitable for interior and exterior cleaning, Prist® cleaner prevents static charge build-up with regular use.

13oz. Can ..... P/N 09-02049 ..... ---
Case (12 Cans) ..... P/N 09-02049-1 ..... ---
5 Gallon Pail ..... P/N 09-06414 ..... ---

MASTER FORMULA CLEANER GLOSS

Cleaner Polish polishes oxidized paint to a mirror finish. Its creamy, smooth texture is grit free yet contains the most powerful polishing ingredients ever formulated. Powerful enough to polish the most severely oxidized surface and smooth enough to leave the surface flawless.

12 Ounce ..... P/N 09-05337 ..... ---

M-RON GLASS CLEANER / WAX

M-Ron Glass is not your ordinary wax. It is a CLEANER & WAX so you are not waxing over a dirty surface or getting a waxy build up. That's why M-Ron Glass gives you such an AMAZING SHINE! Because of how this works, it is recommended that once applied; let it sit and bake in the sun for 15 to 30 minutes. You will get a deeper shine and a higher luster than you would if you were to apply it and take it off right away. It will NEVER bake itself to the surface!

12 oz. ..... P/N 09-03483 ..... ---

GLARE PROFESSIONAL POLISH

A non-stick high-gloss all-weather sealant. The finest polish for your car, airplane, boat, motorcycle, glass, stainless steel, fiberglass, chrome, Carbon Graphite, and RV in the world's market. Filters out UV Rays, turns to glass on and within your paint. Contains Glassplexin®. Bonds molecularly to your paint. The most revolutionary polish ever developed. Beyond 22nd century technology. Lasts up to five years.

12 oz. ..... P/N 09-01055 ..... ---

GLARE SPIDER

"Another innovation of Ultra 2000 MFG Int'l, Inc. Beyond 22nd century technology."

GLARE Spider is the most advanced swirl, spider web, and scratch removal product in the market. Ultra high purity metal interlinked fusion of glass particles to Glassplexin forming a unique highly advanced swirl mark remover polish. GLARE Spider fills in permanently, it is NOT a temporary solution - not found anywhere.

12 oz. ..... P/N 09-01061 ..... ---

GLARE ULTRA WASH

"Cleans your vehicle, keeps your shine."

The most advanced wash ever developed. A PH balanced concentrated wash. Safe for all paints and finishes including the new clear-coated paints. New technology that leaves your vehicle clean and glossy like no other vehicle wash can. Contains Glasplexin.

12 oz. ..... P/N 09-01062 ..... ---

GLARE VINYL • LEATHER ALL WEATHER PROTECTANT

A special blend of natural ingredients and a chemical formulation called SUPPLEXIN which is designed to beautify, soften, deodorize, preserve, and protect against damaging agents found in the everyday usage of your vehicle's interior. This product cleans, conditions, preserves, and protects in one easy step. Contains no harmful silicons, or adverse active ingredients. Blocks harmful UV rays.

12oz ..... P/N 09-01056 ..... ---

GLARE TIRE MAGIC

"The ultimate all in one tire appearance protection product!"

Glare Tire Magic will filter out harmful Ultra Violet Rays from the sun. Extreme temperature resistant formula for all climates. Stops tires from cracking and fading. Gives a beautiful rich natural high gloss finish. Splatter resistant formula. Easy to use - just spray and wipe!

16 oz ..... P/N 09-01058 ..... ---

GLARE TURBO ACTION WHEEL CLEANER

Glare Turbo Action Wheel Cleaner is the most powerful, effective, & fastest working wheel cleaner on the market. Safe for ALL types of wheels - Aluminum, Chrome, Magnesium - as well as clear coated & painted wheels. Makes your wheels look show room bright and shiny the easy and safe way. Removes and dissolves dirt, grime, brake dust, and grease. Spray on Glare Turbo Action Wheel Cleaner to dirty wheels & hose off with clean water to get your wheels looking like new again!

16 oz. ..... P/N 09-01063 ..... ---

GLARE (GALLON) PROFESSIONAL POLISH • MICRO-FINISH • ULTRA WASH

GLARE Professional Polish – A non-stick high-gloss all-weather sealant. The finest polish for your car, airplane, boat, motorcycle, glass, stainless steel, fiberglass, chrome, Carbon Graphite, & RV in the world's market. Filters out UV Rays, turns to glass on and within your paint. Contains Glassplexin®. Bonds molecularly to your paint. The most revolutionary polish ever developed. Beyond 22nd century technology. Lasts up to 5 years.

GLARE Micro-Finish – "We burn out the competition." – A non-stick high-gloss all-weather sealant that lets paint breathe. Contains Glassplexin®. Ultimate scratch and oxidation removal for Cars, Planes, Boats, Motorcycles, Fiberglass, Plastic, Stainless Steel, Chrome & Polished aluminum. For use with GLARE Professional Polish.

GLARE Ultra Wash – "Cleans your vehicle & keeps your shine" – The most advanced wash ever developed. A PH balanced concentrated wash. Safe for all paints and finishes including the new clear-coated paints. New technology that leaves your vehicle clean and glossy like no other vehicle wash can. Contains Glasplexin®.

Glare Micro Finish - 12 oz. ..... P/N 09-02362 ..... ---
Glare Micro Finish - Gallon ..... P/N 09-01065 ..... ---
Glare Pro Polish - Gallon ..... P/N 09-01066 ..... ---
Glare Ultra Wash - Gallon ..... P/N 09-01060 ..... ---

SUN MAGIC CLEANER 1 PINT TUB

The effective natural cleaning product is safe to use on many different surfaces, from bathroom sinks and mirrors to ovens and automobiles. Customers nationwide enjoy this product because it's free from harsh chemicals, ammonia, and abrasives, leaving surfaces clean and film-free. SUN MAGIC smells better and brings out the natural shine in stainless steel, chrome, porcelain, bathroom tiles, and glass. All it takes is one try using SUN MAGIC in your home or office, and you'll be sold. It can be used in spray bottles, carpet cleaners, or degreasing machines.

P/N 12-05108 ..... ---

PLEXIGLASS RESTORATION - LEATHER CARE

MICRO-MESH WINDSHIELD SCRATCH REMOVAL KIT

Micro-Mesh is a cloth backed cushioned abrasive with a resilient layer of material between the back and the abrasive. When pressure is applied, the abrasive crystals recede into the resilient layer and find an even plane for cutting. The result is a smooth shaving action with an ultra fine scratch pattern which restores scratched, discolored, or damaged fiberglass or acrylics to like-new condition. Kit includes everything needed to repair approximately 30 sq. ft.

Standard Kit (restores up to 30 sq. ft.).....P/N 09-24700 ..... ---
Large Kit (restores up to 60 sq. ft.) .....P/N 09-24701 ..... ---
Professional Kit (restores up to 100 sq. ft.).P/N 09-24716 ..... ---

MICRO-GLOSS POLISH

Safe for use on bare acrylic, bare polycarbonate, and coated polycarbonate. Tests using Micro-Gloss were completed according to ASTM F791 standards and to USAF specification 16ZK002F (Addendum2) at stress levels of 2000 and 3000 PSI in both dry and humid conditions. Approved for use on the inside and outside surfaces of F-16 aircraft • Removes fine scratches • Removes swirls created by improper cleaning methods • Removes haze and milkiness from interior/exterior windows • Provides a final polish, leaving you with an ultra-clear finish • Can be applied by hand or machine • Approved for use by Boeing, Spec D6-52021 • Approved for military use, NSN #5350-01-334-8997. 8oz .....P/N 09-24710 ..... ---

MICRO-SURFACE WINDSHIELD RESTORATION KITS

Micro-Surface Finishing Products, Inc. FAA Repair station #KY2R969K, has been a leader in acrylic restoral for the past 30 years. The following kits were developed for use with rotary buffer. Micro-Mesh is approved by Boeing/McDonnell Douglas, the Military and FAA. All kits come with easy to read instructions. Designed to save you both money and time, these kits will restore acrylic back to optical clarity using a minimum of steps. Re-order individual components as you need them. All kits restore up to 100 sq. ft.

ACRYLIC MAINTENANCE KIT

Remove scratches, halos and haze • 5" White Foam Sponge Pad • 5" TufBuf, All Natural Lambswool Polishing Pad • 5" Back-up Pad • 8 Ounce Bottle Micro-Gloss • 8 Ounce Bottle Anti-Static Cream • 2 Cotton Flannel
P/N 09-24715 ..... ---

LIGHT DAMAGE REMOVAL KIT

Remove minor scratches and scuff. 2-5" Loop Back Discs, Micro-Mesh 1500, 2-5" Loop Back Discs, Micro-Mesh 2400, 2-5" Loop Back Discs, Micro-Mesh 3600, 5" White Foam Sponge Pad, 5" TufBuf All Natural Lambswool Polishing Pad, 5" Back-up Pad, 8 Ounce Bottle Micro-Gloss, 8 Ounce Bottle Anti-Static Cream 2 Cotton Flannel.....P/N 09-24720 ..... ---

HEAVY DAMAGE REMOVAL KIT

Remove crazing, scratches, and gouges. 5-5" Loop Back Discs, Wet/Dry 120 Grit, 5-5" Loop Back Discs, Wet/Dry 220 Grit, 5-5" Loop Back Discs, Wet/Dry 400 Grit, 2-5" Loop Back Discs, Micro-Mesh 1500, 2-5" Loop Back Discs, Micro-Mesh 2400, 2-5" Loop Back Discs, Micro-Mesh 3600, 5" White Foam Sponge Pad, 5" TufBuf All Natural Lambswool Polishing Pad, 5" Back-up Pad, 8 Ounce Bottle Micro-Gloss, 8 Ounce Bottle Anti-Static Cream, 2 Cotton Flannel.....P/N 09-24725 .....

MICRO-MESH POLYCARBONATE RESTORATION KIT

Excellent for restoring polycarbonate such as Lexan on aircraft, boats, cars, & motorcycles. Will restore up to 100 square feet material. Kit includes: • 5" disc w/loop 2400 MicroMesh • 5" disc w/loop 3600 MicroMesh • 5" random orbital or drill back-up pad • 5"x 3/4" TufBuf lambswool polishing pad • (2)11.5"x 12" flannel sheets • Instructions • 5" white sponge pad • 8 oz. Micro-Gloss #5 • 8 oz. Micro-Gloss • 8 oz. Final Finish..... P/N 09-00490 ..... ---

MICRO-MESH FINISHING KIT FOR WOOD

This kit is designed for craftsmen for use in hand finishing applications and without the mess of steel wool, rottenstone or pumice. MicroMesh may be used on bare or finished wood with wet or dry application method. A high reflective finish, satin or matte finish can be achieved, depending on how many MicroMesh steps are completed. This makes it an excellent product for spot matching of finishes .....P/N 09-24705 ..... ---

PLEXIGLASS LENS REPAIR KIT

Protect your investment by restoring crazed, scratched, hazy lenses. Perfect for recognition light lenses, navigation light lenses, and landing light lenses. Lenses can be restored on the plane without removal. Soft Touch pads in this kit fit nicely in your hand and allow you to polish both concave and convex surfaces with ease. Dry pads, store and reuse again and again.....P/N 09-01603 ..... ---

PERRONE LEATHER PRODUCTS

DEEP CLEANER FOR LEATHER

Perrone's Leather Cleaner / Conditioner is a premium blend of gentle cleansers and light conditioners formulated to clean and rejuvenate finished leather, vinyl and plastic surfaces. Perrone's Leather Cleaner/ Conditioner removes dirt, dust and oils without drying or damaging the surface.
Perrone's Leather Cleaner/ Conditioner helps protect leather from weathering and fading. Leaves leather surfaces soft, supple and smelling like new again. The wipes are treated with the same leather cleaner/ conditioner as in the spray bottle.

32 oz. w/Trigger Spray .....P/N 09-00557 ..... ---
1 Gallon Refill .....P/N 09-02062 ..... ---
Sontara Wipes (45 Wipes).....P/N 09-00559 ..... ---

DEEP CLEANER FOR LEATHER

This unique formula is custom blended to clean and rejuvenate fine leather surfaces. Leather Cleaner with Conditioner features a unique protective barrier that, when used regularly, helps to prevent soiling from stains such as dirt, grease, ink, grime and body oils.
P/N 09-02120 ..... ---

LEATHER CONDITIONER

This unique formula is custom blended to clean and rejuvenate fine leather surfaces. Leather Cleaner with Conditioner features a unique protective barrier that, when used regularly, helps to prevent soiling from stains such as dirt, grease, ink, grime and body oils.
16 oz .....P/N 09-02121 ..... ---

INK REMOVER

Perrone Ink Remover will help to effectively remove most ink and highlighter stains from finished leather surfaces. Removes lipstick and other stains quickly and effectively. Will not harm the finish system of finished leather.
2oz .....P/N 09-02122 ..... ---

LEATHER CLEANING BRUSHES

Specifically designed for leather cleaning, Perrone's Leather Cleaning Brushes dig out tough soils and stains from the pores of natural and corrected grained leather. For best results use in conjunction with Perrone's cleaning products. Can also be used for suede and nubuck. Sturdy Wood Block with 3-1/2"x2" Bristle Bed ....P/N 09-02123 ..... ---

PERRONE LEATHER CARE & CLEANING KIT

This kit features the professional-use aviation leather cleaning products in a custom leather bag. KTS-09 Leather Cleaning & Care Kit.
P/N 09-04274 ..... ---

HEADLIGHT REPAIR & SCRATCH - AWAY RESTORE KITS

PLEXIGLASS LENSE REPAIR KIT

Removes crazing, scratches, scuffs, and haze from navigation light lenses, recognition light lenses and landing light lenses. Not necessary to remove lense to restore to optical clarity.
P/N 09-01603 ..... ---

ACRYLIC HEADLIGHT LENSE RESTORATION KIT

Easy to use double sided MICRO-MESH SOFT TOUCH PADS make removing cloudiness and haze from lenses, lense covers, tail lights, tail light black-outs, and bug deflectors a snap! Each kits contains: 3 IN. x 4 IN. double sided pads in 120/220, 400/1500, 2400/3600, 4000/12000, 1 oz. bottle MICRO-GLOSS liquid abrasive, and 2 cotton flannel cloths. Clean, dry, and reuse over and over - A FANTASTIC VALUE!
P/N 09-02172 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GRANITIZE METAL POLISH SYSTEM

Simple but effective system of six polishes designed to polish painted surfaces, aluminum 22916T6 & 2024T6 both clad and bare, and other metals including steel and titanium. All polishes are color coded to reduce cross contamination and aid in taking the guesswork out of any polishing procedure. When used properly, The Granitize System will produce a smooth, highly reflective mirror-like surface on brightwork that can be treated with Xzilon molecular adhesion to maintain the finish.

FINISH

XMP-S METAL POLISH (SUPERFINE)

Final polish for a mirror like finish. Can also be used on painted surface.....P/N 09-02181 ..... ---

XMP-M METAL POLISH (MEDIUM)

For Light oxidation/scratches, Rain Spotting. Can also be used on painted surfaces.....P/N 09-02184 ..... ---

XMP-F METAL POLISH (FINE)

Color: Yellow. Use on: Swirls, Very fine scratches, Can also be used on painted surface.

P/N 09-02183 ..... ---

CUTTING

XMP-C METAL POLISH (COARSE)

For Medium oxidation/scratches

P/N 09-02233 ..... ---

GRANITIZE HI GLOSS TIRE DRESSING

Hi-Gloss Tire Dressing is perfect for that "Show" aircraft look as it is a highly durable, concentrated, water-based dressing that can be mixed to the desired gloss level. This milky white product leaves a long lasting hi-gloss finish because it contains the highest quality silicone and no harsh solvents. The gloss can be reduced by mixing water with the product. It will shine and protect tires and any other vinyl, rubber or plastic surface. Allow product to dry, or wipe off with a sponge, before rolling wheels.

Gallon.....P/N 09-04353 ..... ---
5 Gallon.....P/N 09-04354 ..... ---

PLANE PERFECT ECOCLEAN - WATERLESS AIRPLANE CLEANER

EcoClean is a waterless wash and wax system designed for people that either can't use water due to local rules or otherwise prefer not to use water for washing their vehicle. Water can seep into places not seen and have unintended consequences! EcoClean emulsifies and suspends dirt and grime producing a clean surface. It also includes natural carnauba wax for a streak and scratch-free shine. Safe for all panels, fabric/dope, wheels, glass and more, EcoClean is a great waterless washing alternative with lasting protection.

16 ounces.....P/N 09-05871 ..... ---
Gallon.....P/N 09-05872 ..... ---

PERFECT LEATHER - NATURAL LEATHER CONDITIONER

Perfect Leather is a lanolin based leather cleaner and conditioner in one. pH balanced, including aloe and vitamin E to strengthen leather and resist scuffing. Perfect Leather should be applied on a regular basis to maintain like new strength and suppleness on all leather, imitation leather and vinyl surfaces.

16 ounces .....P/N 09-05873 ..... ---
Gallon.....P/N 09-05874 ..... ---

BUDDA BELLY OIL AND GREASE CLEANER

Inspired by the exhaust-wheezing, oil-spitting radial engine of one of the founders, Buddha Belly was developed to remove the oil, dirt, grime, bugs and exhaust and other stains that plague all aircraft, boat and car owners. Got some junk on those rivet heads? Exhaust or turbine soot staining? Fuel stains? Buddha to the rescue!

16 ounces .....P/N 09-05869 ..... ---
Gallon.....P/N 09-05870 ..... ---

GRANITIZE WASH AND WAX CONCENTRATE

Wet Wash is a multi-use product that can be used on General, Corporate and Commercial aircraft for new or in-service aerospace paint. This liquid contains carnauba wax and will remove moderate carbon build-up and light stains. It has a low usage cost because it is highly concentrated and can be watered down to meet the specific needs. The pH formulation and low alkalinity has excellent sheeting action, and the high foaming action lifts and holds dirt in suspension for thorough rinsing. Safe for use on Xzilon 3 coated aircraft.

Gallon.....P/N 09-04349 ..... ---
5 Gallon.....P/N 09-04351 ..... ---
55 Gallon.....P/N 09-04352 ..... ---

GRANITIZE ZERO V.O.C DEGREASER

Zero V.O.C. Degreaser is an environmentally friendly, aggressive, concentrated, non caustic all purpose degreaser. It is bio-degradable and effective even when diluted 20:1 which makes it a low usage item. This is the ideal product for cleaning engine cowlings, landing gear, wheel wells and aircraft bellies. This green liquid contains fortified surfactants that help to loosen and remove dirt and grime. It is great as a wipe on, but can be sprayed on and pressure rinsed for a quick effective cleaning. Available in gallon, 5 gallon and 55 gallon containers.

Gallon.....P/N 09-04337 ..... ---
5 Gallon.....P/N 09-04338 ..... ---
55 Gallon.....P/N 09-04339 ..... ---

GRANITIZE OXIDATION REMOVER FOR PAINT

Oxidation remover is formulated as a medium range aggressive cleaner. It is ideal for removing light to medium scratches and oxidation from all painted surfaces. Quickly and effectively removes imperfections while buffing out oxidized paint when detailing which helps to minimize work time. This white crème has medium grade abrasives in it and requires very little product to get the job done. Can be applied by hand or machine. Available in gallons.

Gallon.....P/N 09-04333 ..... ---

GRANITIZE SPRAY AND SHINE CLEANER / COLOR BRIGHTENER

Spray & Shine is an exterior, light duty cleaner. This pink liquid is a spray on, wipe off formula to clean, enhance and maintain painted surfaces and brightwork. It is recommended for removing bugs, smudges, spotting and light carbon buildup on exterior surfaces. This product is highly recommended for post flight wipe down of leading edge and engine inlet debris. Leave on as a film during coastal or tropical parking to preserve brightwork treated with Xzilon 3. It is also used as a lubricant/cleaner when micro-polishing paint with Grana-Clay Bars. Safe for use on Xzilon 3 coated aircraft. See XC11CL-Q on page 11 for interior use. Aviation Industry Certified.

Gallon .....P/N 09-04334 ..... ---
5 Gallon .....P/N 09-04335 ..... ---
55 Gallon .....P/N 09-04336 ..... ---

GRANITIZE HARD SURFACE CLEANER CONCENTRATE

Hard Surface Cleaner is a powerful all purpose cleaner. This blue solution is designed for post flight wipedown or general dry wash cleaning of complete airframe. It is concentrated blend of alcohol and grease cutting agents that contains no soap or ammonia and can be diluted for lighter cleaning jobs. It is economical, easy to use and leaves no residue or streaking. Safe for use on Xzilon 3 coated aircraft. Aviation Industry Certified.

Gallon .....P/N 09-04340 ..... ---
5 Gallon .....P/N 09-04341 ..... ---
55 Gallon .....P/N 09-04342 ..... ---

AERO COSMETICS CLEANING PRODUCTS

WASH WAX ALL

Wash Wax ALL is a biodegradable waterless wash and wax in one. Clean & protect your entire vehicle without water. Developed over 30 years ago for Aircraft also works great on a aircraft, RV, Car, Boat, and Motorcycle. Removes dirt without scratching. Simply spray on and wipe dry, leaves an anti-static, non-stick UV protective coating on all surfaces such as paint, glass, plastic, leather, vinyl, rubber, wood, gel coat, aluminum, granite, and other hard surfaces. Meets Boeing Aircraft cleaning Spec. Exterior D6-17487P and Interior D6-7127M.

Pint.....P/N 09-02514 ..... ---
Quart.....P/N 09-00493 ..... ---
Gallon .....P/N 09-00494 ..... ---
5 Gallons.....P/N 09-05786 ..... ---

WASH ALL DEGREASER

Wash ALL is a biodegradable cleaner and degreaser used for those tough, greasy, oily, and grimy cleaning jobs such as aircraft engine areas, landing gear, bellies, and black streaks on RV`s and airplanes, car wheels, tires, boat transom, and water lines. Removes dirt without scratching. Simply spray on and wipe dry. Works on all surfaces such as paint, glass, plastic, leather, vinyl, rubber, wood, gel coat, aluminum, and other hard surfaces. Meets Boeing Aircraft cleaning Spec. Exterior D6-17487P.

Pint.....P/N 09-02418 ..... ---
Quart.....P/N 09-00495 ..... ---
Gallon .....P/N 09-00496 ..... ---

AERO BELLY SOAP

Belly Soap, The quickest and easiest way to clean the dirtiest aircraft bellies and engine areas that are mixed with dried or baked-on hydraulic fluids and oils. It also works great on RVs, Cars, Boats, and Motorcycles. Safely removes grease, oil, hydraulic fluid, and exhaust soot. Simply spray on and wipe dry. Safe on all vehicle surfaces wet or dry. Meets Boeing Aircraft cleaning Spec. Exterior D6-17487P. For tough cleaning jobs, use with the Aero Scrubber.

Pint .....P/N 09-02518 ..... ---
Quart .....P/N 09-06186 ..... ---

AERO PLEXWAX AIRCRAFT WINDOW CLEANER

PlexWAX leaves an antistatic protective coating on all aircraft windows both plastic and heated glass. PlexWAX is also safe to use on cockpit instruments and displays. Water Based, Non corrosive, Alcohol & Ammonia Free. Meets Boeing Spec. D6-17487P & D6-7127M. PlexWAX is water-based, non-toxic, biodegradable, and contains no alcohol or ammonia. • Faster easier clean ups • Water based, Alcohol & Ammonia free • Meets Boeing Aircraft specs. • Safe on all surfaces • Cleans & protects

8 oz. .....P/N 09-02517 ..... ---
Gallon .....P/N 09-02519 ..... ---

AERO LEATHER SOAP

Leather Soap gently cleans and removes dirt, grease, body oils, and lotions from leather and vinyl. Meets Boeing Aircraft Interior cleaning specification D6-7127M. Condition with Leather Care. For everyday cleaning use Wash Wax ALL (Blue). Water Based, Nontoxic, biodegradable, Alcohol and Ammonia free. Does not contain animal oils, solvents, or petroleum products.

Pint .....P/N 09-00502 ..... ---
Gallon .....P/N 09-02516 ..... ---

AERO LEATHER CARE

Leather Care restores, moisturizes, conditions, and protects Aircraft leather and vinyl. Repels dust and dirt without leaving an oily residue. Provides a long lasting barrier against drying and cracking from damaging ultra-violet rays.

Pint.....P/N 09-00503 ..... ---
Gallon.....P/N 09-02522 ..... ---

AERO RUBBER CARE

Easy to use water-based rubber and de-ice boot care product. Restores and protects rubber, giving that new semi-gloss look without leaving oily residue. Excellent on weather stripping, tires or any rubber or plastic item.

Pint .....P/N 09-00505 ..... ---
1/2 Gallon .....P/N 09-02515 ..... ---

AERO COSMETICS INTERIOR CLEANER

Interior Cleaner cleans and removes beverage spills and stains from Aircraft, Car, Boat, and RV carpets, seats, tray tables, side panels, cockpits, and galleys. Works well with the Aero Scrubber.

Pint .....P/N 09-00497 ..... ---
1 Gallon.....P/N 09-05713 ..... ---

WATER SPOT REMOVER

Removes hard water spots from paint, gelcoat, plastic, chrome, aluminum and stainless. Clear Coat safe, waterbased. To prevent water spots, use Wash Wax ALL. Use Aero Scrubber to softly scrub without scratching.

Pint .....P/N 09-00507 ..... ---
1/2 Gallon.....P/N 09-02523 ..... ---

AERO POLISH ALL

Polish ALL is an easy-on, easy-off, liquid finishing polish. It will remove oxidation and fine scratches from paint, plastic (Aircraft Windows), aluminum, and other metals. Polish ALL can be applied by hand or with a power polisher. Keep the finish clean and protected after polishing by applying Wash Wax ALL.

8 oz .....P/N 09-00508 ..... ---

AERO SAFESOLV SOLVENT

All purpose citrus solvent. Removes tar, oil, hydraulic fluid, adhesives and gum. A safe, effective alternative to toxic chemicals that is safe to use on paint, plastic, glass, bare metal, carpet and seats.

8 oz. .....P/N 09-00499 ..... ---

AERO SCRUBBER

The Aero Scrubber is a soft, non-scratching, long-lasting, reusable scrubber pad. Use with Wash Wax ALL to help remove bugs from leading edges or use with Wash Wax ALL (Degreaser) or Belly Wash on tough cleaning jobs such as aircraft bellies, engine areas, wheels and tires.

Pack of 5 Pads .....P/N 09-00509 ..... ---

AERO TOWELS

Aero Towels are an All purpose reusable Microfiber towel. Super soft, absorbent, long-lasting and lint-free. The best towel for all of your aircraft cleaning needs. Four (4) washable 16”x16” Aero Towels per package4 pack.

P/N 09-00510 ..... ---

AERO DIAPER

AeroDiapers are soft, absorbent, lint-free, 100% cotton 1-ply diaper for all your cleaning and polishing needs. 12 washable 16”x18” Aero Diapers per package.

P/N 09-00511 ..... ---

AERO STARTER KIT

The Wash Wax ALL Starter Kit is ALL you need to get started with Wash Wax ALL. Kit includes: one 16oz Wash Wax ALL, one 16oz Wash Wax ALL (Degreaser), one 4oz Belly Wash, one Aero Scrubber Pad, and one package of 4 Aero Towels.

P/N 09-00513 ..... ---

AERO LEATHER/VINYL KIT

The Leather Vinyl Care Kit is ALL you need to clean, restore, and protect leather and vinyl in one kit. Kit Includes: one 16oz Leather Soap, one 16oz Leather Care, one package of 4 Aero Towels, one mini Aero Scrubber, and a 4oz Wash Wax ALL.

P/N 09-00514 ..... ---

AERO SCRUBBER PAD KIT

The Aero Scrubber - 3 pads - 1 holder. Soft, non-scratching, long-lasting, reusable scrubber pad. Use with Wash Wax ALL to help remove bugs from leading edges or use with Wash Wax ALL (Degreaser) or Belly Wash on tough cleaning jobs such as aircraft bellies, engine areas, wheels and tires. TIP: Spray Wash Wax ALL on bugs and let soak for 10-15 min. then respray and wipe off. This will make bug removal super easy!! .....P/N 09-01616 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AEROLIFE AIRCRAFT CLEANER & BELLY WASH

Emulsifies oil and scum, the non-foaming biodegradable formula cleans without "Phosphates". The water-based degreaser also cleans aircraft carpets, upholstery, fabrics and leaves a pleasant fragrance. Economical concentrate 50/50 ratio saves money; one gallon makes two gallons of cleaner and can be applied with a power washer or by hand. Can also be used in the engine compartment and is safe on rubber products and hoses. The ladies love this product for washing machines, as it does a great job removing oil from work clothes. Can also be used to clean up oil spills.

1 oz. ..... P/N 09-02539 ..... ---
Gallon ..... P/N 09-02533 ..... ---

AEROLIFE AEROWAX AIRCRAFT WAX

AeroWax Aircraft Wax is made from Poly-Carnauba. Easy Application and Aerospace Developed. 16 oz.
P/N 09-02535 ..... ---

JET STREAM LEATHER CLEANER

Aircraft Leather Cleaner & Conditioner will effectively clean, condition, and preserve the beauty of new and worn leather. This product will not bleed onto fabric. It contains no silicone or heavy waxes that can damage stitching or become slippery. This product has been enriched with mink oil which is known for its superior ability to preserve and condition leather.

8 oz ..... P/N 09-04692-16 ..... ---

REALCLEAN NANO CERAMIC SPRAY COATING

Sapphire SiO2 ceramic spray coating for aircraft delivers unmatched water repelling water sheeting and chemical resistant protection that lasts up to 6 months. Simply spray on a clean and dry surface, spread, and remove with a folded microfiber cloth; for best performance, paint should be clean and free of contaminants. Sapphire SiO2 ceramic spray coating adds a brilliant mirror-like shine that enhances the depth of color and finish by reducing water spots and contaminant deposits.

Can be used in direct sunlight and on all exterior surfaces, including paint, composite, metal, plastic, windscreens, glass, gel coat, trim, and wheels. Safe for fabric aircraft. Use Sapphire SiO2 as a stand-alone product or in conjunction with other protective coatings as a top coat or refresh for ceramic-coated aircraft, vehicles, and watercraft.

16 oz ..... P/N 09-06065 ..... ---
32 oz ..... P/N 09-06066 ..... ---
Gallon ..... P/N 09-06067 ..... ---

MILWAUKEE M12 VARIABLE SPEED POLISHER/SANDER

Optimized to provide the fastest and most precise detail work, the new tool performs the work of two tools in one by easily switching between polishing and sanding modes. As the most compact cordless polisher on the market, the M12 Polisher/Sander is the perfect complement to a full size polisher for a faster finish. Featuring Dual Mode Control and a variable speed trigger, the M12 Polisher/Sander delivers increased user control, regardless of the application. A tool-free accessory change allows the user to quickly change between polishing and sanding accessories ... P/N 12-05662 ..... ---

MILWAUKEE M18 FUEL 15MM RANDOM ORBITAL POLISHER

Milwaukee M18 FUEL 15mm Random Orbital Polisher is the most powerful cordless polisher on the market. By harnessing the power, performance, and run-time of M18 FUEL technology, this tool delivers corded performance while providing you with the freedom to work anywhere. This battery-powered polisher gives you total control with its variable speed trigger, 8-position speed dial with RPM settings ranging from 2,650-5,100 RPM, trigger lock-on button, and maintains speed under load better than any cordless competitor. The M18 FUEL 15mm Random Orbital Polisher frees you from the fear and frustration you may face in applications from surface damage or cord management. With over 2" of battery clearance and proper use, you can rest assured that their work surface is protected from dents and scratches. The Milwaukee M18 FUEL 15mm Random Orbital Polisher provides the run-time necessary to keep professionals productive during polishing and heavy correction applications when paired with M18 Redlithium High Output XC 6.0Ah batteries. This polishing tool is easy to use and comfortable for extended periods with an optimized center of balance and ergonomic design.
P/N 12-05658 ..... ---

PRO-TEC SEALANT POLISH

Seals the Surface to protect it from pollutants, harsh weather, sun glare,UV Rays and saltwater. Easy to apply, leaves a high gloss shine. Pro-Tec Sealant Polish Easy To apply Leaves a High-gloss shine Removes and prevents fading and oxidation Actually Seals the Surface to protect it from pollutants, harsh weather, sun glare and saltwater. Washing will 'Not' remove Product from surface. 16 oz. ..... P/N 09-04539 ..... ---

PRO-TEC NU-PAINT MOISTURIZER

Tested and proven for old or heavily oxidized boats cars or RV's. Restores color and removes oxidation. For old or heavily oxidized boats cars or RV's. Not a wax or compound but an actual oxidation remover that matches color. Rubbing compounds contain harsh abrasives that scratch and even remove the surface fiberglass and gel-coat. The moisturizer contains only MICRO - FINE abrasives that will not harm the surface. After NU-PAINT MOISTURIZER is used, wash and dry, then apply our Pro Tec Sealant Polish to your boat, car or RV for great protection and shine.

16 oz. ..... P/N 09-04540 ..... ---

PRO-TEC SHOWROOM CONDITIONER QUICK DETAIL

Cleans, polishes and enhances the luster on paint, glass, chrome, rubber, Plexiglas, and fiberglass. Neutralizes static electricity so dust will not stick to surface.

16 oz. ..... P/N 09-04541 ..... ---

PRO-TEC WASH AND GLOSS SOAP

Cleans fiberglass and painted surfaces leaving a microscopic film of protection, enhances shine and repels water. Pro-Tec Wash and Gloss Cleans fiberglass and painted surfaces Leaving a microscopic film of protection Enhances shine and repels water PRO-TEC WASH AND GLOSS can be used in direct sunlight.

16 oz. ..... P/N 09-04543 ..... ---

PRO-TEC MIGHTY TUFF CLEANER / DEGREASER

Will not harm carpet or fabric. Great for cleaning vinyl, plastic and rubber. Multi-purpose cleaner/degreaser. Removes blood, coffee, grease and fish formulas. Great for cleaning vinyl, plastic and rubber. Multi-purpose cleaner/degreaser. Multi-purpose cleaner / degreaser is water-soluble Can dilute or use full strength Removes blood, coffee, grease and fish formulas from carpet Will not harm carpet or fabric itself Great for cleaning vinyl, plastic and rubber Even cleans mildew form vinyl seats!

16 oz. ..... P/N 09-04545 ..... ---

PRO-TEC PAINT CARE KIT

The perfect kit to keep paint looking new and protect your investment. The waterproof bag makes it all convenient. For oxidation or dull finish add Nu-Paint moisturizer to your cart not included in the care kit!
P/N 09-04544 ..... ---

MCFARLANE D A M WINDOW CLEANER

A fast, streak free liquid spray designed for acrylic and other surfaces. The carnauba wax and polymer formula fills minor scratches and leaves a slick clean surface that makes cleaning bugs easier next time.

Aircraft Size-1.5oz (single unit) ..... P/N 05-21913 ..... ---
Aircraft Size-1.5oz (case of 14) ..... P/N 05-21915 ..... ---
Hangar Size-16oz (single unit) ..... P/N 05-21914 ..... ---
Hangar Size-16oz (case of 12) ..... P/N 05-21916 ..... ---

MILWAUKEE M18 FUEL 7 VARIABLE SPEED POLISHER

The M18 FUEL 7" Variable Speed Polisher is the world's first cordless full-size rotary polisher. By harnessing the power, performance and run-time of M18 FUEL technology, this tool delivers corded performance that allows users to power through the most demanding applications. At more than 1 lb. lighter than corded, and the ability to deliver total control through a variable speed dial and trigger, the new M18 FUEL Polisher frees users from the extra work, distractions, paint damage, and inconvenience caused by cords. Paired with M18 XC5.0 batteries, the M18 FUEL Polisher can complete a full size car on one charge when working on moderate to good paint. The M18 FUEL Polisher is equipped with a rubber over mold front housing to protect the paint from scratches in use as well as a removable dust cover to protect the motor and electronics from wool fibers and residue. The new tool is designed to distribute more of its weight over the pad, providing natural pressure on the surface area and more ..... P/N 12-05661 ..... ---

POLYGONE 310-AG

PolyGone™ stripping agents are unique formulations that remove polysulfide (PRC) and silicone RTV sealants from metal, ceramic, and some plastic substrates. The top polysulfide producers include PRC DeSoto (now PPG), AC Tech, and Flamemaster. The top silicone producers are GE, Dow, and Wacker. Both polysulfide (polysulphide) and silicone RTV are difficult to remove completely since they actually bond into surface/substrate. The typically, sealant removal method requires scraping that results in damaging the substrate. There are also products that try to "dissolve" the sealants but due to their inertness, this does not work. PolyGone however, reacts with the polymers chemically and breaks them down so they can be rinsed away without damage to the surface/substrate. This offers significant advantages over other removal methods. PolyGone emulsifiers are specialty blended chemistries that wet and penetrate the polymer and relatively quickly emulsify it. This emulsification prevents redeposition of the reaction by-products and allow for water rinsing (except PolyGone 535 which requires an alcohol rinse). The polysulfide (polysulphide) sealant remover is also available as a gel for use in vertical, inverted and non-immersion applications. PolyGone is effective at removing silicone RTV and polysulfide (polysulphide) sealants at room temperature, are fast acting and environmentally friendly as opposed to regularly used solvents. PolyGone is currently being used by several MRO organizations as a sealant remover.

6 oz. ..... P/N 09-03492 ..... ---
Gallon ..... P/N 09-03491 ..... ---
5 lb. Tub ..... P/N 09-03493 ..... ---

POLYWIPES

RPM Technology is proud to introduce a revolutionary product for anyone using sealants, mastics, adhesives, silicones, paints, drilling oils, or greases. PolyWipes contain no solvents or abrasives; no fuss, and no mess! Why clean your hands with a product that has a NFPA heath rating of 1 and is flammable? PolyWipes have a health rating of 0 and are NOT flammable! They safely remove uncured or partly-cured adhesives and sealants by breaking the surface tension between the material and the substrate. The material then transfers to the wipe for disposal. Can be used anywhere adhesives or sealants are applied. To clean up after applying sealant to fuel tanks, access doors, windshields, and any other location where sealants are used. Biodegradable – a "green" product, Non-Toxic – eliminates the need to dispose of hazardous solvents, Not flammable, unlike other wipes, Mild – employees may not need hand protection to use this product, NFPA rating is 0,0,0, Inexpensive – less expensive than cloth towels and solvents.

Small box (25 wipes) ..... P/N 09-02447 ..... ---
Large Box (150 Wipes) ..... P/N 09-02448 ..... ---

EOX AIRCRAFT CLEANER

eOx Aircraft Cleaner (AC) is a specialty product for the aviation industry. eOx AC is suitable for external and internal cleaning of virtually all metal and/or painted surfaces. Completely removes difficult substances such as hydraulic oil, grease, carbon, brake dust, "blue stains", and dirt safely and easily. Removes chemicals and dirt from the grain of the paint thus making it look new and extending its useful life. eOx AC conforms to Boeing D6-17487, Douglas CSD #1, AMS 1525B and AMS 155A. Non-toxic, Non-flammable, Non-hazardous - Not subject to dangerous goods regulations., No phosphates, acids or silicones High biodegradability (tested by the University of Ghent, Belgium), Very economical to use., Contains no phosphates, acids, silicones and is non-butyl., Safe to use on all surfaces including metal, plastic & rubber materials with no stock loss., Fast, intense cleaning action surpasses other cleaners' performance., Cleaned surfaces become slightly antistatic and corrosion inhibitive for up to 4 weeks., Can be effective used as a spray-on & wipe-off process., Safe for use in high-pressure washers, immersion systems and ultrasonic machines., Fresh smell – NOT citrus.

Quart ..... P/N 09-02449 ..... ---
Gallon ..... P/N 09-02451 ..... ---

EOX AIRCRAFT HYDRAULIC FLUID REMOVER

eOx Aircraft Hydraulic Fluid Remover (AHFR) is a proprietary cleaner designed to easily remove all hydraulic fluids, baked on carbon, and corrosion protecting compounds. An excellent replacement for chlorinated products and solvent based cleaners. Meets AMS–1526B. Application: specially developed to remove sticky hydraulic oil deposits from the aircraft fuselage, wheel wells, landing gear, wings, and any area or part where hydraulic fluid accumulates. eOx AHFR also removes numerous oils, greases and stubborn carbon deposits; especially from around engine exhaust areas. Ready to use and intended as a spot cleaner on the aircraft. Non-toxic, Non-flammable, Non-hazardous - Not subject to dangerous goods regulations. No phosphates, acids or silicones, High biodegradability (tested by the University of Ghent, Belgium) Neutral pH of 6-8, Very economical to use. Contains no phosphates, acids, silicones and is non-butyl. Fast, intense cleaning action surpasses other cleaners' performance. Can be effective used as a spray-on & wipe-off process. Safe for use in high-pressure washers, immersion systems and ultrasonic machines. Fresh smell – NOT citrus

Quart ..... P/N 09-02452 ..... ---
Gallon ..... P/N 09-02453 ..... ---

DIGESIL NC GEL

Digesil NC de-polymerizes uncured and cured silicone elastomers, resins, oils, and greases from components, surfaces, tools, electronics and process equipment used in engineering, construction, and glazing industries. Digesil NC is effective and fast working. It has a high flash point for safety and contains less than 0.2% aromatics.

Benefits: Quickly dissolves cured silicone, Leaves a silicone free surface, Chlorinated and fluorinated solvent free, Negligible aromatic solvent content, Environmentally responsible, Low odor for operator comfort, High flash point for safety, Low density for ease of handling, Rinses with water or solvent, Safe on glass, metal, and most plastic (except nylon), Safe on paint and powder coating, Water free.

Specifications: Appearance: Liquid, Color: Brown, Odor: Aliphatic-hydrocarbon, Sp.Gr.: 0.82

6 oz. ..... P/N 09-02454 ..... ---
5 lb. ..... P/N 09-02455 ..... ---
1 Gallon ..... P/N 09-02456 ..... ---

DIGESIL NCX

Digesil NC de-polymerizes uncured and cured silicone elastomers, resins, oils, and greases from components, surfaces, tools, electronics and process equipment used in engineering, construction, and glazing industries. Digesil NC is effective and fast working. It has a high flash point for safety and contains less than 0.2% aromatics.

Benefits: Quickly dissolves cured silicone, Leaves a silicone free surface, Chlorinated and fluorinated solvent free, Negligible aromatic solvent content, Environmentally responsible, Low odor for operator comfort, High flash point for safety, Low density for ease of handling, Rinses with water or solvent, Safe on glass, metal, and most plastic (except nylon), Safe on paint and powder coating, Water free

Specifications: Appearance: Liquid, Color: Brown, Odor: Aliphatic-hydrocarbon, Sp.Gr.: 0.82

Gallon ..... P/N 09-02457 ..... ---

POLYSCRAPER KIT

PolyScrapers are offered in a convenient Red Canvas Pouch with black trim. The kit contains 10 Polyscrapers, each having its own pocket. Pouch can be rolled and secured with black tie.The PolyScraper Kit comes with multiple tips for various sealant removal situations. There is a forked blade, a unique push/pull design, a wide blade, a .25" narrow blade, and a straight blade ..... P/N 09-02458 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CLEANERS & DEGREASERS

OIL EATER® ORIGINAL CLEANER/DEGREASER

Oil Eater® Cleaner & Degreaser is a safe, strong, biodegradable formula designed to provide excellent performance and superior value. This cleaner degreaser serves as a multi-use cleaning solution to remove even the toughest soil, grease and grime. Our potent formula is highly concentrated, alkaline-based and not harmful to the environment.

32 oz. Trigger Spray Bottle.....P/N 09-06390 ..... ---
1 Gallon Concentrate.....P/N 09-06391 ..... ---

OIL EATER® ALL-PURPOSE FOAMING CLEANER

Oil Eater® All-Purpose Multi-Surface Cleaner is safe to use on a wide variety of surfaces throughout your home or shop. Our degreaser formula has special foaming agents that loosen and remove grease, grime and dirt on any hard surface. It is also a fast and easy way to clean your car interior by removing dirt, oil, grease and other stubborn stains from your dashboards, consoles, steering wheel and more.

20oz. Aerosol.....P/N 09-06396 ..... ---

OIL EATER® ORANGE CLEANER/DEGREASER

Oil Eater® Orange Cleaner and degreaser is a highly concentrated, water-based alkaline citrus degreaser cleaner. This hard-working orange solvent penetrates and dissolves soil, grease and grime of all types and leaves behind a refreshing orange scent! Oil Eater® products were founded on the concept of environmental safety and responsibility.

32 oz. Trigger Spray Bottle.....P/N 09-06392 ..... ---
1 Gallon Concentrate.....P/N 09-06393 ..... ---

OIL EATER® OVERNIGHT STAIN REMOVER FOR CONCRETE

Overnight Stain Remover is an all-new, award-winning product designed to remove oil & grease stains from porous surfaces like concrete driveways and garage floors. This product uses oil-eating microbes to clean deep beneath the surface, removing oil stains at the molecular level. Oil Eater's team of experts designed this oil stain remover to safely & effectively use at home or work - just 3 effortless steps: apply, allow it to dry to a powder, and then sweep away the powder for a stain-free surface! Older stains that have bonded with concrete or pavers may not be possible to restore fully, but product should help minimize appearance of oil stains as much as science allows. 32 oz. Bottle Concentrate ..... P/N 09-06394 ..... ---
5 Gallon Concentrate ..... P/N 09-06395 ..... ---

OIL EATER® ALL PURPOSE & FLOOR CLEANER

Oil Eater® Floor Cleaner is a highly concentrated, alkaline based powdered cleaner designed specifically to be versatile and powerful. Just add one or two pouches to your mop bucket and you are ready to clean. Our controlled portions save you money and ensure that the right amount of cleaner is used every time. .

1.5oz. 100 Pack.....P/N 09-06397 ..... ---

OIL EATER® ABSORBENT DRUM TOP PAD

Works great absorbing: Oil drips, Water drips Chemical drips, And more!.....P/N 09-06401 ..... ---

OIL EATER® TUFF RUG

The ultimate in long wearing durability, Oil Eater® Tuff Rug has the strength and absorbency needed for high traffic areas including forklift aisles, oil change pits and walkways. Made of 100% recycled materials, they are underside fused through a heat and pressure process to produce a high level of absorbency while also retaining the tear resistance required.....P/N 09-06400 ..... ---

OIL EATER® MEDIUM ABSORBENT PADS AND ROLLS

Oil Eater® Sonic Bonded Pads and Rolls are the economic solution for the widest variety of spill control and clean up situations. All of our sonic bonded absorbent pads and rolls are constructed from a single layer of highquality uniform polypropylene fibers that have been bonded together using our unique High-Loft process. This material provides both superior strength and reduced lint. Oil Eater® Universal Sonic Bonded Pads and Rolls are available in light, medium, and heavy weights.

15 X 8 Pad .....P/N 09-06398 ..... ---
30 x 150 Roll .....P/N 09-06399 ..... ---

BRILLIANIZE

Brillianize makes shiny surfaces brilliant. The cleaned surface resists finger marking, has anti-static properties, repels dust. It is a nonflammable and nontoxic liquid. Use it to clean Plexiglas, Lexan, mirrors, chrome - any shiny surface. Apply and polish with Kleenmaster shop towels.

Features: • Anti-Static • Alcohol and Ammonia Free • Cleans • Polishes • Protects • Made in the U.S.A.

8 oz. Spray Bottle .....P/N 09-24000 ..... ---
#128P -1 gal. Plastic Bottle .....P/N 09-24100 ..... ---
32 oz. Trigger Spray Bottle.....P/N 09-05743 ..... ---

BRILLIANIZE PLASTIC AND GLASS DELUXE CLEANING KIT

Brillianize everything you need to clean, protect and shine all hard shiny surfaces. Brillianize unique cleaning fluid contains no alcohol or ammonia, it's safe to use around children and pets! Brillianize leaves an anti-static, fingerprint resistant finish so you don't have to clean as often.

Brillianize microfiber towels are made with ultra fine 0.1 denier fibers.

Deluxe Kit with Microsuede Cloth (Gray).....P/N 09-05745 ..... ---
Deluxe Kit with Microfiber Cloth (Black) .....P/N 09-05744 ..... ---

BRILLIANIZE INSTANT DETAILER KIT

Brillianize everything you need to clean, protect and shine all hard shiny surfaces. The perfect solution for cleaning on the go. The Instant Detailer is a self contained cleaning kit, perfect for touch-ups on your laptop, GPS navigation system or any hard shiny surface.

Brillianize microfiber towels are made with ultra fine 0.1 denier fibers .....P/N 09-05746 ..... ---

BRILLIANIZE INSTANT DETAILER WIPES

Brillianize everything you need to clean, protect and shine all hard shiny surfaces. The perfect solution for cleaning on the go. The Instant Detailer is a self contained cleaning kit, perfect for touch-ups on your laptop, GPS navigation system or any hard shiny surface ... P/N 09-05747.....

ZI-400 ANTI CORROSIVE AIRCRAFT CLEANER

Zi-400 is restricted & not available for purchase or delivery to: Australia, New Zealand and those surrounding territories known as "Oceania", U.S. territories and other territories ok. Aircraft Cleaning Compound and highly specialized anti-corrosive industrial cleaning chemical. ZI-400 has been approved for use on Space Shuttles and is highly regarded in other aerospace applications as well. ZI-400 has multiple commercial approvals on file for a wide range of industrial applications. It has also been found that continual usage of Zi-400 on airframes can have a positive, long term effect on painted surfaces as well as the substrate. The recommended dilution ratio for Zi-400 is 1 part product to 30 parts water. 5 Gallons .....P/N 09-04637 .....

X-IT AIRCRAFT WASH CLEANER

X-IT® Aerospace Cleaners are non-toxic, non-corrosive, non-hazardous, odorless, aqueous-based cleaners and degreasers powerful enough for difficult applications, but safe enough for routine cleaning and maintenance. Designed for use on all surfaces(rubber, plastic, metal, painted or unpainted), X-IT® Aerospace Cleaners quickly remove unwanted carbon, dirt, grease, grime and oil.

55 Gallons .....P/N 09-05547 ..... ---

CS

AIRCRAFT CLEANING PRODUCTS

COMPOSICLEAN SUPER SPRAY-WAX

Super Spray-Wax™ is neutral pH and SAFE on all aircraft. Will not attack composite components or assist corrosions. With real Carnauba wax and other cleaning and conditioning additives, this product is sure to satisfy. Provides a great shine and superior protection. Try it with one of our MicroFiber cloths. 1 Quart with commercial quality trigger sprayer. P/N 13-05255 ..... ---

VELOCITY VISIONS ALUMINUM CLEANER

Cleans and brightens aluminum in one easy step. It is formulated with specific surfactants and active agents that penetrate tough grime, oxidation and dirt while leaving behind a clean slip-free surface. It can be used on aluminum boat hulls, true chrome, building scaffolding, ladders, trailers, diamond plate, and much more. No prep work required. Simply apply, wipe and rise off.

32 Ounces.....P/N 09-05298 ..... ---
1 Gallon.....P/N 09-05299 ..... ---

QUICKTURN

Quick Turn keeps aircraft looking just waxed. Will remove harmful contaminants before they damage aircraft surfaces. Use Quick Turn between flights or as often as needed when wet washing or waxing is not required. Product is safe for use on exterior painted surfaces, polished aluminum and de-ice boots. Not intended for interior use. .....P/N 09-02657 ..... ---

CS

MIRANDY CLEANING PRODUCTS

Mirandy produces an extensive line of aircraft cleaning products including aircraft wash and wax, deodorants, disinfectants, window cleaners, upholstery cleaners, stain removers, and degreasers that are used by Boeing, Embraer, and other major aircraft manufacturers. See our website at www.aircraftspruce.com for a complete listing of Mirandy products.

MIRANDY AIR BRITE CONE HOLDER

The Air Brite Cone Holder securely holds the time released odor control that destroys malodors automatically securely in place. Note: Air Brite Cones sold separately.....P/N 09-06418 ..... ---

MIRANDY CONDITION

Condition is a colorless cleaner which is free rinsing and non-film forming. It has excellent cleaning action in any type of water condition and will not cause streaking or dulling. The Butyl "type" All Purpose Cleaner is non-corrosive. It is a concentrated all purpose hard surface cleaner, inhibited against soft metal attack, and less harsh to hands and skin than caustic degreasers. (USDA registered) 1 Gallon
P/N 09-06388 ..... ---

MIRANDY FORMULA 12 PLUS

Formula 12+ is a de-rubberizing compound that attacks rubber marks on all flooring surfaces including concrete. It is used successfully at airports to remove tire marks form concrete landing strips, warehouses with truck lifts. Not only is this product extremely effective, but it also non-odorous. 1 Gallon
P/N 09-06389 ..... ---

COMPOSICLEAN MICROFIBER CLOTH

MicroFiber is a man-made product that consists of two fibers, Polyester and Polymide. The Polyester is the scrubbing and cleaning fiber, while the Polymide is the absorbing and quick drying fiber. Each square inch in a MicroFiber towel contains approximately 90,000 MicroFibers. MicroFiber is a lint free, non-abrasive, and hypoallergenic products. MicroFiber cloths along with Composiclean™ Super Spray-Wax™ will provide a great streak free deep shine even in direct sun. When buffing off Super Spray-Wax™, it is best to NOT let cloth get to saturated, dryer is better. Try a MicroFiber cloth with Composiclean™ View Polish™ for streak-free window cleaning.....P/N 13-05259 ..... ---

COMPOSICLEAN SOLAR SCREEN

This is a Composiclean™ Solar-Screen™ statically attached to the inside of a window looking right into the sun. Comes in 6" x 9" and 8.5" x 11". Great for airplanes, cars, boats, RV's and can be cut to fit inside motorcycle & ski helmets too.

6x9 .....P/N 13-05263 ..... ---
8.5x11 .....P/N 13-05262 ..... ---

CARPET SPOTTER PLUS

This extra-strength, water-based, universal spot & stain remover is a fast acting spotter reinforced with surfactants and wetting agents that immediately remove most spots. The forceful spray and non-foaming formula quickly penetrate for fast spot removal. Upright valve for fast, forceful penetration. Ideal as a pre-spotter prior to carpet extraction. Use to remove spots caused by: Ink, grease, oil, coffee, pets, cola, shoe, polish, lipstick, etc. 20oz aerosol...P/N 09-04699 ..... ---

AIRCARE INTERIOR CARE KIT

This AirCare Interior Care Kit features four remarkable interior cleaners, micro fiber towels, Purell Hand Sanitizer and complete with an insulated carrying case. Whether your maintenance needs include one aircraft or an entire fleet, you will find the AirCare Interior Care Kit is an essential part of any aircraft cleaning strategy. Includes: • 24- Bioclean Wipes • 24- Glass Wipes • 24- Wood Wipes • 24- Leather Wipes • 2- Bottles Of Purell Hand Sanitizer • 5- Micro Fiber Towels • 1- 24oz Bottle Of Exterior Wash.
P/N 13-18747 ..... ---

JET STREAM ULTRA MAGNUM AIRCRAFT CLEANER & DEGREASER

Ultra-Magnum is a non corrosive heavy duty alkaline cleaner with built in buffers for additional safety. Formulated to rapidly dissolve carbon, bugs, and oil from the exteriors of aircraft. Has been designed with built in rinsing agents when wet washing. If dry washing an aircraft just spray on and wipe clean, no rinse necessary!

1 Gallon.....P/N 09-05696 ..... ---
5 Gallon Pail.....P/N 09-05697 ..... ---

CLEAN WING SCRUBBER KIT

The CleanWing Scrubber is designed to make cleaning your aircraft EASIER than before. Utilizing a curved frame with sturdy handle, you're able to reach MORE SURFACE AREA at one time than the traditional sponge. The CleanWing Scrubber's handle allows you to exert the needed pressure to effectively clean the leading edges of your aircraft removing all the bugs after each flight, quickly and easily.
The CleanWing Scrubber utilizes the BOSS Aircraft Cleaning Pad, attaching quickly to the curved frame of the handle. The BOSS Aircraft Cleaning Pad is paint-safe cleaning product that will quickly and easily remove all those bugs.

In The Box: • 1 - Clean Wing Scrubber (Handle) • 2 - BOSS Cleaning Pads • 2 - Microfiber Cloths.....P/N 09-05762 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AEROCOAT AIRCRAFT POLISH KIT

Not only does Aerocoat dramatically reduce aircraft cleaning time for pilots and increase flying speed performance but its glass like finish ensures maximum asset protection for owners, restoring old and tired looking paintwork that cannot be penetrated by the elements. The hydrophobic technology provides a hard wearing scratch resistance coat that converts a previously amorphous surface into a super smooth finish that cannot be penetrated by the elements. Aerocoat has been tested in the Arizona desert and is second to none when it comes to UV protection.

P/N 09-05361 ..... ---

WAX AS-U-DRY

After washing your aircraft leave it wet, then spray Wax-As-U-DRY on the surface. After the water sheets away, you dry the surface with a chamois towel. The result is high gloss shine without spending the afternoon buffing. A one step spray wax is a blend of water reactive polymers and waxes that are safe for all painted surfaces, windows, trim & wheels.

P/N 09-00370 ..... ---

CITRUS CLEANER #609

Can be used safely on many surfaces to remove adhesives, grease, inks, and residue from various tapes. Environmentally safe, biodegradable and pleasantly scented.

P/N 09-42656..... ---

V & S DRY SILICONE SPRAY

Exceptionally high quality dry silicone lubricant that stops adhesion of urethane foam backings, foam rubber and other non-sliding materials to metal, wood or rubber. Non-staining, will not harm painted surfaces.....P/N 09-42654 .....

SUPER TRIM ADHESIVE #1081

A high temp high strength contact type adhesive. Bonds metal, foam, decorative laminates, fabrics, headliners. Variable width spray pattern. Meets Fed. Spec. MMM-A-130B.

P/N 09-42652..... ---

V&S #581 FOAM & FABRIC SPRAY ADHESIVE

V&S 581 Foam & Fabric Spray Adhesive is specially formulated for bonding flexible urethane or latex foams to themselves or most other material (wood, metal, paper, corrugated, fabrics, etc.) Produces bonds with foam-tearing strength.

P/N 09-42650 ..... ---

TOUGHGUARD-AERO® EXTERIOR PAINT PROTECTION KITS

Toughguard's Aviation™ Nano Paint Coating Product is known for protecting some of the world's most recognizable and prized military, commercial, corporate and private aircrafts. Toughguard's™ Nano paint coating has met or exceeded industry specifications and proved to be a reliable, safe product that can be counted on in a wide variety of applications. Test results have proven durability and performance levels and have concluded that aircraft protected with Toughguard™ will have a greater resistance to the buildup of harmful environmental elements such as; rain erosion, UV damage, soot and carbon buildup, pollutant & chemical damage and bird/insect residues. Toughguard's™ distinct advantage comes from the exclusive proprietary formulations that are truly unique in composition, validated by laboratory tests and satisfied customers who have come to rely on and expect the consistent and dependable durability that has become synonymous with Toughguard™.

Small Kit .....P/N 09-05757 ..... ---
Medium Kit.....P/N 09-05758 ..... ---
Large Kit .....P/N 09-05759 ..... ---

HYDRASOLVE

Hydrasolve is a thickened, heavy duty, water soluble gel degreaser formulated for efficiency and performance in a broad range of cleaning and degreasing applications. It will easily and safely remove carbon exhaust, exhaust tracks, hydraulic fluid, thrust reversers, soot areas, oil & bugs. Hydrasolve is a gel product that clings to the surface being cleaned and has the ability to rinse spot free. Meets Boeing & McDonnell Douglas approvals.

1 Gallons .....P/N 09-00528 ..... ---
5 Gallon Pail .....P/N 09-00529 ..... ---

AERO-600 AVIONICS CLEANER

The secret formula used in the film and photography industry, is now available for the aviation community! Eliminate fingerprints, streaks, dust, dirt, oils, from your avionics, glass cockpit screens, electronic flight bags, GPS screens, Laptop, and plasma screens. Aero 600™ tested for well over three years by professionals in the aviation industry with outstanding results. It's designed to have industrial strength; be powerful, yet mild and gentle to your screens. "We keep a bottle in the side pocket of our corporate aircraft and have been using it exclusively to clean our instruments, laptop screens and even our eyeglasses. It never streaks and helps keep the dust at a minimum."Nina Anderson, Hawker pilot. Aero 600™ is also safe for use on Laptop & TFT LCD screens, LCD, Plasma & Projection TVs (LCD and Projection screens have a soft membrane in place of glass which can easily be degraded by harsh chemicals. Plasma screens have a thin delicate protective coating which also can be damaged ..... P/N 09-02040 ..... ---

SAFETY WASH

Safety Wash is a mild neutral PH water based exterior wash & wax concentrate designed to be gentle on your aircraft. It provides detergency and built-in easy rinse characteristics that will enhance gloss and eliminate the risk of streaking. Formulated for general routing washing of aircraft. Meets Boeing & McDonnell Douglas approvals. Safety Wash is NOT designed to clean heavily soiled areas.

1 Gallon .....P/N 09-00526 ..... ---
5 Gallon Pail .....P/N 09-00527 ..... ---

EAGLE ONE A2Z ALL WHEEL & TIRE CLEANER

Any wheel, any tire. Nothing cleans better. The Eagle One A2Z Wheel & Tire Cleaner features a powerful 2-in-1 formula. It clings to the surface of ANY wheel or tire to safely and easily remove brake dust, grime and grease. Manufacturer Recommended. The thick acid-free foam is safe for any type of wheel, hubcap or tire, making for a risk-free clean. No Scrub Formula. Alkaline builders pull dirt and grime from the surface of wheels and tires, breaking up tough deposits without agitation..... P/N 10-04938 ..... ---

ALUMINUM DEOXIDIZER

Want a product that really takes the elbow grease out of polishing? This is a very Hi-Tech chemical designed to clean and deoxidize all metal surfaces without streaking, hazing, burning or damaging the surfaces. Removes scale, road film, most acid stains and even rust on Chrome! It is the easiest and safest way to prep the metal before polishing. It really works great! Can be used with most cream type polishes. If your aluminum has a milky look to it even after being polished, try this Aluminum Deoxidizer before polishing, you will achieve a Crystal Clear Shine. P/N 09-02859 ..... ---

PURPLE METAL POLISH

Purple Metal Polish is in a class of its own. This is truly a no-rub metal polish. When you see just how easy it actually is to polish aluminum, chrome, brass and even plastic, you will be totally amazed. Specially formulated for easability, durability and a super high quality shine. It is a super quick and easy maintenance product. Purple Metal Polish contains a superior abrasive along with Hi-tech cleaners and sealers to safely clean, shine and protect all metal surfaces without scratching! Also removes scratches from acrylic windshields.....P/N 09-02860 ..... ---

AEROSPACE PROTECTANT

The World's most effective UV-screening product. AAP leaves a like-new, non-oily, anti-static finish that does not attract dust. Protected surfaces not only last much, much longer, but are easier to maintain. AAP treated surfaces repel soiling and stains, clean up easier and stay clean longer. 100% prevention of UV caused slow-fade - Plastics, Plexiglass, Lexan, Door Seals, Wing and Prop De-icing Boots, Tires, Vinyl & Leather Interiors.

2 oz.....P/N 09-02414 ..... ---

CS

WIPES – CLEANERS

AIRCRAFT GRADE MICROFIBER WASH MITT

The Aircraft Wash Mitt is made from two of the softest materials available - Chenille and Microfiber. It's an absorbent, super soft, and non-scratching mitt that delivers an amazing wash like no other! The expanded surface area of the Chenille fibers allows the mitt to stay cleaner 3x longer than any other wash mitt. Clean without worry because this product delivers a premium wash without abrasion. It is safe on all acrylic aircraft or marine windscreens and polycarbonate windows. Also great for custom or collector automotive paint finishes. The mitt can be laundered and re-used for many years!..P/N 09-04087 ..... ---

MICROFIBER APPLICATOR PAD

Durable foam applicator encased in a soft plush microfiber to gently and evenly apply waxes, polishes, protectants and dressings to any surface. 2-Pack: 4.50" Diameter.....P/N 09-04518 ..... ---

TERRY APPLICATOR PAD

Durable foam applicator pad, encased in a soft terry knit, gently and evenly applies wax, polish and protectant safely to any surface.
12-Pack: 4.50" Dia .....P/N 09-04519 ..... ---

ECT CHEMWIPE BUCKET WIPES DISPENSING SYSTEM

A disposable wipes and bucket cleaning system that allows end-users to add their own chemical to create a custom pre-moistened wipe. The MIGHTYWIPE® material, made from a cellulose and synthetic base, has excellent strength and absorbency with low lint properties, providing an ideal material for heavy-duty cleaning, wiping, degreasing and surface prep.

Specifications: • System Includes 1 Bucket & 6 Rolls of 180 6″x12″ Sheets • Easily add your own disinfecting/alcohol-based chemical to create pre-moistened wipes • MIGHTYWIPE® material has excellent strength and absorbency, making it ideal for heavy-duty cleaning, wiping, degreasing, and surface prep.....P/N 09-05855 ..... ---

WOODEN COTTON SWABS

Cotton swabs with 6" wooden sticks- ONLY Boeing approved swab in the industry- Ideal for small paint touch up; applying or removing sealants; cleaning around tight corners or removing dust around avionics. Cotton tip will hold up to the harshest solvents.
100 per zip lock bag .....P/N 09-04577 ..... ---

BOSS AIRCRAFT CLEANING PAD

The BOSS Aircraft Cleaning Pad is the most advanced aircraft cleaning pad available. The BOSS Aircraft Cleaning Pad will safely clean bugs, carbon, fuel residues, dirt, grime, etc., from all your aircraft surfaces, leaving your plane the cleanest it's ever been or your money back.
Aircraft Cleaning Pad.....P/N 09-03474 ..... ---
Aircraft Pad Holder (flat) .....P/N 09-03475 ..... ---
Aircraft Pad Holder (curved) .....P/N 09-03476 ..... ---

STRUTWIPE HYDRAULIC WIPE MIL-PRF-5606

This wipe is an excellent choice for cleaning chrome piston cylinders and struts. The wipe is presaturated with top of the line hydraulic fluid: MIL-PRF-5606. It is lint and static free, made of 100% cotton cloth woven and finished without starch, binders, or any foreign substances.
6" by 6".....P/N 09-02668 ..... ---
9" by 9".....P/N 09-05792 ..... ---

STRUTWIPE HYDRAULIC WIPE MIL-PRF-83282

This wipe is an excellent choice for cleaning chrome piston cylinders and struts. The wipe is presaturated with top of the line hydraulic fluid: MIL-PRF-83282. It is lint and static free, made of 100% cotton cloth woven and finished without starch, binders, or any foreign substances. The cloth finish gives this wipe a softer and better dirt-trapping capacity and has incredible retention to minimize fluid drip.
6" by 6".....P/N 09-02669 ..... ---

WORX INDUSTRIAL WIPES

- 70ct High powered pre-moistened multipurpose cleaner
- Automotive, industrial, manufacturing, construction
- Natural oils and emollients, safe for hands and skin
- Durable non-scratching fabric for maximum cleaning
- Simple to use - just wipe down surface and dispose

P/N 09-02604 ..... ---

RYMPLECLOTH PURIFIED WIPING CLOTH

#301 Purified Rymplecloth® 100% woven cotton rolls low lint-3-ply- 100 pre-cut pcs/roll- Preferred wiping cloth in the aircraft industry - Per Boeing 15-5G/ AMS3819-Absorbs 24X its own weight. Holds up to most harsh solvents with no breaking down of fibers.
10"x16" Roll .....P/N 09-04573 ..... ---

PUREWIPE®

Purewipe WP-100-#992128- 12"x13"-1/4" folds - Per Boeing 15-5G/AMS3819 - For all critical polishing and wiping in paint preparation; composites; metal bonding-55% / 45% Polyester / Cellulose. Very low lint; silicone free; Non abrasive-no binding material/ chemically pure-very strong material and can be used on smoother surfaces and rougher surfaces with less chance of snagging or bunching up. Holds up to the harshest solvents. 100 wipes per bag.
P/N 09-04576 ..... ---

C-60 WHITE COTTON TACK CLOTH

When a clean, contaminant-free surface is a must, aerospace certified base material, including high-quality fabrics and proprietary tack materials are widely acknowledged to be the best choice on the market. It all starts with biodegradable, low lint cotton or polyester gauze, incorporates the unique tack formulations and curing process and ends, as it should, with a perfect finish for your most critical applications. **Specifications**: • Dimensions: 18 x 9 • Color: White • Fabric: Cotton.....P/N 09-06236 ..... ---

BOEING APPROVED TACK POLYESTER CLOTH

When a clean, contaminant-free surface is a must, the AMS/BMS certified base material, including high-quality fabrics and proprietary tack materials, are widely acknowledged to be the best choice on the market. It all starts with biodegradable, low lint cotton or polyester gauze, incorporates the unique tack formulations and curing process and ends, as it should, with a perfect finish for your most critical applications. C-60 Tack Polyester Cloth Boeing Approved White is long lasting, leaves no residue, and does the job right the first time.....P/N 09-05639 ..... ---

BOEING APPROVED AEROTEX™ BLEACHED WIPING CLOTH

Virtually identical to Rymplecloth®, this aerospace wiper is bleached white. This whiter cloth is preferred by some end-users for critical cleaning and polishing processes. Ideal for general use whenever a wiping or polishing cloth is needed.
10"x16" Roll.....P/N 09-04593 ..... ---

BOEING APPROVED CHEESECLOTH 4-PLY

Cheesecloth- 100% woven cotton 4-ply- 128 pre-cut pieces per roll- 24" cut pieces- Per Boeing 15-5G/ AMS3819- Ideal for all critical wiping non abrasive. Cleaning and polishing aircraft windows; painting preparation; composites; metal bonding. Holds up to most harsh solvents with no breaking down of fibers. Certified silicone free. Cotton absorbs 24X its own weight. Very low lint. Wiping down all smoother surfaces.
P/N 09-04599 ..... ---

PS WORKPLACE HAND CLEANER TOWEL

• Uniformly premoistened towel • Superior terpene blend • Deep cleaning, non-scratching abra sives quickly remove embedded dirt and grime • Fast acting • Disposable • Eliminates the need for soap, water and a sink • Improves workplace productivity by reducing costly clean-up time • Does not require water • Easy to carry and store • Convenient • Bucket of 72 Towels
P/N 09-02546 ..... ---

FLOOR AND ALL PURPOSE CLEANER

This pre-measured 1.5 Oz Floor & All Purpose Cleaner is Concentrated, Non-Corrosive, and Biodegradable. The superior quality of this product is proven better, use one pouch per mop bucket, it is safe on all surfaces, it won't dull high gloss finishes, and helps keep floors safe .....P/N 09-04017 ..... ---

PUREWIPE® WHITE WIPERS

100% woven cotton knit/woven wiper: available in B rating or USA grade quality. Ideal for various wiping non abrasive. Cleaning and polishing. Made In USA Wipers .....P/N 09-04598 ..... ---

CS

AVL LUBRICANTS & RUST INHIBITORS

AVL LIGHT - The premium light lubricant and rust inhibitor that penetrates and displaces moisture fast, leaving a delicate coating for excellent lubrication and rust protection. A fine, light film that resists the accumulation of dust and dirt. Ideal for drying and protecting electrical connectors and delicate machinery. Can sprays upright or inverted.....P/N 09-02106 ..... ---

AVL MEDIUM - The premium medium lubricant and corrosion preventer is specifically designed to penetrate and displace moisture fast. It leaves a medium weight oily coating for long term lubrication and rust prevention. Can sprays upright or inverted. .....P/N 13-02963 ..... ---

AVL THICK - The premium thick lubricant and corrosion preventer penetrates and displaces moisture. It stops corrosion on contact leaving a thick coating for long term lubrication and corrosion prevention. Can sprays upright or inverted.....P/N 13-02964 ..... ---

AVL NO CHLOR CLEANER/DEGREASER

The powerful flushing action and a high solvency formulation makes cleaning metal parts faster and easier. Penetrates quickly into hard to reach areas, cleaning thoroughly. AVL NO CHLOR Cleaner/Degreaser does not contain any 1,1,1 Trichloroethane or any solvents or CFCs known to deplete the stratospheric ozone layer. Evaporates quickly leaving no residue. Removes oil and grease on contact. This is the best non-chlorinated degreaser we have ever produced.
14 oz. .....P/N 13-02961 ..... ---

AVL FAST ACTING CLEANER/DEGREASER II

AVL Fast Acting Cleaner/Degreaser II is a highly concentrated solvent designed to remove dirt, grease, oil and grime from metallic and non-metallic surfaces. Cleaning is quick and simple without the danger of injury to working parts. Ideally suited for use on electronic motors even while running, electronic equipment, ignition systems, generators, power tools, etc. It is non-flammable and non-conductive so it can be used while motors and equipment are operating. Cleans & degreases very fast and dries quickly leaving little residue...P/N 13-02960 ..... ---

CLEAR VIEW PLASTIC CLEANER

Clear View™ glass and plastic cleaner is safe on all plastics and glass, contains no ammonia. This foaming cleaner leaves a shiny finish with no residue. It easily removes bugs and grime from windshields and all surfaces.
15 oz. .....P/N 13-02959 ..... ---

CLEAR VIEW PLASTIC CLEANER PROTECTANT & POLISH

Bring new life to your plastics with Clear View Plastic Cleaner, Protectant & Polish. Developed to clean, protect, and polish all types of clear and colored plastics. This Clear View product works great on clear soft vinyl windows and panels such as boat enclosures and SUV soft tops, motorcycles, and more!
12 ounces.....P/N 09-00531 ..... ---

SIMPLE GREEN WELDING ANTI-SPATTER

Simple Green Anti-Spatter is the easy solution to protect your welding equipment and projects from unwanted spatter. Reduce costly, time-consuming spatter removal. Just spray Simple Green Anti-Spatter on areas to be protected from spatter: nozzles, diffusers & tips, and surfaces adjacent to weld. After welding, rinse with water and dry prior to plating or painting.
32 ounces.....P/N 09-04486 ..... ---

EXTREME SIMPLE GREEN AIRCRAFT CLEANER

Unique cleaning & anti-corrosion chemistry delivers superior performance and materials-safety all in one. Cuts through tough, built up grease, oil, dirt, pollution, insect residue & impact soils. Gets its superior cleaning from a unique "triple play" cleaning formula. 2 high performance surfactants and new generation grease lifter/cutter combine to get the soil away from the aircraft surface quickly and keep it away so it can be cleanly rinsed away. Also able to go into oil/water separators and have oil break from solution. Extreme Simple Green's safety upon aircraft materials and precision cleaning surfaces comes from a combination of proven anti-corrosion agents. Time tested coupling agent allows these to work together to battle corrosion & hydrogen embrittlement. This makes it safe to put through pressure washing equipment, rack wash systems, dip tanks & parts washers, without any equipment damage.
32 oz.....P/N 09-00809 ..... ---
Gallon .....P/N 09-00810 ..... ---
5 Gal.....P/N 09-01236 ..... ---
55 Gal. Drum .....P/N 09-01606 ..... ---

SIMPLE GREEN PRO HD CLEANER

Simple Green® Pro HD is a non-toxic, non-corrosive, professional grade product developed for multi-purpose contractor applications including use on floors, walls, industrial equipment, appliances; automotive or recreational vehicle cleaning and degreasing; commercial kitchens and baths; and for pressure washing, parts washing, ultrasonic cleaning, and more. It quickly eliminates tough grease and grime, removes stains, and is safe on metal surfaces. Simple Green Pro HD is your one-stop cleaner and degreaser!.....P/N 09-02399 ..... ---

CRYSTAL SIMPLE GREEN INDUSTRIAL CLEANER/DEGREASER

Use for equipment and machinery degreasing, parts washers and dip tanks, mechanized applicators. Non-toxic & biodegradable, non-abrasive & non-flammable.
1 Gallon .....P/N 09-01299 ..... ---

SIMPLE GREEN 4-WAY PROPORTIONER

Assures proper mixing, controls material usage costs, minimizes excessive packaging disposal, and saves time. Dispenses diluted Simple Green® concentrates in four strengths at 1 gallon per minute. Also includes six foot hose with trigger handle for bucket fill and pre-formed tube for bottle fill.....P/N 09-01304 ..... ---

SIMPLE GREEN FOAMING CRYSTAL INDUSTRIAL CLEANER/DEGREASER

Fragrance-free and color-free solution. Foaming Crystal Simple Green is non-toxic, non-abrasive, non-flammable and biodegradable. The non-corrosive formula is safe to use on metals, finishes, plastic & rubber. The fragrance-free and color-free solution is clean rinsing making it ideal for critical cleaning applications across a variety of industries.
P/N 09-01305.....---

SIMPLE GREEN CONCENTRATED CLEANER/DEGREASER DEODORIZER

Clean & deodorize grease filters/traps. Safe for all washable surfaces, Simple Green can be used to remove heavy dirt, grease, food residue and stains from any washable surface including countertops, sinks, tile, carpet, flooring, upholstery and more.
24 oz. (Trigger Spray).....P/N 09-01306 ..... ---
1 Gallon .....P/N 09-01307 ..... ---

SIMPLE GREEN LIME SCALE REMOVER INDUSTRIAL/ INSTITUTIONAL DESCALER

Dissolves soap scum & mineral deposits. Deodorizes-contains no bleach, ammonia or phosphorus. Non-abrasive & non-flammable.
Spray.....P/N 09-01308 ..... ---
Bottle.....P/N 09-01309 ..... ---

CS

CSI RELEASE® - DIRT / GREASE / GRIME ALL SURFACE WIPES

RELEASE® is a multi-surface, multi-task, non-corrosive cleaner, and degreaser formulated for rapid penetration and removal of dirt, grease, grime, and oil. It emulsifies grease and oil while associating carbon deposits into the solution. Removes mold and heel marks and scum on virtually any surface. Meets both interior and exterior Boeing, Douglas and AMS specifications. Single use individual wipe, great for spot cleaning and post flight leading edge wipedowns.

Single .....P/N 09-05667 ..... ---
Case of 250 .....P/N 09-05667-1 ..... ---

CSI RELEASE® - DIRT / GREASE / GRIME OIL CLEANER

RELEASE® is a concentrated non-solvent base product that is formulated for rapid penetration and removal of dirt, grease, grime, and oil. It emulsifies grease, oil, carbon, mold, heel marks and scum on virtually any surface. Meets Boeing, Douglas and AMS specifications.

Single - 32 Oz.....P/N 09-05664 ..... ---
Case of 4 - 32 Oz .....P/N 09-05664-1 ..... ---

CSI RELEASE® - ULTRA

RELEASE® ULTRA is a concentrated non-solvent base product that is formulated for rapid penetration and removal of dirt, grease, grime, and oil. It emulsifies grease, oil, carbon, mold, heel marks and scum on virtually any surface. Meets Boeing, Douglas and AMS specifications.

Single - 1 Gallon.....P/N 09-05672 ..... ---
32 Oz Dispensor .....P/N 09-05666 ..... ---
Case of 4 - 1 Gallon .....P/N 09-05672-1 ..... ---

CS

MACH #1 DEGREASER/CLEANER

A citrus scented degreaser and cleaner designed for the aircraft industry. This surface degreaser is non-irritating but will remove heavy encrustations. Mach #1 (formally known as Big Orange Plus)combines solvent power with an emulsifier system that removes hydraulic fluids, fuel stains, and exhaust soot. ..P/N 13-00031 ..... ---

CRAZY CLEAN ALL PURPOSE CLEANER

Crazy Clean is an all purpose cleaner which is excellent for removing fuel stains, exhaust stains, and grease and grime from your aircraft. Ideal fro removing bugs from leading edges. Crazy Clean produces a clinging foam which cleans and deodorizes and leaves a clean, not waxy surface. Keep a can in the airplane to use when travelling. Recommended by Aviation Consumer. 15 oz. aerosol can.

P/N 09-00563 ..... ---

SUNMIGHT 6 INCH NO HOLE FILM PSA FILM DISC - SANDPAPER

Sunmight Film is a premium product with strong and even surface film backing that allows better surface finish and longer life. It is also great for corner and edge sanding without problems with tearing.

Grit	Part No.	Price
20	09-04748	---
180	09-04747	---
320	09-04749	---

SUNMIGHT 6 INCH GOLD DISC SANDPAPER

Grit	Part No.	Price
80	09-05515	---
180	09-05516	---
220	09-05517	---
240	09-05518	---

SUNMIGHT WATERPROOF SANDPAPER

Sunmight Waterproof is made with quality water resistant paper backing for flexibility and outstanding finish. Special resin technology reduces possible curling problem during wet sanding operations. Features:Wet or dry sanding for all surface, Finest finishing even under wet sanding, Long durability without tearing or curling, Superior cutting for hand sanding. Specifications: Grain: Grit 220~800 Aluminum Oxide; Grit 1000~2000 Silicon Oxide, Backing: Latex Paper, Bond: Resin over Resin, Coating: Closed Coat, Grit Range: 220-2000. Sold Each.

Grit	Part No.	Price ea.
220	09-03108-1	---
280	09-03110-1	---
320	09-03111-1	---
400	09-03113-1	---
600	09-03114-1	---
1000	09-03115-1	---
1500	09-03117-1	---
2000	09-03118-1	---

SUNMIGHT 5” VELCRO DISC SANDPAPER

Sunmight Film is a premium product with strong and even surface film backing that allows better surface finish and longer life. It is also great for corner and edge sanding without problems with tearing.
Specifications: Grain: Premium Aluminum Oxide, Backing: Polyester Film, Bond: Phenolic Resin, Coating: Open Coat, Grit Range: 80-320.
Sold Each.

Grit	Part No.	Price ea.
80	09-03797-1	---
120	09-03798-1	---
220	09-03799-1	---
320	09-03801-1	---

SUNMIGHT P.S.A. GOLD DISCS

Sunmight God is a premium paper product made with high quality grain, latex paper and strong resin. This provides better performance and longer life. Features: Aluminum Oxide resin paper, Open coat, Tear resistance, Good Sharpness and longer lasting life, High performance without clogging, Excellent finish. Specifications: Grain: Premium Aluminum Oxide, Backing: Latex Paper, Bond: Phenolic Resin, Coating: Open Coat, Grit Range: 80-320. Sold Each

5” DISCS		
Grit	**Part No.**	**Price ea.**
80	09-03099-1	---
120	09-03102-1	---
220	09-03105-1	---
6” DISCS		
Grit	**Part No.**	**Price ea.**
80	09-04664	---
180	09-04662	---
220	09-04663	---
320	09-04667	---

SUNMIGHT 5” P.S.A. FILM DISC - SANDING PAPER

Sunmight Film is a premium product with strong and even surface film backing that allows better surface finish and longer life. It is also great for corner and edge sanding without problems with tearing. Features: Open coat stearated, Excellent Cutting Performance, Longer lasting life with durability, Perfect sanding surface, Especially excellent for contour sanding without folding. Specifications: Grain: Premium Aluminum Oxide, Backing: Polyester Film, Bond: Phenolic Resin, Coating: Open Coat, Grit Range: 80-320. Sold Each.

Grit	Part No.	Price ea.
80	09-03092-1	---
100	09-03093-1	---
120	09-03094-1	---
180	09-03095-1	---
220	09-03096-1	---
320	09-03098-1	---

MICROFIBER CLEANING TOWELS

These non-abrasive, super absorbent cleaning towels are excellent for cleaning plexiglass, rotors, props, and fronts of aircraft to remove bugs and dirt without fear of scratching. Microfiber needs only water to work due to it's unique construction. Used extensively on aircraft, boats, RVs, and motorcycles. Available in Terry style (16"X16", blue) and in Chamois style (16"X 24", gold).

Terry style ..... P/N 09-00272 ..... **--- ea**
Chamois style..... P/N 09-00273 ..... **--- ea**

KIMTEX SHOP TOWELS

The heavy-duty oil and solvent disposable wiper to replace cloth. Excellent for machine shop use.

Each.....P/N 09-03473 ..... ---
Pkg. of 10.....P/N 09-02996 ..... ---
Pkg. of 50.....P/N 09-02997 ..... ---

SONTARA AIRCRAFT WIPES

Tough Dupont Sontara® AC™ aircraft wipes are the smart choice for both aircraft manufacturing and maintenance. Their strength and durability make them ideal for a wide variety of general purpose & pre-paint applications. Sontara® AC™ wipes leave surfaces clean because they're extremely low-linting. Tackles tough cleaning agents without falling apart. every Sontara® AC™ is clean right out of the box. No chemical residues or stains. Sontara® is specially engineered to resist snagging on metal parts and corners. Superior to paper wipes which snag & tear. Outperforms cheesecloth which leaves strings behind when it snags on a rivet. Sontara® AC™ is great for wiping surfaces dry because it contains no additives that hamper absorbency.

9 x 16.5' Wipes (Box of 100).....P/N 09-00369 ..... ---
12" x 16.5' Wipes (Box of 250).....P/N 09-00368 ..... ---
12" x 12' Wipes (Box of 1000).....P/N 09-05787 ..... ---
12" x 13' Wipes (Box of 500).....P/N 09-05788 ..... ---
9" x 16.5' Wipes (Box of 800).....P/N 09-05812 ..... ---

DISPOSABLE MICROFIBER TOWELS

These disposable Microfiber Towels are a generous 16 x 17 inch size and are made of the highest quality, aviation-grade Microfiber. Use these scratch-free/lint-free towels with All-Spray (P/N: 09-02379) to leave your aircraft windows clean, smooth and brilliant.

Individual towel size:
10 Pack (12.5x17") .....P/N 09-02384 ..... ---
50 Pack (16x17") .....P/N 09-02376 ..... ---

AIRCRAFT MICROFIBER POLISHING CLOTH

This Polishing Cloth is an aviation grade, re-usable microfiber cloth designed to remove any residue, dust or fingerprints from aircraft windows. Can also be used to go over painted surfaces and helps restore a brilliant shine. The smaller cloth can be used on avionics and helps remove dust and fingerprints.

Large (22" x 25").....P/N 09-02380 ..... ---
Small (75" X 75") .....P/N 09-02377 ..... ---

AMERICAN FIBER & FINISHING BLACK TACK CLOTH

When a clean, contaminant-free surface is a must, our aerospace certified base material, including high-quality fabrics and proprietary tack materials, are widely acknowledged to be the best choice on the market. It all starts with biodegradable, low lint cotton or polyester gauze, incorporates our unique tack formulations and curing process and ends, as it should, with a perfect finish for your most critical applications. AF&F Chemical ClothTM Tack Cloths are as efficient as they are effective – because they're longer lasting, leave no residue, and do the job right the first time.

P/N 09-06407 ..... ---

RMT ISOPROPYL ALCOHOL WIPES

RMT's Alcohol Wipe is a pre-saturated lint-free nonwoven wipe made with 70% Isopropyl Alcohol. It is ideal for cleaning flight decks, Lavatory surfaces, tray tables, counters, screens, handles, and other touch points where fast and easy cleaning is required.

Single Canister (100 wipes).....P/N 09-05849 ..... ---
Case of 24 Canisters .....P/N 09-06459 ..... ---

PROTECT ALL POLISH

Protect-All makes everything look better - cleans and polishes in one easy step. Works on vinyl, rubber, plastics, painted surfaces, fiberglass and chrome. Use Protect-All on the entire aircraft, inside and out, including windshields.

6 oz. spray can .....09-00596 ..... ---
13.5 oz. spray.....09-24900 ..... ---

PROTECT ALL FIBERGLASS OXIDATION REMOVER & COLOR RESTORER

1-Step Application: Cleans, Polishes, Seals Removes: Oxidation, Wax build-up, Stains, Surface scratches, Hard water spots For: Fiberglass, Gelcoat, Enamel, Polyurethane painted surfaces.

32 Ounces .....P/N 09-01659 ..... ---

AVIAT 3-IN-1 AVATION DRY WASH CLEANER / POLISH / WAX

Aviat 3-1 Aviation Cleaner, Polish, Wax is just that formulated to clean, Polish and enhance the shine by easily spraying and wiping with a premium microfiber towel. It has UV protection and works great for removing bugs, smudges, spotting and light carbon buildup on exterior surfaces. Super easy for a quick impressive post flight wipe down of leading edge and engine inlet debris.

16 Ounces .....P/N 09-05250 ..... ---
1 Gallon .....P/N 09-05251 ..... ---

360 BRAZILIAN MIST WATERLESS SPRAY WASH

Brazilian Mist is a waterless wash and spray wax that covers a 3-step system. It Lifts the dust and dirt while it Washes, Waxes and Polishes all at the same time. This product could be used on most surfaces to leave them with a beautiful gloss finish without having to use any water. This waterless product safely surrounds dirt particles with just enough clean, wax, and sealant to give that effortless clean.

8 Ounces .....P/N 09-05526 ..... ---
16 Ounces .....P/N 09-05527 ..... ---
1 Gallon .....P/N 09-05528 ..... ---

360 XTREAM APPEAL INTERIOR / TIRE DRESSING

Xtream Appeal is high gloss multi-purpose dressing that could be used on tires, plastic, leather, vinyl and rubber, such as interior and engine compartments. In order for a better finish, all surfaces must be completely clean of dirt, grime, grease, and prior dress coatings. This product dries to the touch while it sill gives a long-lasting shine. Xtream Appeal can be diluted multiple times for desired finish.

8 Ounces .....P/N 09-05529 ..... ---
16 Ounces .....P/N 09-05530 ..... ---
1 Gallon .....P/N 09-05531 ..... ---

360 FOAM ALL INTERIOR / CARPET CLEANER

Foam All is an all-purpose foaming cleaner that is specialized to remove any grease, food stains, and clean any residue. This product is safe to use on carpets, upholstery, vinyl, leather and plastic. Foam all is ready to use as is applied by spray or brush method.

8 Ounces .....P/N 09-05532 ..... ---
16 Ounces .....P/N 09-05533 ..... ---
1 Gallon .....P/N 09-05534 ..... ---

360 JUNGLE MIST FRAGRANCE DEODORIZER

Jungle Mist is a water-based air fragrance that provides lasting sensory enhancing aroma when you want it just by a couple of sprays. This air fragrance is safe and effective to use on interiors such as carpets and upholstery. Jungle Mist can also be used anywhere else that can use nice deodorizing.

8 Ounces .....P/N 09-05535 ..... ---
16 Ounces .....P/N 09-05536 ..... ---
1 Gallon .....P/N 09-05537 ..... ---

FIREBOMB FRAGRANCE DEODORIZER

FIREBOMB is a water-based fragrance that provides lasting sensory enhancing aroma when you want it. It is safe and effective to use on interiors, carpets, upholstery, and everywhere else that can use deodorizing. Made in the U.S.A.

16 oz. .....P/N 14-03330 ..... ---
1 Gallon .....P/N 14-03331 ..... ---

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PPC AIRCRAFT CLEANERS

PERFECT DETAIL™ SURFACE ENHANCER

Perfect Detail™ is the nation's leading choice for producing "wet look" shine! A light mist instantly produces maximum depth of gloss and flawless glassy brilliance on clear coat, black, and all other paint finishes. It works especially well on all other non-porous surfaces (such as chrome, glass, etc.) while lightly cleaning and accenting soft surfaces such as vinyl, rubber, and leather. For engine detailing Perfect Detail™ can't be beat! Perfect Detail™ is anti-static and slippery, enabling it to resist dust, dirt, and abrasion better than any product.

18 Ounces ..... P/N 09-00165 ..... ---
1 Gallon ..... P/N 09-00166 ..... ---

BELLY WASH™ DEGREASER

Water-based BellyWash™ is highly concentrated for versatility and cost-effectiveness in any aircraft surface maintenance situation. It can be applied in any manner – spray, brush, wipe, power washer, etc. – and can be diluted with water by as much as 80:1 for routine cleaning in commercial application. Stubborn stains are dissolved almost on contact using full strength Belly Wash™, making it perfect for keeping troublesome aircraft bellies and wheel well areas in like-new condition. When used to remove concealing grime and petroleum-based residues form the aircraft engine area, Belly Wash™ makes it possible to perform a more thorough inspection when checking for potential maintenance problems.

18 Ounces ..... P/N 09-00168 ..... ---
1 Gallon ..... P/N 09-00169 ..... ---

WING CLEAN™ LEADING EDGE CLEANER

One major performance factor the aircraft owner/operator can improve upon is complete removal of all parasitic drag resulting from impacted air debris on the leading edges. Wing Clean™ is specifically formulated to both safely and effectively dissolve the problem. Wing Clean's™ water-based non-solvent "spray-soak-rinse" application dramatically improves an aircraft's flight-ready condition. Routine use of Wing Clean™, in series with PPC's Perfect Detail™ and/or Prestige Protective Polish, produces a microcellular separation barrier on leading edge surfaces, making future bug removal a progressively easier task.

18 Ounces ..... P/N 09-00170 ..... ---
1 Gallon ..... P/N 09-00171 ..... ---

CRUD REMOVER™

Crud Remover – made with water – is an environmentally safe replacement for heavy-duty petroleum cleaning solvents. It's extremely powerful degreasing and defatting abilities enable it to dissolve diesel fuel, soot, and oily deposits on contact, grease and heavy grime in seconds, and virtually any stain from any surface – including cloth – in a matter of seconds! It also loosens bolts. It can be applied in any manner – spray, brush, wipe, or soak – and simply rinses off with water.

18 Ounces ..... P/N 09-00172 ..... ---
1 Gallon ..... P/N 09-00173 ..... ---

AERO GLAZE DRY WASH & POLISH

Aero Glaze is a high-grade protector and restorer. Removes oxidation, fuel stains, soil, insects and exhaust deposits. Aero Glaze retards corrosion, resists stains and prevents paint deterioration.

1 Pint ..... P/N 13-00030-1 ..... ---
1 Gallon ..... P/N 13-00030 ..... ---

CARBON X CLEANER / DEGREASER

Water soluble, biodegradable, non-flammable, non-toxic concentrate, that can be used in pennies-per-gallon dilutions to outperform other cleaners. Approved for use as aircraft exterior surface cleaner: Douglas Aircraft CSO #1; Boeing D6-17487 Revision L. *When used according to label instructions, this product is approved for use in USDA Inspected Meat and Food Processing Facilities.

1 Gallon ..... P/N 13-00029 ..... ---

FORMULA 2™ CLEANER/PROTECTANT

Formula 2™ Cleaner/Protectant is a chemically unique multipurpose liquid which thoroughly cleans, beautifies, and protects all leather, rubber, vinyl, and finished wood products in one easy step with no greasy film! Due to its unique chemistry, Formula 2™ can also be used on painted and plastic surfaces. When applied sparingly to such surfaces it dries to a slick smooth, invisible coating resistant to mud, fingerprints, food splatters, soap scum, water spotting, etc. On leather, rubber, and vinyl Formula 2™ first dissolves away imbedded grime, then penetrates and softens the material to give it new life and flexibility, at the same time providing a lustrous, weather-resistant finish to prevent future deterioration.

20 Ounces ..... P/N 09-00174 ..... ---

EASY™ ALUMINUM POLISH

Easy™ Aluminum Polish is a unique liquid formula that produces a "mirror-like" shine in seconds on smooth aluminum, magnesium, stainless, brass, nickel, etc. Its ability to melt oxidation and simultaneously bring up the metal's true brilliance can't be matched by any other polish. The application of Easy™ allows its exclusive acrylic polymer barrier to "lock" onto the metal's polished surface to resist staining, tarnish, and weathering effects indefinitely. The fine "mirror" finish can easily be maintained with a quick "touch up" application of product as desired.

8 Ounces ..... P/N 09-00177 ..... ---

REAL™ WHEEL CLEANER

Real™ Wheel cleaner is the first detergent-based single product able to clean brake dust and corrosion from any type wheel in seconds! It works on contact to remove corrosion from older unfinished or neglected metals (aluminum, copper, brass, bronze, zinc) and is great for antique restoration. Real™ Wheel Cleaner's exclusive detergent action saves both time and money when detailing any vehicle.

18 Ounces ..... P/N 09-00178 ..... ---

NATURALLY NEW™ TIRE DRESSING

Naturally New™ Tire Dressing utilizes PPC's advanced water-based polymer technology to produce an effective, cost-efficient dressing that actually protects rather than destroys the integrity of the sidewall. Naturally New™ exactly describes the lustrous sheen imparted on contact with this instant action formula. The dry, semi-permanent barrier is both water repellent and resistant to dust, dirt etc. Naturally New™ Tire Dressing adds maximum beauty while conditioning to keep that "new tire" look during the treadlife of the tires.

18 Ounces ..... P/N 09-00179 ..... ---

CAVU UV PROTECTANT CLEANER / POLISH 14 OZ

Aviators of all experience levels recognize the importance of unobstructed vision to the safety of flight. That's where CAVU - UV Protectant Cleaner and Polish really shines through. Its unique formula is optimized for all kinds of aircraft surfaces: Windscreens, LCD screens, traditional "steam" gauges, aluminum surfaces, plastic panels, painted surfaces, vinyls, and more. ..... P/N 09-04611 ..... ---

FLEET WASH

Fleet Wash aircraft wash and wax is an effective cleaner that leaves a wax-like surface on the washed aircraft. Contains a high percentage of W-300. Fleet Wash leaves a high luster, water-repellent surface which helps to repel dust.

1 Gallon ..... P/N 13-00032 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

JET STREAM AVIATION PRODUCTS

POWERFOAM SPRAY & WIPE FOAM CLEANER

An exterior and interior spray and wipe cleaner. On aircraft exteriors, Powerfoam will effectively clean carbon exhaust, engine cowlings, oil and bugs. Excellent for use between wash jobs as a "trip ready" wipe and cleaner. On aircraft interiors, Powerfoam will completely clean smudge marks, nicotine stains, fingerprints and food stains. Can also be used on leatherette, sinks, table tops, woodwork, stainless steel, lavs, painted or similar surfaces.
19 oz. Can .....P/N 09-37970 ..... ---

SUPREME GLAZE AIRCRAFT FINISH TREATMENT

Supreme Glaze is a semi-flowing paste cleaner wax that cleans, shines, resurfaces, all aircraft painted surfaces while bringing out the brilliance of the original color. Supreme Glaze safely removes light to medium oxidation and scratches. Excellent for use on carbon exhaust stains associated with aircrafts such as King Airs. Supreme Glaze contains color brighteners and will protect against oxidation, salts, UV rays, hydraulic fluid, insect residue and acid rain. Can be used by hand or machine polisher.
16 oz. Bottle ..... P/N 09-37980..... ---

FLYERS SPEED-WAX WATERLESS DRY-WASH

SpeedWax is a specially formulated waterless aircraft polish and high gloss protectant Dry-Wash. This product is Carnauba Rich & is easy-on, easy-off. With Flyers there is no need to pre-clean any surfaces before using. Due to EPA regulations, cleaning aircraft with soap and water is becoming more and more regulated. Flyers SpeedWax is the answer to the ever increasing EPA regulations. This product will allow you to clean your aircraft in a reasonable amount of time, leaving the surface of your aircraft highly protected.
16 oz. bottle .....P/N 09-42015 ..... ---

JET STREAM METAL POLISH

SKAI METAL POLISH - Skai Metal Polish is designed to polish and restore aluminum or stainless steel to a mirror image. Used for polishing aircraft leading edges, spinners, engine inlets, thrust reversers and bare aluminum skins. Also safe for use on aircraft paint for removing heavy oxidation and stains. Skai Metal Polish is also very economical. A one pound container will normally equal several pounds of our competitor's products. Skai makes very little mess when you are polishing and will not sling over the aircraft if used properly. Skai is non-abrasive, fast cutting and quick to clear under a buffer. Surfaces treated with Skai are protected and resistant to oxidations **MIRROR IMAGE -** Mirror Image Brightwork Swirl Remover is designed to remove swirls in polished metal caused by machine buffing. Mirror Image can also be used as a light maintenance polish between machine polishing jobs. Contains corrosion inhibitors and anti-oxidation agents for long lasting protection on all polished metal. Mirror Image will produce 100% protection while sealing the polished metal.
1 Lb. can. Polish.....P/N 09-41713 ..... ---
Mirror Image 5 oz. roll Swirl Remover.....P/N 09-41715 ..... ---

JET STREAM CERAMIC GOLD WASH SOAP

Ceramic Gold Aircraft Wash Soap is a neutral PH, high gloss shielding product that will deliver a Hydrophobic wash that delivers a brilliant high gloss shine. Utilizing the latest technology of silica infused polymers, Ceramic Gold will safely lift and remove dirt from surfaces. Can be used over existing waxes, sealants, or after protective coatings to improve durability, gloss, and beading. The active Si02 molecules within the formula will chemically bond to the clean surface, leaving durable defense against the elements.....P/N 09-06045 ..... ---

FLITZ FIBERGLASS / PAINT RESTORER

Flitz Fiberglass/Paint restorer safely cleans, polishes, and protects fiberglass, plexiglas, painted surfaces, and plastics. It removes rust, oxidation, tarnish, and tar. It will not harm gel coat or clear coat, anodized or polished aluminum, stainless steel, brass, copper, chrome, and more. Contains no ammonia or abrasive.
8.5 fl. oz .....P/N 09-01240 ..... ---

FLITZ SPEED WAXX

This wax is perfect for waxing between flights. This remarkable spray on/wipe off wax is water based. No streak. No Smear. No white residue. Gives a super gloss, super fast.
16oz. trigger spray.... P/N 09-01678.....---

SPRAY SHINE™ SPRAY-ON CARNAUBA WAX

Spray Shine™ was designed for the finest of finishes, car show enthusiasts, new car dealers and people who really like to take care of their vehicles. Just a quick spray and wipe will give your ride a complete new shine! Use Spray Shine™ on paint, glass, chrome, plastic, tile, lamps stoves, refrigerators, microwaves, mirrors, computer screens, etc.
Spray Shine™ will give a high gloss surface an amazing CLOUD FREE SHINE! 16 oz. ..P/N 09-03485 ..... ---

FLITZ ALUMINUM & FIBERGLASS POLISH

Flitz is a non-abrasive metal polish which can be used on all metal surfaces including polished aluminum, painted surfaces, and fiberglass. It is easy to apply and remove, and leaves a protective film to protect shiny surfaces up to 4 months A very popular multi-purpose polish.
1.76 oz. Tube .....P/N 09-42405 ..... ---
5.29 oz. Tube .....P/N 09-01676 ..... ---
1 Lb. Can.....P/N 09-05313 ..... ---
2.2 Lb. Can.....P/N 09-42415 ..... ---

FLITZ POLISHING AND BUFFING BALL

The Flitz 8" Polishing & Buffing Ball is made of a viscose felt material which is a cooling material vs. lambs wool or cotton which is a heating material. This way it doesn't burn the paint and can be used to buff leading edges without having to tape them. This ball works wonders with Flitz Products and makes polishing much easier, faster and more effective in less than half the time. It fits all drills and air tools and will buff out scuffs, oxidation tarnish, pitting, corrosion on all metals, paints, fiberglass, plastics, and wood. Re-usable & washable.
P/N 09-00554 ..... ---

FLITZ MICROFIBER CLOTH

The Flitz microfiber cloths are 30 times finer than cotton and are great for buffing out waxes and polishes by hand. They will wash windows without chemicals (just use water) and will not streak or leave lint.
Size: 16"x16". ..... P/N 09-00556 ..... ---

BUFFING / POLISHING PADS

Buffing Pads are made from 100% wool with a 1-1/2 inch pile. These pads can be used for all of your brightwork and paint polishing needs and will cut through oxidation quickly and wear evenly for extremely smooth polishing. Our buffing pads can also be washed and re-used multiple times for long lasting life. They do not have velcro backing and are designed to be used with a threaded nut and backing plate .....P/N 09-42035 ..... ---

BUFFING PADS SPUR / CLEANER

Absolutely a must tool when buffing. The Buffing Pad Spur Cleaner is used to break down compound build- up without removing the pad from the machine polisher. When buffing, your pads fill up with polishing compounds not allowing to perform properly. The Buffing Pad Spur Cleaner will quickly and efficiently remove this build-up, restoring the pad to its full potential ..... P/N 09-42045..... ---

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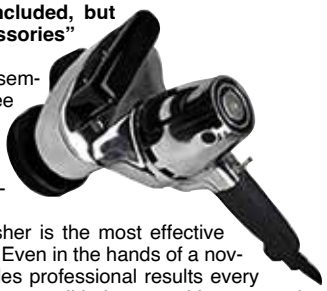
CYCLO POLISHING PRODUCTS - DE-ICING

CYCLO ORBITAL POLISHER MODEL #5

Note: Polishing pads are not included, but are required for use. See "Accessories" tab for available pads.



Precision machined and hand assembled for a lifetime of trouble-free operation, the Cyclo Polisher's dual heads orbit in a random, overlapping motion that mimics fine hand polishing. Leaves a dazzling, swirl-free shine every time.

The Cyclo Dual Head Orbital Polisher is the most effective means of polishing available today. Even in the hands of a novice, it is safe to operate and provides professional results every time. The difference lies in the tool's overall balance and its patented dual heads. The dual heads operate in a synchronized motion, providing the most effective results without fear of heat buildup; damage to trim pieces, moldings and gaskets; swirl marks, holograms and more.

The low-vibration and balanced design allow for a more even application and better control when operating.

- Power Supply: 115 Volts, 60 Hertz, 220 Watts
- Motor: alternating current, semi-enclosed 24-bar commutator
- Speed: 3000 orbits/minute
- Output: 1/3 H.P. (.25 Kw)
- Weight: 6.5 lb. (2.9 kg)
- Head Rotation/Diameter: clockwise /4"
- Electric Cord: 10' length, 16 ga/3SJTOW
- Housing: heavy-duty cast aluminum
- Polisher Only.....P/N 09-35715 ..... ---

CYCLO PROGUARD ORBITAL BACKING PLATE

The Cyclo Toolmakers ProGuard Orbital Backing Plate features permanently adhered high quality dense hook material (the same material that's used on the Rubber Pad Holders). This provides a much better mating hook and much more area of hook material. The color of the plate is white so you can tell it is the new and improved version. Low profile for improved control and a non-marking bumper for safe operation. The advanced design still allows for faster pad centering, and is perfect for quick and easy pad changes.....P/N 09-05524 ..... ---

CYCLO BRUSHES

AQUA SOFT CARPET BRUSH - • Fine Carpets • Durable Carpets • Auto & RV Carpets & Upholstery.....P/N 09-00690 ..... ---

WHITE STANDARD CARPET BRUSH - • Auto & RV Carpets & Interiors • Tile & Grout • Durable Carpets.....P/N 09-35742 ..... ---

BLACK STIFF SCRUB BRUSH - • Tile & Grout • Truck Bed Liners. P/N 09-35740 ..... ---

CYCLO POLISHER ACCESSORIES

Proguard Orbital Backing Plate.....P/N 09-05524 ..... ---
Flat Wrench.....P/N 09-35745 ..... ---

JET STREAM PBS BOOT SEALANT

PBS Prep is formulated for use before each PBS Boot Sealant application to avoid dulling and hard to remove build-up. PBS Prep will effectively clean pneumatic de-ice boots of all old treatments assuring the best results possible when applying PBS Boot Sealant. Failure to prepare de-ice boots with PBS Prep may result in dulling due to build-up. 32 ounces.

PBS Prep.....P/N 09-41711 ..... ---
PBS Sealant.....P/N 09-41712 ..... ---

CORROSION TECHNOLOGIES BOOT KLEAN

Boot Klean removes debris old sealants quickly and easily from pneumatic deicing boots. Treat cleaned boots with CorrosionX Boot Sealant.

32 fl. oz. .....P/N 09-05646 ..... ---
5 Gallons.....P/N 09-05646-5 ..... ---

CORROSION TECHNOLOGIES BOOT SEALANT

CorrosionX Boot Sealant is Step 2 in maintaining and properly protecting the surface of pneumatic de-icing boots. Boot Sealant prevents drying and cracking by sealing and protecting de-ice boots from harmful UV rays. Simply apply Boot Sealant to your de-icing boots with a soft cloth, and when dry, Boot Sealant stays slick and shiny for months! To prepare your de-ice boots for a treatment of Boot Sealant, it is important to first clean them and remove old, residual sealant by using CorrosionX Boot Klean.... P/N 09-05647.....

GOODRICH DE-ICER CONDUCTIVE CEMENT EDGE SEALING COMPOUND

The Goodrich De-Icer Systems are formulated for cosmetic appearance and static dissipation. The Goodrich kits are the same for both standard and Fastboot® neoprene de-icersEdge.

1/2 Pint .....P/N 06-03350..... ---
1 Quart .....P/N 06-03351..... ---

PRIST TKS ANTI-ICING DE-ICING FLUID

The TKS Ice Protection System is an ethylene glycol-based fluid that works by mixing with super-cooled water in the cloud, depressing its freezing point to at least the ambient temperature, allowing the mixture to flow off the aircraft without freezing. TKS also protects the area aft of the panels since the fluid flows over the entire chord of the protected surfaces.

TKS works not only for de-icing an aircraft but helps prevent icing post takeoff. When ice accumulates on the leading edges of the surface of the wings or tail, the antifreeze solution chemically breaks down the bond between the ice and airframe, allowing the aerodynamic forces on the ice to carry it away, clearing the airframe of accumulated ice before transitioning to anti-ice protection.

1 Gallon .....P/N 09-06358 ..... ---
2.5 Gallons .....P/N 09-06357 ..... ---
55 Gallon Drum .....P/N 09-06356 ..... ---

CORROSION TECHNOLOGIES LAV CHEM

Lav Chem Blue/Clear is a highly concentrated lavatory cleaner and deodorizer for aircraft and portable lavatories / toilets. Ideal for buses, trains and boats, Lav Chem Blue/Clear leaves a pleasant (i.e. not chemical) scent that keeps working long after similar products fail – leaving lavatories smelling and looking their best.

Specifications:

- Use 2-3 ounces of Lav Chem Blue/Clear per gallon of water in storage tank.
- Use 1 ounce of Lav Chem Blue/Clear per 4 gallons of water for cleaning and deodorizing toilet areas.

Size	Color	Part No.	Price	Color	Part No.	Price
4 fl. oz.	Clear	09-05648	---	Blue	09-05649	---
1 Gallon	Clear	09-05648-1	---	Blue	09-05649-1	---
5 Gallon	Clear	09-05648-5	---	Blue	09-05649-5	---

AVLAB DICE FLASH 190 FUEL SYSTEM ICING INHIBITOR

Dice Flash 190 Fuel System Icing Inhibitor prevents undissolved water molecules from freezing in jet fuel, which would result in blockage of fuel lines and possibly engine failure. Meets U.S. Military specifications MIL-DTL-85470B and ASTM STANDARD D4171.

Pure DIETHYLENE GLYCOL MONOMETHYL ETHER, "carbitol". DICE Flash 190 is the identical chemical formulation utilized by the United States Air Force turbine fleet. This chemical replaces ethylene glycol monomethyl ether as a less toxic and non-hazardous fuel system icing inhibitor. Comparable to Prist.

20 Ounces.....P/N 05-21908 ..... ---
5 Gallons.....P/N 05-21909 ..... ---

AVLAB TKS DE-ICING FLUID

TKS de-icing fluid complies with AL-5 DTD406B and is approved by British Aerospace. Aviation Laboratories aircraft wing de-icer is approved for all TKS systems. Diamond aircraft, HS-125 Hawker, Cirrus, Beechcraft, Cessna, Piper, Mooney, Kodiak, Hawker and many other air crafts are equipped with the TKS weeping wings de-icing systems. TKS wing deicer is sold by the case, pail, and drum and accommodates all users from individual pilots and their aircraft to fleet managers and their growing fleets. TKS wing deicing fluid is tested before and after blending and undergoes strict quality control. Filtered to 1 micron. Certificate of analysis and strict lot control.

Size	Part No.	Price
1 Gallon	09-04827	---
2.5 Gallon	09-04828	---
5 Gallon	09-04829	---
33 Gallon	09-04830	---
55 Gallon	09-04831	---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

DE-ICER PRODUCTS

BF GOODRICH AGE MASTER RUBBER NO. 1 PROTECTIVE AGENT

FLAMMABLE

Age MAge Master#1 rubber protectant helps extend the life of deicers so you can cut maintenance costs, slow deterioration and aging, extend service life & save money. The protectant isn't just a surface coat. Penetrates neoprene rubber to help retard damage from ozone, weathering and pollutants to help your deicers stay strong and flexible. And its economical,long lasting and easy to apply.

1 Quart .....P/N 09-42545 ..... ---

BF GOODRICH ICEX II FOR DE-ICERS

FLAMMABLE

Icex coating boosts your de-icer performance so you fly with greater confidence by helping your de-icers shed ice at peak efficiency. Icex coating chemically bonds with rubber de-icer surfaces and forms a slick film that makes your de-icers slippery. It will lower the adhesive bond between ice and de-icer surfaces so your de-icers break the frigid grip of ice better and faster! Icex coating is easy to apply and economical, too. A single application provides 50 flight hours of added ice fighting protection on leading edge de-icers and 15 flight hours of protection on prop de-icers. Get Icex coating in quart cans for an attractive uniform satin finish on your de-icers. One is enough to treat a complete single or twin-engine aircraft.

1 Quart .....P/N 09-42530 ..... ---

BF GOODRICH SHINEMASTER PNEUMATIC BOOT TREATMENT

Shinemaster Prep is a surface coating that cleans de-icing boots & prepares the de-icer for Shinemaster. Shinemaster is a wax surface coating that enhances the appearance of pneumatic de-icing boots. Simply clean the boots with Shinemaster Prep per the instructions, then apply a couple of coats of Shinemaster treatment per the instructions. New boots look spectacular and old boots look like new. Compatible with Agemaster No. 1 and Icex products.

Shinemaster Prep (Quart).....P/N 09-42532 ..... ---
Shinemaster (Pint) .....P/N 09-00325 ..... ---

SMR-A56BP 1/2 PINT CONDUCTIVE EDGE SEALER

A-56-B Conductive Edge Sealer is used on Neoprene pneumatic deicer boots to form a feathered edge between the edge of the boot and wing. This product is not intended for use with Estane deicers.....P/N 08-13012 ..... ---

PEERCO ADHESIVE REMOVER - #321

Peerco #321 Adhesive Remover is designed to remove the adhesive residue when replacing de-icing boots. However, #321 will remove 3M 1300L and many other adhesives. This product is environmentally and user friendly as it does not contain ketones like MEK. Peerco #321 Adhesive Remover has a pleasant scent and is made of all natural ingredients. Apply #321 liberally to surface and allow to stand for 10 minutes. You may rinse off with water and wipe dry. 1 gallon.....P/N 02-00234 ..... ---

TYPE I AIRCRAFT GROUND DE-ICING FLUID

Type I De-icing Fluid is a propylene glycol based de-icing product intended for use during ground de-icing of an aircraft. Sprayed onto the plane frame and wings to help remove the buildup of frozen containments (ice, snow and frost) prior to flight. This helps with aerodynamics to keep the plane flying safely and efficiently. They're typically sprayed hot with a handheld or powered sprayer.

Note: Minimum allowed RI for corresponding dilution to meet LOUT requirements. Any dilution higher can be used up to the highest allowed dilution (65/35). Any mixture above 65/35 must not be used.

5 Gallon .....P/N 12-05518 ..... ---
55 Gallon .....P/N 12-05519 ..... ---
5 Gallon - Concentrate .....P/N 12-05520 ..... ---
55 Gallon - Concentrate .....P/N 12-05521 ..... ---

TYPE IV AIRCRAFT GROUND DE-ICING FLUID

Type IV Anti-icing fluid is specifically thickened so as to remain on the wing and other aircraft externals, to prevent ice from forming. Type IV products are not used for ice removal, but rather for icing prevention.

Note: Minimum allowed RI for corresponding dilution to meet LOUT requirements. Any dilution higher can be used up to the highest allowed dilution (65/35). Any mixture above 65/35 must not be used.

5 Gallon .....P/N 12-05522 ..... ---
55 Gallon .....P/N 12-05523 ..... ---

KILFROST TKS406B ICE PROTECTION FLUID

TKS 406B contains a mixture of glycol and alcohol and offers good ice protection capability (freezing point below -60°C). Principally used for in-flight ice protection, TKS 406B can also be applied to remove frozen deposits of snow, ice and frost from stationery aircraft on the ground. TKS 406B is designed for use in cold concentrate form (as supplied) and is available in 2.5 gallon, 5 gallon, 30 gallon, and 55 gallon containers.

Features: • Ice Protection capability • Fully biodegradable • Simple to use.
Note: NO HAZ SHIPPING FEES (UP TO 250 GAL)

Description	Size	Part No.	Price
TKS406B Ice Protection Fluid	2.5 Gallons	09-02401	---
TKS406B Ice Protection Fluid	5 Gallons	09-02402	---
TKS406B Ice Protection Fluid	55 Gallons	09-02404	---
TKS406B Ice Protection Fluid	250 Gallons	09-02984	---

TKS FLUID FUNNEL

• Measure then release desired amount
• On/off valve • Extension tube

P/N 12-02586 ..... ---

RAIN B GON

Rain B Gon will dramatically improve your wet weather flying, riding or driving visibility. A hydrophobic coating technology that forms a chemical bond and causes the raindrops to bead up and blow away from the windshield. Rain B Gon's innovative technology is designed especially for plastic Acrylic and Lexan windshields, and has no alcohol which can harm plastic. It is safe to use on glass windshields also. Can be applied on painted surfaces, and aids in easy removal of salt, ice, frost, insects and mud.

8 oz. spray bottle.....P/N 09-03487 ..... ---

RAIN-X RAIN REPELLENT

Aircraft with bleed air rain removal systems, such as Cessna Citation and Learjet, need to have their windshields treated to help dissipate the rain. Repcom rain repellant was the recommended product, but it is no longer available. Rain-X is manufactured by the same company and it is the same formulation. While not FAA approved, it works well in dispersing water on the windshield. ***Not Recommended for plexiglass or acrylic products, such as, windshields or windows on small general aviation aircraft. Benefits:** • Improves driving visibility • Repels rain • Helps reduce sleet and snow from sticking • Rain-X transparent polymer coating causes rain to "bead up" and roll off glass surfaces.

7 Ounces .....P/N 09-42500 ..... ---
16 Ounces .....P/N 09-04439 ..... ---

RAIN AWAY

A protective treatment which leaves a clear, smooth, non-stick surface. Visibility is improved by repelling rain, bugs, frost and road film. Raindrops bead up and are blown away while flying.....P/N 09-01279 ..... ---

RAIN-X PLASTIC WATER REPELLANT

Rain-X® Plastic Water Repellent provides a superior water beading coating on various plastics including Lexan®, Plexiglas®, Perspex®, Lucite®, Acrylics and Polycarbonate. Watch water bead up and roll away on motorcycle windscreens, goggles, visors and boat windshields for improved visibility!

12 Ounces.....P/N 09-05319 ..... ---

AIRCRAFT HANDHELD DEICING 3 GALLON SPRAYER

High-density polyurethane, controlled pressure sprayer designed specifically to spray hot SAE Type 1 De-icing fluid directly onto an aircraft. It can accommodate a 120-volt Immersion Heater.

3 Gallon ..... P/N 12-05444.....---

HANDHELD ELECTRICAL IMMERSION HEATER

The Model IH-HS3HP Immersion Heaters are industrial electrical 120-volt units designed to be used with our HP-Series, Handheld Commercial Deicing Sprayers to heat SAE Type I aircraft ground de-icing fluids within the sprayer's tank. The heaters can be used indoors or out, may be plugged into a standard 3-prong grounded outlet, and will heat the de-icing fluid to a factory-set 140°F.....P/N 12-05454 ..... ---

AIRCRAFT PB-3HP INSULATED WRAP FOR S33HP

Tailored to Aircraft Handheld Portable Deicing 3 gallon Sprayer P/N:S33HP. This heavy duty insulated vinyl wrap keeps the fluid warm to help maximize your de-icing operations .....P/N 12-05446.....

CS

EZCLEAR ALL-SPRAY CLEANING AND DETAILING GA AIRCRAFT WINDOWS

Detailer's All-Spray is an aviation grade, anti-static detailing spray that will quickly restore a brilliant luster to acrylic surfaces. All-spray is ideal for cleaning aircraft windows, instrument panels, landing light and navigational lenses. It is also great for cleaning clear plastic boat windows, convertible windows, helmet shields, motorcycle windscreens, CD's, aquariums, skylights, displays, and other Plexiglas, Lexan, Acrylite and Lucite plastic surfaces.

32 Ounces.....P/N 09-02379 ..... ---

EZCLEAR INSTRUMENT PANEL CLEAN KIT

This product meets Garmin G1000 Pilot Guide specs for cleaning and is safe to use on glass panels. EZCLEAR Instrument Cleaning provides a safe, effective way to remove fingerprints and dust from glass panels, instruments and more. Per the instructions, the user wipes the surface with the Cleaning Pack and then dries the area with the Polishing Cloth. The Cleaning Packs are ammonia free, aviation-grade and will not remove or damage any anti-reflective coating. The Polishing Cloth is washable. This kit will last between 3-4 months depending upon frequency of use.

The kit contains 1 - EZCLEAR Avionics Cleaning Pack, 1 Avionics Cloth (7.5x7.5"), 3 Cleaning Packs; these items have been specifically paired together to ensure safe and effective screen cleaning.

P/N 09-02394 ..... ---

CS

SHERLOCK LEAK DETECTOR FLUID

Neutral solutions formulated for leak-testing lines, cylinders and tanks carrying pure oxygen, but also used widely for testing fuel tanks, pneumatic systems - in fact any product or system that can be leak-tested with air or gas pressure. Contains no oil, grease or any other ingredient that could combine with pure oxygen to form either a flammable or explosive mixture. Thoroughly tested and approved by both governmental and commercial laboratories.

8oz. bottle .....P/N 08-12291 ..... ---

Gallon.....P/N 08-16215 ..... ---

RID ODOR SPORT

Rid Odor Sport is a product that nearly every owner of a Single Engine/Multi Engine both pressurized and non-pressurized need! Why? Because there are two things that nearly ever aircraft owner fights, whether they hanger their aircraft or tied down. Moisture and Bacteria are the two major reasons why cabin spaces have terrific problems with "Odors".

Rid Odor Sport is chemically engineered and designed to be attracted to ALL Malodor molecules and the reasons for them being there. Everything that is organic is surrounded by atoms. All atoms have one thing singularly in common and that is that they are oriented with a positive (+) charged molecules. Rid Odor Sport is designed so that the each molecule inside our formula is constructed with a negative (-) charged molecule. When Rid Odor Sport is pump sprayed into the vicinity of all of the" Malodor Molecules (+) ", the Rid Odor Sport Molecules (-) are attracted and drawn in by Malodor molecules. Once they collide, the Sports molecule bonds to the malodor and destroys the malodor molecule. Unlike other products that just mask over the odor, Rid Odor destroys the malodor and leaves the inside of the cabin smelling like new!

8 oz. Trigger Spray.....P/N 09-02610 ..... ---

AEROKROIL PENETRATING OIL

Corrosion, compression, chemical reactions, thermal variations, and electrical interrelationships are the primary factors which contribute in varying degrees to frozen metal parts. For example, in some instances, loosening a frozen metal part requires that the molecular bond of oxidation be broken at the first molecular level. This requires that a chemical bond be broken in an often-inaccessible location that literally exists in infinitely small spaces.

Based on a unique proprietary formula and manufacturing process, Kano created a molecule which had an inherent means of expedient self propulsion which would penetrate into spaces which are immeasurably small.

In the lab, it was nicknamed Creeping Oil, Kreeping Oil, and finally Kroil. To these penetrating properties were added the ability to disrupt the existing corrosive bond while remaining chemically neutral to the base metal. Since not all frozen parts are caused by corrosion, additional research has provided for the inclusion of other molecular properties assuring that the final molecular architecture would also be capable of loosening frozen metal parts when other factors such as compression were more responsible for the problem. The result is Kroil, the world's largest selling penetrating oil.

Guaranteed to penetrate, lubricate, and loosen frozen metal parts or it costs you nothing!

8 oz Can .....P/N 09-05574 ..... ---

10 oz Aerosol.....P/N 05-19952 ..... ---

13 oz Aerosol.....P/N 09-02665 ..... ---

16.5 oz Aerosol.....P/N 09-03022 ..... ---

AERO-BRITE UNIVERSAL GREEN LEAK DETECTION DYE

Locates all leaks in petroleum- and synthetic-based aviation fluid systems! Checks an entire system in just minutes! Ideal for use as part of a diagnostic/preventive maintenance program for commercial and military aircraft fuel and fluid systems!

Features: • FAST— The quickest way to inspect for leaks in aviation fuel, lubrication and hydraulic systems • SAFE — Specially formulated to accommodate the host fluid. Will not damage the fluid's properties or any of the system's components • VERSATILE — Allows inspection of the entire system under virtually all operating conditions. Ideal for both in-flight and static testing • COST EFFECTIVE — Super-concentrated. Use less per dose! Glows a bright green under UV light.

16 oz.....P/N 13-22754 ..... ---

ORANGE CITRUS CRAZY CLEAN DEGREASER

Orange Citrus Crazy Clean is fortified with a natural orange citrus solvent (d-limonene) that cleans and deodorizes most surfaces. Simply spray this foaming product and wipe clean. It contains no chlorinated solvents, petroleum distillates or glycol ethers. This product is safe for use on washable, painted surfaces. Excellent for removing dirty hand prints & grease marks from your aircraft.

Features: • Light, pleasant orange fragrance • Safe to use on painted surfaces • Cleans & deodorizes

20 oz aerosol .....P/N 09-04702 ..... ---

AEROLIFE FIBERGLASS & COMPOSITE POWDER CLEANER & STAIN REMOVER

Removes rust stains and black streaks. Removes environmental pollutants. Biodegradable. 26 oz.

P/N 09-04702 ..... ---

AEROLIFE FIBERGLASS & COMPOSITE RUBBING COMPOUND

Restores finishes. Removes oxidation and stains Aircraft formulated.

16 oz.....P/N 09-06420 ..... ---

5 gallon.....P/N 09-06421 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CRC AVIATION MAINTENANCE PRODUCTS

CRC ULTRA-LITE LUBE

Ultra-thin, non-staining lubricant that resists oil, dirt and dust build-up. Seals out moisture and prevents corrosion with protective film. Excellent for drying out electrical/electronic components. • Appearance-Amber Liquid • Odor-Petroleum • Base Type-Petroleum Solvent • Flashpoint-172°F • Flammability-Flammable • Specific Gravity-0.8034 • Plastic Safe-No • Film Type-Ultra Thin and Dry • Film Thickness-0.05 Mils • Working Temp-40 to 300°F

11 Ounces ..... P/N 09-39602 ..... ---

CRC POWER LUBE®

Multi-purpose lubricant that utilizes PTFE and extreme pressure additives• Appearance-Light Amber Liquid w/white precipitate • Odor-Wintergreen • Base Type-Petroleum Solvent • Flashpoint-<20°F • Flammability-Extremely Flammable

11 Ounces ..... P/N 09-39605 ..... ---

CRC PAINT & DECAL REMOVER

A solvent-based, high strength cleaner that Removes baked on fiber gaskets, gasket adhesives and sealants. Dissolves and aids removal of paints, lacquers, adhesives, and varnish. Contains no methylene chloride. Applications include: • Dissolves & aids removal of paints, lacquers, adhesives & varnish • Removes graffiti from metal & stone • Removes conventional and formed-in-place gaskets on motors, pumps and flanges. Not for use on energized equipment.

12 Ounces ..... P/N 09-39622 ..... ---

CRC SPRAY ADHESIVE

A general purpose quick tack adhesive especially formulated to bond to many foils, plastics, papers, foams, metals, cardboards and cloths ..... P/N 09-02431 ..... ---

CRC QD CONTACT CLEANER

CRC QD Contact Cleaner is suitable for cleaning sensitive electronics and electrical equipment without leaving a residue. Evaporates quickly, leaves no residue and is safe to use on all plastics. Use where lower flashpoint cleaners are acceptable.

11 oz ..... P/N 09-04582 ..... ---

CRC RTV RED SILICONE SEALANT

For general-purpose sealing, bonding, protecting and waterproofing applications. Red is designed as a high temperature, low odor, non-corrosive gasket sealant.

P/N 09-05512 ..... ---

CRC GASKET REMOVER

The CRC Gasket Remover contains no methylene chloride. Loosens carbon deposits. Protects equipment surfaces by reducing the need for excessive scraping. It's an excellent source for paint, varnish, and graffiti remover.

Note: The can is 16 oz., but the fluid is 12 oz. and the remainder is the propellant ..... P/N 15-07180 ..... ---

CRC SILICONE LUBRICANT

• Reduces friction and galling even on metal-to-metal contact areas • High temperature (-100 to 450 F), high pressure (withstands 1200 psi Falex test) • High grade release and parting agent • Clear, non-staining, odorless film resists moisture • Convenient 360° spray valve - can be sprayed from any position.

10 oz ..... P/N 09-05988 ..... ---

CRC 3-36® MULTI-PURPOSE LUBRICANT & CORROSION INHIBITOR

A versatile petroleum-based compound that forms a clear, thin film that lubricates and protects against wear and corrosion. Multi-purpose product lubricates, protects, displaces moisture, and cleans Frees rusted parts. Restricted States: AK, HI, PR

16 oz ..... P/N 09-06062 ..... ---

CRC CORROSION SHIELD

A long-term corrosion inhibitor that provides extended protection for all metal parts and assemblies, both in storage and during shipment. Easily removed with solvent cleaners. • Seat and cargo tracks •Landing gear, wheel wells & keel beam • Fuselage structure • Wing to body fairing • Pins • Hinges • Wing front & rear spar • Lower fuselage interior • Wing interior structure • Horizontal stabilizer • Ground support equipment • Chains and cables • Air conditioning ducts • Lap joints • Skin panel edges • Emergency escape hatches • Bulkheads • Entry and cargo doors. Not for use on energized equipment.

20 Ounces ..... P/N 09-39655 ..... ---

CRC CORROSION SHELL

A long-term indoor and outdoor corrosion inhibitor for machined surfaces and assemblies subjected to long periods of storage or adverse conditions during shipment. Its firm, waxy film is highly resistant to humidity and salt spray and never becomes brittle. Petroleum solvents may be used to dilute the product to vary the film thickness or to remove it after application. Applications include: • Completed assemblies • Seat tracks • Chains and cables • Landing gear •Wheel wells • Faying surfaces• Air conditioning ducts • Lap joints • Skin panel edges • Fuselage • Landing gear and bilges • Emergency escape hatches • Bulkheads • Entry & cargo doors. Not for use on energized equipment.

16 oz ..... P/N 09-39657 ..... ---

ISOPROPYL ALCOHOL - ULTRA PURE CLEANING SOLVENT

A quick drying light-duty degreaser for use in industrial, electrical, electronic and aviation applications. Its 99% pure formula aggressively dissolves grease, dust, dirt, lint, oils and flux from most non-plastic surfaces.

12oz. ..... P/N 09-02423 ..... ---

CRC BATTERY CLEANER

Water-soluble formula removes corrosion quickly and economically. Neutralizes acid spills. Restores battery output and reduces voltage leakage due to contaminants. Assures maximum battery current flow and promotes longer battery life.

11 Ounces ..... P/N 09-02424 ..... ---

CRC KNOCK'ER LOOSE PLUS PENETRATING SOLVENT

A unique penetrant that immediately drops the temperature of the area in contact with the spray. The freeze shock action cracks rusted surfaces allowing it to reach deeper & work more effectively than other penetrants.

10 oz. ..... P/N 09-02426 ..... ---

DRY GRAPHITE LUBE

Ideal where a dry lubricant is required or where petroleum products must be avoided. Resists dirt, dust and oil build-up. Wide effective temperature range up to 850°F constant. 10 oz.

P/N 09-02427 ..... ---

CRC WHITE LITHIUM GREASE

Superior lubrication and durability in any weather or temperature. Perfect for use as a break-in lubricant for bearings or as a general purpose lubricant and corrosion inhibitor for tools, machinery and equipment.

10 Oz. ..... P/N 09-02428 ..... ---

CS

LPS PRODUCTS

LPS LOW SURFACE TENSION (LST)

A deep penetrating formulation attacks rust and corrosion to free "frozen" parts. LST has an extremely low surface tension that combines with a powerful foaming action to provide complete surface coverage, better penetration and improved moisture displacement. LST Penetrant lubricates and protects against rust and corrosion.

11 oz. aerosol can.....P/N 09-01916 .....---

LPS COPPER ANTI-SEIZE

Prevents seizure up to 1800°F (982°C). Lead free. Protects against seizure, heat-freeze, galling, rust and corrosion. Brushes easily. Highly adhesive on both wet and dry surfaces. Will not run, drip or settle out. Conforms to Mil-PRF-907E. Ideal for use on stainless steel and for joining dissimilar metals. Copper color 1/2 lb. can ...P/N 09-02908 .....---

LPS MAGNUM TEFLON LUBRICANT

LPS® Magnum Teflon® Lubricant provides ultra-high lubricity, plus the additive strength of Teflon® for high-temperature, high-pressure environments. In even the most demanding situations, extend equipment life and reduce maintenance.

11 oz.Spray Can.....P/N 09-26430 .....---

LPS® HEAVY-DUTY SILICONE LUBRICANT

Meets FDA regulation for incidental food contact. Silicone-rich formula. Water-based formula. Colorless, odorless & non staining. Ideal for rubber and plastic surfaces. Eliminates sticking, binding and squeaking. Does not contain chlorinated solvents. Safe on most surfaces NSF® H1 registered. 13oz. (368g) – aerosol

P/N 09-26410.....---

LPS FOOD GRADE SILICONE LUBRICANT

Food Grade Silicone Lubricant is a non-staining, high quality, lubricant designed especially for the food industry for use as an anti-stick agent for chutes and slides.

10 oz.....P/N 09-04052 .....---

LPS® COLDGALVANIZE CORROSION INHIBITOR

• Zinc purity greater than 99% • Works like a hot-dip on ferrous metals indoors and outdoors • Withstands water temperature up to 212°F (100°C) and continuous dry heat up to 750°F (400°C) • Commonly used as a flash rust preventive on welded areas • Long term protection • Flexible coating will not yellow, chalk, crack or peel • Electrochemically protects bare metal • Dries to touch in 3 to 5 minutes • 14oz. (397g) – aerosol.....P/N 09-26425 .....---

LPS KB-88 ULTIMATE PENETRANT

KB 88 has extremely high solvency and special additives to enhance penetration and attack corrosion. It makes the toughest maintenance job easier, faster, safer, and simpler. Formulated to attack and quickly release rusted and corroded nuts, bolts, hinges, and other frozen components. High KB solvency value of 151 and low surface tension and penetrates faster and deeper than most other similar products in the market place. Displaces moisture with an aggressive formula that is NSF® Certified: H2 Registration # 138554 (Aerosol). This product is VOC compliant in all 50 states.

13 oz.....P/N 09-04027 .....---
20 oz.....P/N 09-04028 .....---

LPS NICKEL ANTI-SEIZE

• Contains no lead, copper or graphite • Prevents seizure up to 2600°F (1427°C) • Protects against rust and corrosion • For use in hostile environments and • extreme temperatures • Acid resistant • Strong resistance to water washoff • Brushable to -18°F (-27°C) • Will not run, drip or settle out • Conforms to MIL-PRF-907E • Silver color.

1/2 Lb .....P/N 09-04833 .....---
1 Lb .....P/N 09-04834 .....---

LPS T-91 NON-SOLVENT DEGREASER

T-91 Non-Solvent Degreaser is biogradable, non-flammable, and has a neutral pH. T-91 is an excellent replacement for many solvent degreasers that have potential worker safety or flammability concerns. T-91 is ideal for solvent cleaning, part washers, and dip tanks and is more economical than most solvent degreasers in the marketplace. T-91 has an NSF® A1 registration (#141975) for use in food plants.

Gallon .....P/N 09-02309 .....---
Case of 4 Gallons .....P/N 09-02309-4 .....---

LPS TRIFREE BRAKE CLEANER

The heavy-duty solvent for removal of brake fluid, grease, oil, and other contaminants.

Single.....P/N 09-05843 .....---
Case of 12 .....P/N 09-05843-12 .....---

LPS INSTANT SUPER DEGREASER 2.0

An industrial strength degreaser with no brominated solvents, trichlo-rethylene or perchloroethylene for an improved health and safety profile.

Case of 12 ..... P/N 09-06057-12.....---

LPS® TKX® ALL-PURPOSE LUBRICANT

All purpose, value lubricant which displaces moisture, loosens rusted or frozen parts and protects metal against corrosion. Safe to use on most surfaces. High flash point of 175°F (79°C). Inverta Spray Valve allows user to spray in an upright or inverted position. NSF® H2 registration. 11oz. (312g) – aerosol..... P/N 09-00148 .....---

LPS® HDX HEAVY-DUTY DEGREASER *

• Nonflammable • Removes oil, grease, wax, dirt, moisture, tar, brake fluid and other contaminants • Fast evaporating • Low odor • Quick penetration • No residue • Non-conductive • NSF K1 registration # 059809: (aerosol); # 059810: (bulk)

19oz. (539g) – aerosol .....P/N 09-26407 .....---

LPS 1® PREMIUM LUBRICANT

Provides a dry, thin lubricating film. Resists oil, dust and dirt build-up. Fast acting penetration. Displaces moisture Loosens rusted or frozen parts. Provides a short term, light corrosion resistant barrier. Nonconductive Ideal for delicate mechanisms. Used worldwide in aviation. Safe on paint and most plastics.

11oz. (312g) – aerosol .....P/N 09-25900 .....---
1 gal. (3.78 l) .....P/N 09-26000 .....---

LPS 2® HEAVY-DUTY LUBRICANT

Strong, multi-purpose lubricant and penetrant with added corrosion protection. Provides a nondrying, light, oily film for use on indoor/outdoor equipment. Reduces wear caused by friction and corrosion. Displaces moisture Loosens rusted or frozen parts. Provides up to one year of protection. Nonconductive Safe on paint and most plastics. Inverta Spray Valve allows user to spray in an upright or inverted position. NSF® H2 registered.

11oz. (312g) – aerosol ..... P/N 09-26100 .....---
Case of 12 11 oz Cans ..... P/N 09-26100-12 .....---
20 oz. Spray ..... P/N 09-04752 .....---
Case of 12 20 oz Spray ..... P/N 09-04752-12 .....---
1 gal. (3.78 l) ..... P/N 09-26200 .....---
Case of 4 1 Gal ..... P/N 09-26200-4 .....---

LPS 3® PREMIER RUST INHIBITOR

• Forms a transparent, soft, waxy film for protection & lubrication • Inhibits rust & corrosion, protects steel parts indoors for up to two years • Penetrates to displace moisture • Does not contain chlorinated solvents or silicone • Safe on most surfaces • Stops rust and corrosion • Provides non-sling lubrication • Provides anti-seize coating • Inverta Spray Valve allows user to spray in an upright or inverted position • NSF® H2 registered #129027: (aerosol); #059849 (bulk)

11oz. (312g) – aerosol .....P/N 09-26300 .....---
20fl. oz. (591ml) – trigger .....P/N 09-01223 .....---
1 gal. (3.78 l) .....P/N 09-26400 .....---

LPS® QB PRECISION DUSTER *

Patented formula – Patented US #6,342,471. Electrical contact cleaner. Cleans electrical parts without harming plastics. • Non-flammable • Plastic safe • Non-conductive • No residue • Replaces HCFC 141b contact cleaners • Fast evaporating • Conforms to CARB VOC requirements.

10 oz. spray can..... P/N 09-26210 .....---

LPS 2® BELT DRESSING

LPS Belt Dressing is formulated to extend belt life, prevent belt slippage and resist water wash out. **Features**: • May be used in wet, outdoor conditions • Does not deteriorate drive belts • Eliminates squeaks from slipping belts • NSF® Certified: H1 Registration # 134508 8 Metal detectable plastic components-DETEX™ ..... P/N 09-04434 .....

LPS CHAINMATE® CHAIN & WIRE ROPE LUBRICANT

ChainMate® Chain & Wire Rope Lubricant is moly-fortified and will perform under severe loads and extreme temperatures. Fortified with molybdenum disulfide, increases chain and wire rope life, effective under extreme pressure and temperature ranges. Contains water displacing solvents to quickly penetrate into cracks and core of wire rope.....P/N 09-04778 .....---

LPS A-151 SOLVENT DEGREASER

LPS A-151 Solvent Degreaser 15oz.

Single.....P/N 09-05423 .....---
Case of 12 .....P/N 09-05423-12 .....---

STRONG STEEL STICKS

Easy-to-use, hand-kneadable stick for immediate repairs to steel equipment and surfaces. Ideal for stopping leaks, even works on underwater applications. Permanently fills gaps and holes in metal, concrete, wood, fiberglass, and ceramics. Has a working time of 4 minutes, and will fully cure in 30 minutes to form a durable mass which can be machined, drilled, and painted.

4 oz. stick .....P/N 09-26444 .....---

***ATTENTION: Volatile Organic Compounds (VOCs) Government Regulations: Product cannot be purchased, sold or used in the states listed below. CA, CT, DC, DE, IL, IN, ME, MD, MA, MI, NH, NJ, NY, OH, PA, RI, VA**

NOTE: FOR CASE OF 12 CANS OF LPS PRODUCTS ADD -12 TO THE PART NUMBER.

CS

LPS® PRESOLVE® ORANGE DEGREASER

• High performance industrial cleaner that cleans on contact • Ideal for removing grease, tar, oil & adhesives • Fast acting, deep penetration • Flash point above 100°F (38°C) • Non-conductive • Low residue • Safe on all metals and most plastics • Inverta Spray Valve allows user to spray in an upright or inverted position • NSF® C1 registered #129025: (aerosol); #059830: (bulk)

15oz. (425g) – aerosol ..... P/N 09-00311 ..... ---
1gal. (3.78l) ..... P/N 09-00312 ..... ---
5gal. (18.93l) ..... P/N 09-00313 ..... ---

LPS® ZEROTRI® HEAVY-DUTY DEGREASER

• Penetrating action instantly removes oil, grease, wax, dirt, moisture, tar and other contaminants • Removes conformal coatings • No ozone depleting chemicals • Fast evaporating • Safe to use on most surfaces • Does not contain chlorinated solvents • No rinsing, no residue • Inverta Spray Valve allows user to spray in an upright or inverted position • NSF® C1 registered #059845: (aerosol); #059846: (bulk) • Canadian Food Inspection Agency (CFIA) approved.

15 oz. spray ..... P/N 09-26470 ..... ---
5 Gallon ..... P/N 09-05360 ..... ---

LPS® U-10 BRAKE CLEANER

• Low VOC (Volatile Organic • Compounds) content • Complies with CARB/OTC (California Air Resources • Board/Ozone Transport Commission) Rules • Instantly removes brake fluid, dust, grease and oil • Improves brake performance • Helps stop disc brake squeal • Powerful jet spray and high solvency • Can be applied without disassembling the brake unit • No ozone depleting chemicals • Fast evaporating • Does not contain toluene • Does not contain chlorinated solvents • No rinsing or no residue • 14oz. (397g) – aerosol ..... P/N 09-02119 ..... ---

LPS® ELECTRO 140 CONTACT CLEANER

LPS Electro 140 Contact Cleaner is the high flash point, fast penetrating, non-residue cleaner alternative to CFCs for fine parts. The Electro 140 Contact Cleaner flash point is above 140°, making it safer to use in areas where flammability may be a concern. It is free of any known stratospheric ozone depleting substances - like CFCs, HCFCs, and 1,1,1 trichloroethane. Electro 140 has a low odor & is effective for flux removal and immersion cleaning.

11 oz.. Spray Can ..... P/N 09-26465 ..... ---

Warning: Due to VOC Regulations CA, OR, WA, CO states laws prohibit use, sell, or purchase of this product as of 01/2008.

LPS® MICRO-X CONTACT CLEANER

Quick penetration. Does not contain any chlorinated solvents. No residue. No rinsing. Fast drying. Safe on metal and plastics. Inverta Spray Valve lets you spray in upright or inverted position. Value Performance ..... P/N 09-00151 ..... ---

Warning: Due to VOC Regulations CA, OR, WA, CO states laws prohibit use, sell, or purchase of this product as of 01/2008. Replacement P/N for these states is # 09-02045. Listed below.

LPS® LVC CONTACT CLEANER

Reduced VOCs (Volatile Organic Compounds). Conforms to CARB (California Air Resources Board) requirements for. VOC emissions. Fast evaporating. Ideal for electronic and fine parts. Cleans and degreases delicate precision mechanisms. Safe on plastics. Penetrating action removes oil, grease, dirt, flux and other contaminants. Does not contain chlorinated solvents. No residue ..... P/N 09-02045 ..... ---

LPS® F-104 DEGREE SOLVENT DEGREASER

The moderate-evaporating, heavy-duty degreaser that removes contaminants in seconds. **Features**: • Heavy-duty degreaser • 104°F (40°C) flash point • Controlled evaporation • Safe to use on most surfaces • Non-conductive • No rinsing and no residue • Inverta Spray Valve allows one to spray in an upright or inverted position

12 oz. ..... P/N 09-05765 ..... ---

LPS® EVR CLEAN AIR SOLVET DEGREASER

• High solvent strength • Fast evaporation • Low VOC content • Complies with CARB/OTC (California Air Resources Board/Ozone • Transport Commission) Rules • Not a Hazardous Air Pollutant (HAP) • Instant cleaning action • Excellent replacement for Methyl Ethyl Ketone (MEK) • Ideal for cleaning metals • No residue • No ozone depleting compounds • Inverta Spray Valve allows user to spray in an upright or inverted position. 15 oz ..... P/N 09-02013 ..... ---
Case of 12 ..... P/N 09-02013-12 ..... ---

LPS 03116 ELECTRO CONTACT CLEANER

LPS® CFC-free electro contact cleaner is ideal for removing oil, grease, dirt, flux, and other contaminants. With 352.53 millimeters Hg vapor pressure at 38°C, this hydrocarbon-like odored cleaner has a specific gravity of 0.64 to 0.67 at 20°C and a boiling point of 140.9°F. It has 1 VOC contents that evaporate slowly without leaving any residues or stains. The product has an auto-ignition temperature rating of 582.8°F and can be stored at a temperature of 122°F.

11oz Aerosol ..... P/N 09-04286 ..... ---
Case of 12 ..... P/N 09-04286-12 ..... ---

MICRO-X NU FAST EVAPORATING CONTACT CLEANER

Conforms to the VOC regulations of CARB, OTC , and LADCO. Quick penetration. Safe on plastics. No residue. Ideal for electronic and fine parts. Does not contain any chlorinated solvents. Removes dirt, dust, flux and other contaminants. NSF Nonfood Compounds Program Listed Category Code: K2 Registration # 142149. Inverta Spray Valve lets you spray in an upright or inverted position.

Applications: • Circuit Breakers • Connectors • Contacts • Controls • Fluid Systems • Generators • Instrumentation • Keyboards • Magnetic Tape Heads • Motors • Office Equipment • Printed Circuits • Relays • Semiconductor Assemblies • Sensors • Switch Gears • Switches • Telecommunication Equipment • Telephone Equipment • Terminals • TV Tuners.

11oz aerosol ..... P/N 09-02563 ..... ---

G-49 ORANGE DEGREASER LOW VOC'S

Reduced VOCs. Instant cleaning action, no residue. Excellent for removing grease, grime, oil, and adhesives. High solvent strength. Moderate evaporation. Excellent alternative to Methyl Ethyl Ketone (MEK). Ideal for cleaning equipment. Not a Hazardous Air Pollutant (HAP). No ozone depleting chemicals (ODC). NSF® registered category code C1, registration #142147. Inverta Spray Valve ..... P/N 09-02372 ..... ---

TAPMATIC #1 GOLD

Tapmatic1 Gold Cutting Fluid is excellent tapping applications on all metals, including aluminum. It increases tool life while improving surface finish. #1 Gold does not contain chlorinated solvents, paraffins, water, or inactive fillers. Meets Boeing BAC 5008 Boeing D6-48809 ..... P/N 09-00159 ..... ---

PRECISION CLEAN

A multi-purpose concentrated cleaner/degreaser precisely formulated for industry; removes stubborn soils, greases, oils, sludge, and soot. **Features**: • Super industrial strength removes tough stains and soils • Does not contain butyl, chlorinated or petroleum solvents, bleach, ammonia, or abrasives • Safe on all surfaces except magnesium • Nonfood Compounds Program Listed Category Code: C1 Registration #059854(Bulk).

28 oz - Trigger Bottle ..... P/N 09-05761 ..... ---
5 Gallon. ..... P/N 09-04278 ..... ---

DRY FILM PTFE LUBRICANT

Dry Film PTFE is a high performance dry lubricant with strong bonding PTFE that is excellent for severe temperature and pressure applications. It is also a paintable mold release.

11 oz. Aerosol..... P/N 09-04832 ..... ---

LPS 03816 WHITE LITHIUM GREASE WITH PTFE

An ultra white, lithium-based, aerosol grease with PTFE additives for superior lubrication.

10oz Aerosol ..... P/N 09-04288 ..... ---
Case of 12 ..... P/N 09-04288-12 ..... ---

LPS PRECISION CLEAN MULTI-PURPOSE CLEANER DEGREASER

Precision Clean Multi-Purpose Cleaner Degreaser is a multi-purpose, concentrated cleaner/degreaser precisely formulated for industry; removes stubborn soils, greases, oils, sludge, and soot.

Single ..... P/N 09-04516 ..... ---
Case of 12 ..... P/N 09-04516-12 ..... ---
Gallon ..... P/N 09-04512 ..... ---
Case of 4 ..... P/N 09-04512-4 ..... ---

FORCE 842 DRY MOLY LUBRICANT

Designed for assembly and break-in lubrication applications, Force 842° prevents sliding or threaded parts from seizing together. Force 842° is fortified with molybdenum disulfide and provides a quick drying, thin film. It also works under high temperatures - 450°C and pressures - 6890 Bars. Force 842° resists dust and dirt and is also water and chemical resistant.

11oz Aerosol ..... P/N 09-04285 ..... ---
Case of 12 ..... P/N 09-04285 ..... ---

TAPMATIC AQUACUT CUTTING FLUID

• Water-based formula • Excellent in high speed cooling applications • Nonflammable • Non hazardous • Does not contain sulfur, chlorinated solvents, chlorine or oils • Safe on all metals, except magnesium • Corrosion inhibitors prevent flash rusting • Provides fine finishes • Pleasant cinnamon scent

16oz Bottle ..... P/N 09-02132 ..... ---
Case of 12 Bottles ..... P/N 09-02132-12 ..... ---

ELECTRO CONTACT CLEANER

The non-flammable, fast-evaporating contact cleaner for electronic parts.

Single ..... P/N 09-04529 ..... ---
Case of 12 ..... P/N 09-04529-12 ..... ---

NOTE: FOR CASE OF 12 CANS OF LPS PRODUCTS ADD -12 TO THE PART NUMBER.

LOCTITE THREADLOCKER

Loctite Threadlocker used on a standard fastener can eliminate expensive locking devices while you increase the reliability and quality of your assembly. One drop prevents loosening. 2 removable strengths for large & small applications and permanent strength for locking parts you never want to take apart.

#222 THREADLOCKER (permanent, for small screws)
10 ml ..... P/N 09-42605 ..... ---
50 ml ..... P/N 09-42610 ..... ---

#242 THREADLOCKER (removable, for large screws) (Blue)
.5 ml ..... P/N 15-07264 ..... ---
10 ml ..... P/N 09-42615 ..... ---
50 ml ..... P/N 09-42620 ..... ---

#262 THREADLOCKER (permanent, for large screws)
10 ml ..... P/N 09-42625 ..... ---
50 ml ..... P/N 09-42630 ..... ---

#271 THREADLOCKER (permanent locking and sealing of threaded fasteners up to 1' (25 mm) in diameter) (Red)
10 ml ..... P/N 09-04687 ..... ---

LOCTITE 515 GASKET ELIMINATOR

Henkel Loctite 515 Gasket Eliminator is a high viscosity, flexible sealant for use on rigid machined flanges. It provides resistance to low pressures immediately after assembly of flanges.
50 ml Tube ..... P/N 09-04568 ..... ---

LOCTITE® 609™ RETAINING COMPOUND

LOCTITE® 609™ Retaining Compound General Purpose is a low viscosity, rapid-curing anaerobic adhesive that augments the strength of press fit assemblies or slip fit assemblies up to 0.006" in diameter. Adds up to 3,000 psi holding power. Recommended for parts that will need subsequent dismantling, i.e., retention of bearings onto shafts and into housings. Mil Spec (R-46082B) Type I.
50 ml ..... P/N 09-04652 ..... ---

NIEL SEAL GASKET AND JOINT SEALING COMPOUND

N20-66 Seals threaded pipe joints, machined surfaces and flare nuts. Used on engine rear sections, sump gaskets, triple connector threads, channel plugs, air control valves, dump valve guides, water separator glasses, and for all metal-to-metal unions with any kind of gasket. A special paste-type density for threaded pipe joints, gasoline and carburetor connections, water heater fittings, gas range valves, etc.
1 Lb. Can Light Weight ..... P/N 04-03925 ..... ---
5 Lb. Can Light Weight ..... P/N 04-03971 ..... ---
1 Lb. Can Medium Weight ..... P/N 04-03972 ..... ---
5 Lb. Can Medium Weight ..... P/N 04-03973 ..... ---

PARKER-O-LUBE

This Lubricant is excellent for use on exposed valve plungers, cylinder rods, and other o-rings. It lubricates without causing deterioration of rubber and is water resistant. Good for low pressure vacuum and pneumatic systems.
2 oz. Tube ..... P/N 05-13059 ..... ---

LUBRIPLATE NO. 630AA

Multi-purpose lubricant. Forms a wearing film on working surfaces. Excellent protection against rust and corrosion. Recommended for controllable pitch props, wheel and magneto bearings, general greasing.
16 oz. Tub ..... P/N 09-25400 ..... ---
6 Lb. Container ..... P/N 09-25500 ..... ---

12/34 MIRACLE FORMULA LUBRICANT

Meets MIL Spec MIL-C-23411. 12/34 MIRACLE FORMULA® has the most effective ALL-IN-ONE formulation on the market today. Its lubricating, moisture displacing, penetrating and corrosion prevention is unsurpassed in any single product type of its kind. Don't accept substitutes, ask for 12/34 MIRACLE FORMULA® by name. **Lubricates**: Contains highly refined lubricants which provide superior protection and anti-wear properties. **Removes Moisture**: Moisture is lifted and displaced rather than trapped. Pores and crevices of surface are freed from moisture and are coated with a thin non-greasy film that prevents additional moisture from clinging or reentering. **Penetrates**: Rusted and frozen metal parts - nuts, bolts, studs, pins, etc. - are easily loosened by means of superior "creepability". **Prevents Rust & Corrosion**: Thin film adheres to metallic surfaces, providing positive temporary protection against the formation of rust and corrosion, including electrolysis and galvanic corrosion common in salt environments.
11 oz. aerosol ..... P/N 09-04443 ..... ---

STRIKE-HOLD CLEANER, LUBRICANT, PROTECTANT

Strikehold® is a fast-acting, penetrating compound that cuts through dirt, rust and corrosion, quickly getting into metal parts that have become frozen or encrusted. Strikehold® provides a long-lasting dry lubricant, which reduces friction. It helps dry out wet electrical gears and other water sensitive parts, and will actually improve electrical performance by cleaning and protecting contacts and internal parts, including circuitry and connections. Strikehold® protects by providing a shield-like film against the effects of moisture and corrosion, even against salt water, while repelling sand, dirt and dust.
12 oz Aerosol ..... P/N 09-06169 ..... ---
16 oz Trigger ..... P/N 09-06170 ..... ---
5 L Jug ..... P/N 09-06171 ..... ---

FOAMING SUPERIOR LUBRICANT

Tri-Flow is revolutionizing the way you clean, protect and lubricate all of your moving parts with the introduction of Foaming Superior Lubricant and Foaming Citrus Cleaner Degreaser. Tri-Flow's powerful foaming action clings to both horizontal and vertical surfaces to allow for deep penetration and accurate application. Tri-Flow Foaming products are ideal for use on bicycles, firearms, sporting equipment, manufacturing equipment, and more! ..... P/N 09-02082 .....

EZ TURN LUBRICANT (FUELUBE)

EZ Turn is a specialty lubricant/sealant used for fuel and oil line valves and is resistant to high temperatures. It is especially effective where high octane fuels and aromatics are present. EZ Turn is also extremely efficient as a gasket paste and anti-seize agent. EZ Turn will not gum, crack or dry out. Each shipment is independently tested. Excellent for tapered plug valves, aircraft engine manufacturing, and marine applications. EZ Turn is the functional equivalent of fuel lube.
5 oz. tube ..... P/N 09-00306 ..... ---
1 Lb. can ..... P/N 09-00180 ..... ---

DYKEM CROSS-CHECK TORQUE SEAL

DYKEM® Cross-Check™ provides a convenient visual method for identification of vibratory loosening or tampering in nuts, bolts, fasteners, and assemblies. Provides warranty protection against tampering. Marks will be easily broken if parts are tampered with or become loose. Highly visible under ambient light. Excellent adhesion to metal and other substrates. **Features**: • It's like a wax seal for critical holds and fastening • Tamper-Proof Torque Mark • Safe for most surfaces • Highly visible • Excellent adhesion • Visually detects loose nuts & bolts • Provides warranty protection • Dries to the touch: 1-2 hours • Fully cured: 24 hours • GHS compliant labeling • Two year shelf life • Boeing Specification: BMS8-45 Type II.

Description	Color	Size	Part No.	Price
Cross Check Torque Seal	Red	1 oz	09-02033-1	---
Cross Check Torque Seal	Yellow	1 oz	09-25807-1	---
Cross Check Torque Seal	Green	1 oz	09-25808-1	---
Cross Check Torque Seal	Blue	1 oz	09-25809-1	---
Cross Check Torque Seal	Orange	1 oz	09-25810-1	---
Cross Check Torque Seal	Gray	1 oz	09-04690-1	---
Cross Check Torque Seal	White	1 oz	09-02411-1	---
Cross Check Torque Seal	Pink	1 oz	09-04444-1	---

NOTE: FOR CASE OF 24 (1 OUNCE) TUBES ADD -24 TO THE PART NUMBER.

DYKEM® CROSS-CHECK™ PLUS AVIATION GRADE TORQUE SEAL - SKYDROL® RESISTANT

DYKEM® Cross Check Plus Skydrol®-Resistant Torque Seal® has been certified to meet the Boeing specification BMS8-45H Type I/III for a Skydrol-resistant, quick-dry tamper proof marker. This specification requires strict adherence to key performance properties such as dry-to-touch time, full cure time, Skydrol resistance, and dielectric strength, along with other critical physical, mechanical, and flammability requirements.

Description	Color	Size	Part No.	Price
Cross Check Plus Skydrol Resistant Tamper Evident Lacquer	Blue	1 oz	09-05509	---
Cross Check Plus Skydrol Resistant Tamper Evident Lacquer	Yellow	1 oz	09-25811-1	---
Cross Check Plus Skydrol Resistant Tamper Evident Lacquer	Pink	1 oz	09-03486-1	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BOELUBE LUBRICANTS

A Space Age Lubricant developed by The Boeing Company that fights friction at the interface of the cutting edge and the workpiece.The reduction of friction at these surfaces minimizes heat generation and concurrent chip weld. Tools retain their cutting edge longer, leading to closer tolerances and prime chip yield. Manufactured frompersonal care ingredients, Boelube is non-toxic, non-irritating and biodegradable. Boelube is non-corrosive, non-flammable, chemically stable and free of halogens, heavy metals, sulfur, phosphorus, silicone, petroleum or paraffin wax.

BOELUBE® BL70200-13 SOLIDS LUBRICANT

Provides a cost effective means of producing a high quality finish in a multitude of applications such as: Drilling - Tapping - Reaming - Abrasive Belts - Files - Deburring Tools - Grinding Wheels - Chisels - Band, Circular and Hand Saw Blades. Boelube® Solids improve tool life by reducing heat build-up in belt, disc or wheel grinding operations. Apply the push-up tube to the tool before start up. Individual Boelube Blocks are ideal for grinding operations.

1.6 oz Push Tube.....P/N 09-01731 ..... ---

BOELUBE® HIGH EFFICIENCY MACHINING LIQUID LUBRICANT

Boelube® 70104 / 70106 are a series of proprietary liquid lubricants developed through Boeing manufacturing operations and lubricant experience. In the near dry machining process, Boelube® Liquid can be delivered as fine droplets or spray through one or more nozzles positioned accordingly around the cutting tool. Delivering the Boelube liquid as fine droplets to the cutting edge is necessary in order to reduce friction between the chip, tool, and workpiece, and prevent chips from adhering to the tool cutting edge. Does not contain Silicone, Sulfur, Halogens (such as Chlorine), Phosphorus, Paraffin Wax, Petroleum or Heavy Metals.

4 oz Bottle .....P/N 09-01734 ..... ---
Gallon .....P/N 09-01733 ..... ---

BOELUBE® BL70307L MEDIUM PASTE

Boelube® Pastes provide excellent lubricity and are extremely cost effective in single point work such as Tapping, Drilling and Reaming. A small amount of Paste applied to the tool is all that is required to obtain a high quality finish and extended tool life with little or no clean-up required. Brush it on or dip tool in paste. Boelube® pastes are also ideal for Forming and Bending as well as in Drop Hammer, Verson Press and Spin Forming applications. Boelube® Pastes provide closer tolerance parts and extended diaphragm and die life. We furnish 70307 medium (blue) paste.

4 oz Jar.....P/N 09-01735 ..... ---

PERMATEX ANTI-SEIZE LUBRICANT

Prevents galling, seizing and corrosion of metal parts from 65°F to 2000°F. Acts as a low speed lubricant and maintains a corrosion-resistant coating at high temperatures. Makes aluminum and stainless steel joints disassemble quickly, easily. Excellent lubricant for press fit assembly. Works on industrial engine parts, boilers, outdoor motors, cables and internal combustion engines. Conforms to MIL-A-907D. Improves reliability at high temperatures. Saves time, labor.

1 oz. tube.....P/N 09-28410 ..... ---

MICROLON PRECISION OILER

This oiler has the famous Microlon resin suspended in a lightweight oil to lubricate, penetrate and prevent rust. It is excellent for lubricating bearings, threaded parts, hinges, pocket knives, chains, rollers, fishing gear, chain saws, guns, garage doors.....just about anywhere that friction causes noise and resistance. Furnished in a handy pen size oiler with a pocket clip.

.25 Fluid Ounces ..... P/N 09-00756 ..... ---

GARD DELUXE TAPPING FLUID

GARD deluxe tapping fluid. Reduce breakage and cut precision threads.

8 oz .....P/N 08-17469 ..... ---

GARD ANAEROBIC THREAD LOCKING FLUID

10ML of Gard Anaerobic Thread Locking Fluid. 5905-TLF-10ML.

Applications: Exclusively developed for the installation of GARD Pipeserts and certain Spark Plug repair applications.

P/N 08-17456 ..... ---

LOCTITE QUICKSTIX SILVER GRADE ANTI-SEIZE STICK

The Silver Anti-Seize Stick is a heavy-duty, temperature resistant, petroleum-based lubricant compound fortified with graphite and metallic flake. Will not evaporate or harden in extreme cold or heat. Use during assembly to prevent seizing, galling and corrosion. For use in assemblies up to 1600°F (871°C). Great for removal of spark plugs, cylinder head and exhaust head bolts.....P/N 09-05708 ..... ---

LOCTITE BLACK HIGH PERFORMANCE RTV SILICONE GASKET MAKER

Loctite® 598™ Black High Performance RTV Silicone Gasket Maker retains high flexibility and oil resistance for longer gasket life. Temperature range is -75°F to 625°F (-59°C to 329°C) intermittent. Low odor, non-corrosive. Resistant to most chemicals and solvents. Fills gaps to 0.25".

P/N 09-03532 ..... ---

LOCTITE QUICKSTIX C5-A COPPER ANTI-SEIZE

Loctite® QuickStix™ C5-A® Copper Grade Anti-Seize Stick provides a shield against high temperature seizing and galling. All mated parts, studs, bolts, flanges and gaskets, remove more easily and in cleaner and better condition. This product can be used on copper, brass, cast iron, steel, all alloys including stainless steel, all plastics and all non-metallic gasketing materials. Protects metal parts to 1800°F. Prevents rust, corrosion, seizing; eases disassembly. Fine or coarse threads.....P/N 09-03533 ..... ---

LOCTITE® 640™ RETAINING COMPOUND PRESS FIT

Loctite® 640® Retaining Compound is a low viscosity, high strength acrylic adhesive designed for bonding cylindrical fitting parts. It prevents loosening and leakage from shock and vibration. This product complies to MIL-R-46082.

Applications: • A medium viscosity retaining compound that resists temperatures up to 400ºF • Applicable to most metals • Multi-Purpose Compound • Shear Strength : 3000 PSI

P/N 09-05718 ..... ---

LOCTITE 5910 RTV SILICONE FLANGE SEALANT

Henkel Loctite 5910 is a one component RTV silicone designed for applications where good oil resistance and ability to withstand high joint-movement is required. 300 mL Cartridge.

Typical applications include stamped sheet metal covers (timing covers and oil sumps) where good oil resistance and the ability to withstand high joint-movement is required.

Black 300ml .....P/N 15-07265 ..... ---

WD-40 MULTI-USE PENETRANT / LUBRICANT

WD-40 Multi-Use Product protects metal from rust and corrosion, penetrates stuck parts, displaces moisture and lubricates almost anything. WD-40 Multi-Use Product Industrial Size is perfect for big jobs that require a large amount of WD-40 Multi-Use Product in one place.

WD-40® Multi-Use Product lubricates moving parts such as hinges, wheels, rollers, chains, and gears. It protects against rust and corrosion on items like tools, and sporting equipment. It penetrates to free stuck corroded parts like nuts, bolts, valves and locks. It quickly removes adhesives, corrosion and paint. It displaces moisture to restore water flooded equipment such as engines, spark plugs and power tools.

P/N 09-05864 ..... ---

TAPMATIC #1 GOLD CUTTING FLUID

Great for all metals including aluminum. Increases tool life and improves surface finish. Requires less product usage than traditional cutting fluids. Does not contain chlorinated solvents or chlorinated paraffins. Reduces cutting torque and improves cutting efficiency. Does not contain water, solvents, or inactive fillers. Excellent for tapping applications.

Meets Boeing BAC 5008 Specification.

Single.....P/N 09-26500 ..... ---
Case of 12 .....P/N 09-26500-12 ..... ---

CS

LOGO DECALS

AUTHENTIC AIRCRAFT LOGO DECALS

Our full line of authentic aircraft logos are produced on state-of-the-art long lasting UV coated pressure sensitive adhesive vinyl. They are precision cut by a specially programmed computer and have no clear background. Other brands of decals can be produced cheaply but the clear background tends to yellow, rendering unsightly over time. With our custom cut decals, only the letters themselves go on the aircraft giving the lettering a truly professional look which will last as long as the aircraft paint. Please order by part number shown. Many other logos and styles are available, as well as other colors. Call for quotation or send $2.00 for our complete logo and decal catalog. For quote on custom logo decals, send sketch and details.

AERONCA

5.75"h x 13.25"w
Black....09-43502 .....---
White ...09-43504 .....---

DECATHLON

1-5/8"h x 10-3/4"w
Black ...09-43506 .....---
White ...09-43508 .....---

BELLANCA BELLANCA

Black, Gold, White
6"h x 8.75"w
09-43509 .....--- pr.

Citabria

2"h x 9-1/2"w
Black.....09-43516
White 09-43518
--- ea

Cessna

Black.....09-43519
White 09-43522
Red.....09-43524
Blue 09-43526
6"h x 10.5"w --- /pr

Cessna
Cessna

Black.....09-43528
White 09-43529
Red.....09-43532
Blue 09-43534
6"h x 10.5"w --- pr

cessna

Black.....09-43536
White 09-43538
2"h x 10.5"w --- ea

CESSNA

Black.....09-43540
White 09-43542
Gold.....09-43544
2"h x 8.25"w --- ea.

Cardinal

Black.....09-43546
White 09-43548
4-1/4"h x 10"w --- ea.

SKYLANE

Black.....09-43550
White 09-43552
1.75"h x 10"w --- ea.

SKYLANE

Black.....09-43554
White 09-43556
2.25"h x 8.5"w --- ea

SKYWAGON 180

Black.....09-43558
Silver.....09-43560
1.25"h x 14.5"w --- ea

CENTURION

Black.....09-43562
White 09-43564
1.5"h x 15.5"w --- ea

Gold.....09-43566
6.25" Diameter --- pr

Turbo CENTURION II

2.937"hx18.75"w
Black.....09-43568
White 09-43570
--- ea

SKYHAWK

Black.....09-43572
White 09-43574
1.5"h x 13"w --- ea

Skyhawk

Black.....09-43576
White 09-43578
4.5"h x 9.5"w --- ea

17.5"hx8.875"w
Gold Bkgrnd, Black Border
P/N 09-43580 .....--- pr.

Skymaster

Black.....09-43582
White 09-43584
5"h x 8.75"w --- ea.

Mooney

Black.....09-43586
White 09-43588
1.75"h x 8"w --- ea.

Small Black.....09-43587
Small White 09-43589
4"h x 10"w ---pr.

Large Black 09-43591
Large White.....09-43593
7.75"h x 19"w --- pr.

CUB

Full Color 09-43598
8.5"h x 7.75"w --- ea

PIPER

Red & Blue
09-43500 .....--- ea
Black
09-43602 .....--- ea
2-1/2"h x 5"w

PIPER

Black.....09-43604
White 09-43606
2"h x 8.75"w --- ea

Piper

Black.....09-43608
White 09-43609
2.5"h x 11.25"w --- ea

CHEROKEE 140

Black.....09-43612
1.5"h x 11-3/8"w --- ea

CHEROKEE 180 D

Black/Silver.....09-43616
White 09-43618
1.5"h x 12.5"w --- ea

Archer II

Black.....09-43619
White 09-43622
2.75"h x 10"w --- ea

Warrior II

Black.....09-43624
White 09-43626
3"h x 11"w --- ea

Arrow

Black.....09-43628
White 09-43629
2.75"h x 6-1/8"w .....--- ea

CHEROKEE SIX E

Black.....09-43632
Silver.....09-43634
1.5"h x 13"w --- ea

Comanche C

Black.....09-43636
White 09-43638
1.25"h x 12.75"w.....--- ea

PIPER SENECA

Red&Black w/Silver Bkgrnd
09-43640
2-1/8" x 61/2" --- ea

Super Cub

Black.....09-43642
White 09-43644
1.5"h x 7.75"w --- ea

Beechcraft

Black
09-43646 .....--- ea
White
09-43648 .....--- ea
Gold
09-43650 .....--- ea
4-1/8"h x 13-1/2"w

Baron

Black.....09-43652
White 09-43654
3"h x 7"w --- ea

Bonanza

Black.....09-43656
White 09-43658
3"h x 9"w --- ea

Black.....09-43660
White 09-43662
2.5"h x 8.5"w --- ea

Luscombe

Blue on Silver 09-43664
2.5"h x 7"w --- ea

MAULE

Black.....09-43666
White 09-43668
2-7/8"h x 17"w --- ea

TURBO

Black.....09-43670
White 09-43672
2.5"h x 17-3/8"w .....--- ea

TURBO CHARGED

Black.....09-43674
White 09-43676
1"h x 10-7/8"w --- ea

Pitts

Black.....09-43678
White 09-43680
4"h x 12"w --- ea

SPECIAL

Black.....09-43682
White 09-43684
1"h x 5"w --- ea

TAYLORCRAFT

Black.....09-43686
White 09-43688
2.5"h x 18-5/8"w --- ea.

Glasair III

Black.....09-43690
White 09-43692
2.25"h x 17"w --- ea

Glasair

Black.....09-43694
White 09-43696
2.75"h x 15.75"w.....--- ea

LANCAIR

Black.....09-43698
White 09-43700
2.5"hx 8.75" --- ea

PULSAR

Black.....09-43702
White 09-43704
3"h x 14.5"w --- ea

RANS

Black.....09-43706
White 09-43708
2"h x 9.5"w --- ea

FAIRCHILD

Black.....09-43709
White 09-43712
3.25"h x 8.75"w --- ea

Stearman

Black 09-43718
White 09-43719
4"h x 19"w --- ea

Swift

Black.....09-43722
White 09-43724
Gold outline on both.
3"h x 5.5"w --- ea

WACO CLASSIC

09-43728
(Black, Red, Gold)
2-3/8"hx14.25"w --- ea

Small: 4"H x 8"W
Left.....09-43732-1.....---
Right ..09-43732-2.....---

Large: 6"H x 12"W
Left.....09-43734.....---
Right ..09-01955.....---

CS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

LOGO DECALS

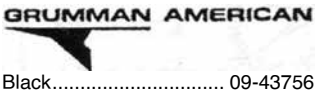
3" ..... 09-43740 ..... --- ea
4.5" ..... 09-43741 ..... --- ea
Not available in lefts and rights only available as shown.

Full Color 09-43748
2"h x 6.75"w --- ea

Black & Silver 09-43751
1.25"h x 8-3/8"w --- ea

Black 09-43752
4-7/8"h x 12-7/8"w --- ea

09-43755(White) ..... --- ea.



Black 09-43756
White 09-43757
3.5"hx16-5/8"w --- ea

Black 09-43758
White 09-43759
5/8"h x 8.25"w --- ea

Black 09-43742
White 09-43743
1"h x 4.25"w --- ea

Black 09-43744
White 09-43745
5"h x 12"w --- ea

Full Color-screened 09-43764
8.25"h x 9"w --- ea

Black 09-43746
2.25"h x 6.75"w --- ea

Black 09-43780
White 09-43781
9.25"h x 23.5"w --- ea

Black 09-43782
3.25"h x 3.25"w --- ea

Left, Black 09-43784
Right, Black 09-43785
5.25"h x 5-3/8"w --- ea

Black 09-43788
8"h x 16"w --- ea

White 09-43791
2-1/8"h x 8.25"w --- ea

Black 09-43792
9-7/8"h x 46.75"w --- ea

Black 09-43796
White 09-43797
3-3/8"h x 11.5"w --- ea

Black & Silver 09-43798
2.5"h x 12"w --- ea

B lack 09-43800
White 09-43801
1"h x 9-1/8"w --- ea

Black 09-43802
1.5"h x 13"w --- ea

Black 09-43806
5.75"h x 13.25"w --- ea

Black 09-43808
White 09-43809
2.5"h x 12.75"w --- ea

Black 09-43811
1"h x 10"w --- ea

Left, Black 09-43813
Right, Black 09-43814
Left, White 09-43816
3"h x 3.5"w --- ea

Black 09-43774
4-3/8"h x 10"w --- ea

Black 09-43778
White 09-43779
4-3/8"h x 10"w --- ea

Black 09-43822
White 09-43823
1.75"h x 8.75"w --- ea

Left, Black 09-43824
Right, Black 09-43826
Left, White 09-43827
Right, White 09-43828
4-3/8"h x 5-7/8"w --- ea

Black 09-43829
White 09-43831
2.75"h x 19"w --- ea

Left,Black 09-43832
Right,Black . 09-43833

1.5"h x 11.75"w --- ea.

Left, Black 09-43837
Right, Black 09-43838
1.5"h x 7.5"w --- ea

Black 09-43841
White 09-43842
1.5"h x 7.5"w --- ea

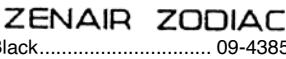
Black 09-43843
2"h x 12.5" --- ea

Black & Gold 09-43845
2.5"h x 10.5"w --- ea

Black 09-43749
White 09-43750
3.5"h x 7.5"w --- ea

Black 09-43848
White 09-43849
1.25"h x 8.5" --- ea

Black 09-43850
White 09-43851
5"h x 20"w --- ea



Black 09-43852
White 09-43853
1"h x 14.25"w --- ea

Black 09-43765
White 09-43766
3"h x 6.75"w --- ea

CS

LOGO DECALS

CS

CENTURION
CL-311-1-3/16"h x 10-3/4"w
P/N 09-43981 (Blk)
P/N 09-43982 (Wh)
--- ea.

stationair
CL-137 - 1-1/2"h x 14-1/2"w
P/N 09-43983 (Blk)
--- ea.

SKYMASTER
CL-359 - 1-1/2"h x 11-1/2"w
P/N 09-43985 (Blk)
P/N 09-43986 (Wh)
--- ea.

SKYMASTER 337
CL-179 - 1-1/2"h x 15-1/8"w
P/N 09-43987 (Blk)
--- ea.

Golden Eagle
CL-126 - 2-1/2"h x 13-5/8"w
P/N 09-43989 (Blk),
--- ea.

421 GOLDEN EAGLE
CL-299L&R - 1-5/8"h x 24"w
09-43992 (Blk)
09-43994 (Gd)
--- ea.

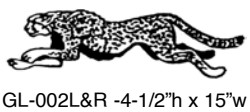
CHRISTEN HUSKY
CH-060 - 3/4"h x 7-1/4"w
P/N 09-43997 (Blk)
P/N 09-43998 (Wh)
--- ea.

Curtiss
CR-031 - 6-3/8"h x 12"w
P/N 09-43999 (Blk)
P/N 09-44001 (Wh)
(up to 15"w) --- ea.

EXTRA 200
ET-001 - 1-3/4"h x 15-1/2"w
P/N 09-44002 (Blk)
P/N 09-44003 (Wh)
--- ea.

EXTRA 300
ET-002 - 1-3/4"h x 15-1/2"w
P/N 09-44004 (Blk)
P/N 09-44006 (Wh)
--- ea.

Funk
FU-002 - 4-3/4"h x 16-1/2"w
P/N 09-44007 (Blk)
P/N 09-44008 (Wh)
--- ea.


GL-002L&R - 4-1/2"h x 15"w
(Full Color on Tail)
P/N 09-44009
--- ea.

GULFSTREAM
GL-016 - 3/4"h x 5-1/2"w
P/N 09-44011 (Blk)
--- ea.

Learjet
LE-001 - 3-1/8"h x 10-1/4"w
P/N 09-44013 (Blk)
P/N 09-44014 (Wh)
--- ea.

Meyers 200
MR-001 - 1"h x 5-1/2"w
P/N 09-44016 (Blk)
P/N 09-44017 (Wh)
--- ea.

MOONEY Ranger
ML-053L&R - 1-1/2"h x 9"w
P/N 09-44018 (Blk)
--- ea.

ML-037 - 1-1/4"h x 8-3/4"w
Mooney 201
(Black, White or OPT. Wing Tip)
P/N 09-44021 (Blk)
P/N 09-44022 (Wh)
--- ea.

Turbo Mooney 231
ML-017 - 1-3/4"h x 18"w
P/N 09-44023 (Blk)
--- ea.

TLS
ML-012 - 1-1/2"h x 4-1/4"w
P/N 09-44026 (Blk)
P/N 09-44027 (Wh)
--- ea.

Ryan Navion
RYAN AERONAUTICAL CO. SAN DIEGO
NL-004 - 3-1/4"h x 12"w
P/N 09-44028 (Blk)
P/N 09-44029 (Wh)
--- ea.

Fly Baby
PL-128 - 2-1/4"h x 18-1/2"w
P/N 09-44031 (Blk)
P/N 09-44032 (Wh)
--- ea.

LANCE
PL-248 - 1-1/2"h x 10"w
P/N 09-44033 (Blk)
--- ea.

LANCE II
PL-073 - 1-5/8"h x 14-1/4"w
P/N 09-44036 (Blk)
P/N 09-44037 (Wh)
--- ea.

APACHE
PL-116 - 2-3/8"h x 10-7/8"w
P/N 09-44038 (Blk)
P/N 09-44039 (Wh)
--- ea.

aztec
PL-058 - 1-3/4"h x 3-1/2"w
P/N 09-44041 (Blk)
P/N 09-44042(Wh)
--- ea.

DAKOTA
PL-0191- 1/8"h x 9-1/2"w
P/N 09-44043 (Blk)
--- ea.

SEMINOLE
PL-020 - 1-1/2"h x 15"w
P/N 09-44046 (Blk)
--- ea.

NAVAJO
PL-091 - 3"h x 23-1/2"w
P/N 09-44048 (Blk)
--- ea.

CHIEFTAIN
PL-083 - 2"h x 20-5/8"w
P/N 09-44051 (Blk)
--- ea.

RL-018 - 6-1/2"h x 7"w
P/N 09-44053 (Blk)
--- ea.

Commander 112
RL-027 - 3"h x 21-1/2"w
P/N 09-44056 (B/W)
--- ea.

Commander 112B
RL-016 - 3"h x 16-1/2"w
P/N 09-44058 (B/G)
--- ea.

Commander 112TC
RL-025 - 2-7/8"h x 22-1/2"w
P/N 09-44061 (B/W)
--- ea.

VELOCITY
VL-005 - 3"h x 13"w
P/N 09-44063 (Blk)
P/N 09-44064 (Wh)
--- ea.

THE WACO AIRCRAFT CO.
WL-004 - 3-1/4"h x 15-1/4"w
P/N 09-44066
(Black, Gold, & Red)
--- ea.

Barracuda
HB-017 - 2"h x 2-1/2"w
P/N 09-44069 (Blk)
--- ea.

Coyote
HB-038 - 2-1/4"h x 12"w
(Wing Tip) 09-44072 (Blk),
--- ea.

Diamond AIRCRAFT
HB-139 - 3-3/4"h x 19"w
P/N 09-44076 (Wh)
--- ea.

InStar
HB-124 4- 1/2"h x 16-1/2"w
P/N 09-44077 (Blk)
P/N 09-44078 (Wh)
--- ea.

Katana DA20
HB-126 - 8"h x 24-1/4"w
P/N 09-44079 (Blk)
P/N 09-44080 (Wh)
--- ea.

KITFOX
HB-023 - 1"h x 4-1/4"w
P/N 09-44082 (Blk)
--- ea.

LANCAIR IV
HB-027 - 2-1/2"h x 12"w
P/N 09-44084 (Blk)
--- ea.

LANCAIR IV P
HB-102 - 2-1/2"h x 14-3/4"w
P/N 09-44087 (Blk)
P/N 09-44088 (Wh)
--- ea.

LANCAIR ES
HB-046 - 3-1/8"h x 10-7/8"w
P/N 09-44089 (Blk)
--- ea.

LANCAIR SUPER ES
HB-090 - 3-1/4"h x 12-1/2"w
P/N 09-44091 (Blk)
--- ea.

quickie
HB-125 - 2-1/2"h x 8-1/2"w
P/N 09-44093 (Blk)
P/N 09-44094 (Wh)
--- ea.

QUICKSILVER
HB-104 - 5-1/2"h x 28"w
P/N 09-44097 (Multi-color)
--- ea.

RANS S7
HB-057 -3-1/4"h x 25-1/4"w
P/N 09-44101 (Blk)
--- ea.

RANS S10
HB-057 - 3-1/4"h x 25-1/4"w
P/N 09-44103 (Blk)
--- ea.

RV-4
HB-098L&R- 5-1/4"h x 13"w
P/N 09-44106 (Blk)
P/N 09-44107 (Wh)
--- /pr

RV-6
HB-097L&R - 5-1/4"h x 13"w
P/N 09-44108 (Blk)
P/N 09-44109 (Wh)
--- ea.

RV-8
HB-096L&R -5-1/4"h x 13"w
P/N 09-44111 (Blk)
P/N 09-44112 (Wh)
--- ea.

Starlet
HB-015 - 3"h x 6-1/2"w
P/N 09-44113 (Blk)
--- ea.

Wag-A-bond
HB-016 - 2"h x 12"w
P/N 09-44116 (Blk)
--- ea.

Wheeler
HB-035 - 1-1/4"h x 6-7/8"w
P/N 09-44118 (Blk)
--- ea.

ZENAIR
HB-065 - 1-1/4"h x 8-1/2"w
P/N 09-44121 (Blk)
P/N 09-44122 (Wh)
--- ea.

ROBERTSON/STOL
MS-070 - 2-1/2"h x 20"w
P/N 09-44126 (Blk)
--- ea.

MS-050 - 3-1/2"h x3-1/2"w
09-44128 (Blk)
--- ea.

MS-061 - 3"h x 3-1/2"w
P/N 09-44131
White lettering on red.
--- ea.

AMA
MS-061 - 3"h x 3-1/2"w
P/N 09-44133 (Rd)
P/N 09-44134 (Wh)
--- ea.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

LOGO DECALS

AC-001 - 7"h x 8"w
P/N 09-01967
White, Blue, & Yellow
--- ea.

AC-002 - 7"h x 8"w
P/N 09-43221
White, Red, & Black
--- ea.

CHAMP

AL-007 – 1"h x 8-1/8"w
P/N 09-43922 (Blk), 09-43923 (Wh),
09-43926 (Silver).....**--- ea.**

Sundowner

BE-021 – 1/2"h x 12"w
P/N 09-43927 (Blk), 09-43928 (Wh)
--- ea.

Sierra

BE-030 – 4.75"h x14.5"w
P/N 09-43929 (Blk).....**--- ea.**

Decathlon

BL-065 – 2"hx10-7/8"w
P/N 09-43932 (Blk), 09-43933 (Wh)
--- ea.

BELLANCA SUPER VIKING

BE-005 – 1.5"h x 18"w
White Left & Right (pair)
P/N 09-43936 .....**--- ea.**
(Gold Wing Black type) Right side
P/N 09-43934 .....**--- ea.**

8"h x 7-3/4"w
P/N 09-43939
(Black, Red, Blue)
--- ea.
P/N 09-43940 (Black)
--- ea.

CL-089
2"h x 3-3/4"w
P/N 09-43941
(Full Color)
--- ea.

CL-225 – L & R
6"h x 10-1/2"w
P/N 09-43942 (Blk)
P/N 09-43943 (Wh)
---/pr

CL-071 – L & R
6"h x 10-1/2"w
P/N 09-43944 (Blk)
P/N 09-43945 (Wh)
---/pr

CL-071 – L & R
6"h x 10-1/2"w
P/N 09-43946 (Blk)
P/N 09-43947 (Wh)
---/pr

CL-257L & R
6"h x 10-1/2"w
P/N 09-43948 (Blk)
P/N 09-43949 (Wh)
--- /pr

CL-112L & R
6"h x 10-1/2"w
P/N 09-43950 (Blk)
P/N 09-43951 (Wh)
--- /pr

CL-340 - L & R
6"h x 10-1/2"w
P/N 09-43952 (Blk)
P/N 09-43953 (Wh)
--- pr.

CL-214 - L & R
6"h x 10-1/2"w
P/N 09-43954 (Blk)
P/N 09-43955 (Wh)
--- pr.

CL-487 - L & R
6"h x 10-1/2"w
P/N 09-43956 (Blk)
--- pr.

CL-032L & R
6"h x 10-1/2"w
P/N 09-43958 (Blk)
P/N 09-43959 (Wh)
--- pr.

CESSNA 150

CL-454 – 1"h x 27"w
(Black, White or OPT.)
P/N 09-43960 (Black)
P/N 09-43961 (White)
---ea.

CESSNA 206

CL-164 – 1-1/2"h x 15-1/2"w
(Black, White or OPT.)
P/N 09-43962 (Black)
P/N 09-43963 (White)
--- ea.

CESSNA 310

CL-297 – 1-1/2"h x 10-1/4"w
(Black, White or OPT.)
P/N 09-43964 (Black)
--- ea.

CESSNA 340

CL-327 – 2"h x 3-3/4"w
P/N 09-43966 (Blk/Wh)
P/N 09-43967 (Blk/Gd)
--- ea.

SKYHAWK

CL-178 – 1-1/8"h x 9"w
P/N 09-43968 (Black)
P/N 09-43969 (Silver)
--- ea.

SKYHAWK II

CL-102 (Black, White)
1/3/4"h x 11-1/2"w
P/N 09-43972 (Blk)
P/N 09-43973 (Wh)
--- ea.

Superhawk

CL-485 (Black, White or OPT.)
4"h x 12.5"w....P/N 09-43977 (Blk)
P/N 09-43978 (Wh)
--- ea.

AMERICAN FLAG DECALS

Sold In Pairs Only

STRAIGHT
P/N 09-429– –

SLANTED
P/N 09-430– –

WAVY
P/N 09-431– –

Height	Straight		Slanted		Wavy	
	Width	Price	Width	Price	Width	Price
4"	7.5"	---	7-1/2"	---	6"	---
6"	10.5"	---	10-3/4"	---	9"	---
8"	14"	---	14-1/2"	---	12"	---
10"	17.5"	---	18-1/4"	---	15"	---
12"	20.5"	---	21-1/4"	---	18"	---

Please order by part number. Use basic part number at top of chart, and complete part number with height of decal. Example: Wavy flag, 8" high is P/N 09-43108. Prices per pair (left & Right).

STARS & BARS

1943
Between 29 June and 14 August, the official national insignia incorporated white sidebars and an overall red surrounding outline and blue surrounding the star.

1943-1947
The red surround of the official insignia was quickly changed to a *blue surround* During its 4 years use this insignia appeared on more aircraft than all its predecessors combined.

1947-Present
With the reorganization of the Defense Department and the creation of the USAF, red bars were added to the official national insignia. A variation of this insignia appears officially without the blue surround on F-15 aircraft.

P/N 09-432– –

P/N 09-433– –

P/N 09-434– –

STYLE 4A

1917, 1921-1941
Introduced prior to the American entry into World War I and officially adopted after the war.

STYLE 6A

1942-1943
Some aircraft in the European and Mediterranean theaters unofficially incorporated a yellow surround in British style.

P/N 09-436-- P/N 09-439--

PRICING

Size	Style 1	Style 2	Style 3	Style 4A	Style 6A
10"	---	---	---	---	---
15"	---	---	---	---	---
20"	---	---	---	---	---
25"	---	---	---	---	---
30"	---	---	---	---	---
35"	---	---	---	---	---

Please order by part no. Use basic part no. under each style number and complete part no. with size of decal. Example: Style 3 decal in 25" size is P/N 09-43425

CESSNA Piper

Size 2-1/2" x 15" **Size 2-1/2" x 11"**

Distinctive aircraft identification names, either stencils for painting or black vinyl lettering for easy press-on application.

Aircraft	Vinyl		Stencils	
	Part No.	Price/Set	Part No.	Price/Set
Cessna	09-33800	---	09-33900	---
Piper	09-34000	---	09-34100	---

PROPELLER DECALS

Sold In Pairs Only

09-42830 .....**--- pr.**

09-42832 .....**--- pr.**

09-42836 .....**--- pr.**

09-42834 .....**--- pr.**

Black
09-42838 .....**--- pr.**
White
09-02986 .....**--- pr.**

09-42840 .....**--- pr.**

CS

U.S. FLAG DECALS

Proudly display the Red, White, & Blue. Colorful vinyl pressure-sensitive U.S. Flag decals in right & left hand pattern.

2.5" x 4".....P/N 13-01485 ..... ---
4" x 6.5".....P/N 09-35400 ..... ---
6" x 10.5".....P/N 09-35500 ..... ---

AIRCRAFT SPRUCE LOGO DECALS

These royal blue on white self-adhesive oval shaped decals of the Aircraft Spruce & Specialty Company logo look great on your airplane, bumper, reference books, etc. Available in 3 sizes.

4" wide ..... P/N 09-40400 .....**FREE**
8" wide ..... P/N 09-40410 .....**FREE**
18" wide ..... P/N 09-40420 .....**FREE**

AIRCRAFT SPRUCE PATCH

This is an embroidered patch, oval in shape, and approximately 3-1/2", colors are Red/White/Blue. ..... P/N 13-02703 ..... ---

CHECKLIST PLACARDS

Fixed gear, Fixed prop
P/N 09-42816 ..... ---

Fixed gear, Variable prop
P/N 09-42818 ..... ---

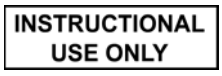
Retractable gear, variable prop
P/N 09-42820 ..... ---

Flight Plan Sequence
09-42822 ..... ---

VFR minimums
09-42824 ..... ---

Emergency
09-42826 ..... ---

Transponder Codes
09-42828 ..... ---



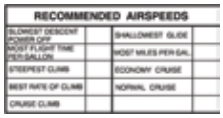
INSTRUCTIONAL USE ONLY PLACARD – Used on Part 103 exempted 2-seat ultralights. Available in pre-spaced vinyl lettering in your choice of colors. Size 3" x 10"
Vinyl Lettering ..... P/N 09-43901 ..... ---

HOT EXHAUST – Black & red on white decal. Measures 1.5"x 4". A must where muffler can can be accidentally touched or brushed up against during aircraft servicing or entry.
P/N 09-43902 ..... ---

OPEN ARROWS – Custom computer cut decals to indicate operation of door handles. Specify arrow CW or arrow CCW. Arrow and "OPEN" can be separated and individually positioned. Color: Red. Call for quote on custom size and colors. Standard size: 2"x 3-1/2".
Open Clockwise ..... P/N 09-43903 ..... ---
Open Counter clockwise.. P/N 09-43904 ..... ---

CLOSE ARROWS – Custom computer cut decals to indicate operation of door handles. Specify arrow CW or arrow CCW. Arrow and "OPEN" can be separated and individually positioned. Color: Tomato Red. Call for quote on custom size and colors
Close Clockwise ..... P/N 09-03866..... ---
Close Counter Clockwise . P/N 09-05686..... ---

SOLO SEATING PLACARDS – Silkscreened in red ink on white all weather vinyl. Placards for solo from front or rear seat (specify). Size: 1"x 3".
Front Seat Solo ..... P/N 09-43906 ..... ---
Rear Seat Solo..... P/N 09-43907 ..... ---



RECOMMENDED AIRSPEEDS – Black on white vinyl. May be written on with a fine point indelible marker. Provides space for all your most important airspeeds.
Size: 3.5" x 4.5 ..... P/N 09-43908 ..... ---

WINDOW PLACARD – Black on white vinyl. Specify left arrow or right arrow. Size: 3/4" x 3".
Left ..... P/N 09-43909 ..... ---
Right..... P/N 09-43911 ..... ---

STATIC AIR – Black on white vinyl. U-V coated, fuel resistant. Used to mark location of static air vents. Size: 3/4" x 1".....P/N 09-43912 ..... ---

CANOPY RELEASE – Black on white vinyl. Marks location of emergency release mechanisms for doors or canopies. Size: 7/8" x 3-1/8".
Canopy..... P/N 09-43913 ..... ---
Door ..... P/N 09-43914 ..... ---

OIL INJECTION PLACARD – Black on white vinyl. Used on oil injected Two- Stroke engines. U-V and Fuel resistant. Size: 1" x 2-1/3".
P/N 09-43916 ..... ---

DRAIN SUMPS – Black on white vinyl. U-V and Fuel resistant. Size: 1" x 2".
P/N 09-00348 ..... ---

FUEL DRAIN LOCATOR – Black on white vinyl. Used to locate fuel drain petcocks on aircraft. U-V & Fuel resistant. Size: 1/2" x 2".
P/N 09-43917.....

FIRE EXTINGUISHER – Black & Red on white vinyl. Used to locate extinguisher in emergency. Size: 2"x 3.5" ... P/N 09-43918.....

BALLISTIC CHUTE – Black & red on white vinyl. Used to locate Ballistic Chute Handle in emergency. Size: 2" x 3.5".
P/N 09-43919 ..... ---

NO STEP DECAL - No Step, 1"x5" Decal-black letters P/N 1040..... ---

NO LIFT DECAL - No Lift Decal. Color: Black on White. Size: 1/2" x 2-1/2"
P/N 104212..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

DECALS - PLACARDS

FUEL PLACARDS

80/87 MIN OCTANE FUEL RED ROUND PLACARD
P/N 09-42803 ..... **--- ea.**

80 OCTANE FUEL RED ROUND PLACARD
P/N 09-42802 ..... **--- ea.**

80 OCTANE /100 LOW LEAD-HALF RED/BLUE ROUND PLACARD.....P/N 09-42804 ..... **--- ea.**

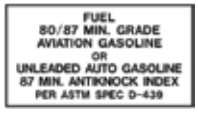
100 OCTANE, LOW LEAD ONLY BLUE ROUND PLACARD
P/N 09-42806 ..... **--- ea.**

100 OCTANE FUEL GREEN ROUND PLACARD
P/N 09-42808 ..... **--- ea.**

AVGAS ONLY FUEL PLACARD
Size: 1-1/4" x 5-1/4"...P/N 09-42813 ..... **--- ea.**

UNIVERSAL FUEL PLACARD
Size: 5" x 2-7/8"..... P/N 09-42801.....**---/pair**

1234567890.
1234567890.



FUEL 80/87 MIN. GRADE FUEL PLACARD
P/N 09-42814 ..... **--- ea.**

USE 100/130 OCTANE FUEL ONLY FUEL PLACARD .....P/N 09-42810 ..... **--- ea.**

DANGER PROPELLER ARC WARNING DECAL
Yellow on Black.
Size: 1-1/4"x5" .....P/N 09-01141 ..... **---/pair**

PLACARDS

1-1/4" x 5-1/4"
09-42812 ..... **--- ea.**

1-5/16" x 2-11/16"
09-42829 ..... **--- ea.**

09-42823 ..... **---ea.**

09-42809 ..... **--- ea.**
or 10 for ---

1-1/2" x 2-1/4"
for Beechcraft
09-42811 ..... **--- ea.**

09-42604 .....**---ea.**

09-42817 .....**---ea.**

09-42608 .....**---ea.**

09-42821 .....**---ea.**

Made of aluminum foil with a pressure sensitive backing which adheres to most any surface that is clean and dry. The facing is made with a special anodize process which will resist sun fade-out and surface abrasion. These are the original placards that went into production in 1969. The placard material and anodize process meets Federal Specifications GG-455B and MIL-P-15024-B. The adhesive meets MIL-P-6906-A. Unless otherwise specified the placards are made of soft aluminum.

NO LIFT PLACARD
Measures 3.25" x 1"
P/N 05-11648 .....**---**

LEVEL POINT PLACARD
Measures 2.5" x .75"
P/N 05-11670 .....**---**

AVGAS ONLY PLACARD
Measures 1.25" x 3.75"
P/N 14-00037 ..... **---**

CAUTION USE 80/87 AVGAS PLACARD
Measures 1.25" x 3.75"
P/N 14-00034 ..... **---**

CAUTION USE 100LL AVGAS PLACARD
Measures 1.25" x 3.75"
P/N 14-00038 ..... **---**

CAUTION USE 100/130 AVGAS PLACARD
Measures 1.25" x 3.75"
P/N 14-00033 ..... **---**

AIRCRAFT STC UNLEADED AUTO FUEL PLACARD
Measures 1.25" x 3.75"
P/N 14-00032 ..... **---**

JET FUEL ONLY PLACARD
Measures 1.25" x 3.75"
P/N 14-00036 ..... **---**

CAUTION DO NOT FILL AUX TANK PLACARD
Measures 1.25" x 3.75"
P/N 14-00706 ..... **---**

NO SMOKING PLACARD
Measures 1.25" x 3.75"
P/N 14-00039 ..... **---**

ZERO FUEL WEIGHT PLACARD
Measures 1.25" x 3.75"
P/N 14-00704 ..... **---**

WARNING ONLY THE PILOT PLACARD
Measures 1.25" x 3.75"
P/N 14-00705 ..... **---**

FASTEN SEATBELT PLACARD
Measures 1.25" x 3.75"
P/N 14-00040 ..... **---**

SPINS PROHIBITED
Measures 1" x 3"
P/N 15-06666 ..... **---**

CAUTION MAXIMUM BAGGAGE WEIGHT
Measures 1.25" x 3.75"
P/N 14-03291 ..... **---**

FUEL OCTANE DECALS

Handsome vinyl placards have brilliant red lettering on a white background. Simply remove paper backing and apply. Size: 1" x 2-7/8".
80/87 red on white.....P/N 09-33610 ..... **--- pr.**
100/130 green on white.....P/N 09-33615 ..... **--- pr.**
100/130 red on white.....P/N 09-33700 ..... **--- pr.**
100/130 red on white.....P/N 09-33710 ..... **--- pr.**

GEAR DOWN BEFORE LANDING DECAL

Gear up landing incidents still occur everyday day in all categories of aviation. The most important item on a retractable airplane's before landing checklist may be the "GEAR DOWN BEFORE LANDING" item. By placing this simple, non adhesive transparent "GEAR DOWN" decal within view of the pilot, you can insure a higher level of awareness and safety during your approach and landing phase of flight. 4-3/4" x 1-3/4".
Color: Red & Black print on clear .....P/N 13-12967 ..... **---**

CS

DECALS - PLACARDS

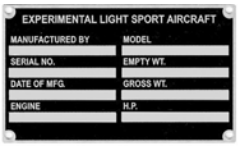
NAMEPLATE

All amateur-built aircraft must have a nameplate. Etch or stamp required data on this indestructible stainless steel nameplate. Conforms to FAA requirements. Size: 3"x 4-1/4".

Engraving is not included. .....P/N 09-01997 ..... **---ea**
Nameplate with custom engraving .....P/N 09-04684 ..... **---**

EXPERIMENTAL LSA SS DATA PLATE

Custom data plate engraving for your experimental aircraft. You will receive a fully engraved data plate ready to install on your aircraft for certification. It is highly recommended that you use Capital Letters.
P/N 09-04683.....---



EXPERIMENTAL Single-piece decal with adhesive back. No need to line up 12 individual letters. One-step operation. Just remove protective backing and apply to any clean surface. 2" black letters on clear Mylar base. Decal Size: 2-1/4" x 19".
Set of 2.....P/N 09-33400 ..... ---

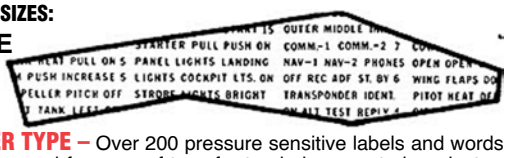
LIGHT-SPORT **LIGHT-SPORT DECALS** Similar to our EXPERIMENTAL Decals, complies with marking requirements for LSA. Available in: 2"x14-1/4"
Black on Clear.....P/N 09-00762 ..... ---
Black on White .....P/N 09-00782 ..... ---
White on Clear.....P/N 09-00783 ..... ---

NO STEP Bright red on white vinyl. Letters are 1" high. Decal size: 1-3/8" x 4-3/8".
P/N 09-33500 ..... **---ea**

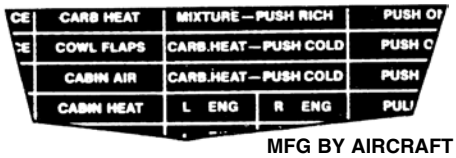
NO STEP 1"x5" Decal-black letters.
P/N 1040 ..... ---

PANEL MARKING SETS

ACTUAL TYPE SIZES:
THROTTLE
THROTTLE



DRY TRANSFER TYPE – Over 200 pressure sensitive labels and words conveniently grouped for ease of transfer to airplane controls or instrument panel. Available in two type sizes (see illustration) and in black or white lettering (specify).
Large Black ..... P/N 09-34600 Large White..... P/N 09-34700
Small Black..... P/N 09-34800 Small White..... P/N 09-34900
--- Set



MFG BY AIRCRAFT SPRUCE

SELF-ADHESIVE VINYL TYPE – White lettering on black background. Just cut, peel and press in place. Includes 349 of the most commonly used cockpit identifications and symbols (avionics, electrical, engine and aircraft controls) plus 248 numbers & letters. The most complete selection available. .....P/N 09-35000 ..... **--- Set**

HOMEBUILDERS TYPE – Self-adhesive vinyl markings for the Long-EZ but applicable to many other aircraft.....P/N 01-37800 ..... **--- Set**

PASSENGER WARNING PLACARD

These Passenger Warnings must be displayed in the cockpit of all amateur-built aircraft. Verbiage complies with the latest FAA requirements. "Passenger Warning - This aircraft does not comply with federal safety regulations for standard aircraft".

This vinyl placard has brilliant red lettering on a white background. Simply remove the paper backing and apply.
P/N 09-05359 ..... ---

E-LSA - Red & White
P/N 09-01966 ..... ---

S-SLA - Red & White
P/N 09-01968 ..... ---

AIRCRAFT IDENTIFICATION DATA PLATES

FACTORY BUILT - Aircraft ID plate factory built made of aluminum. Not FAA Approved. Engraving included. When ordering please provide: Make, Model, S/N, N# for factory built aircraft only.
P/N 09-00447 ..... ---

EXPERIMENTAL ONLY - Aircraft ID plate factory built made of aluminum. Not FAA Approved. Engraving included. When ordering please provide: Make, Model, S/N, N# for factory built aircraft only.
P/N 09-40000 ..... ---

U.S. ARMY AIR CORP DATA PLATE

Experimental Data Plate replica - U.S. Army Air Corp. Used in many of the old liaison type airplanes from the L-3 to the L-21, as well as Boeing Stearman.
P/N 05-12334 ..... ---

SOFT ALUMINUM DECALS

P/N 09-34200

P/N 09-34300

P/N 09-34400

P/N 09-34500

Soft Aluminum Decals Letters are 1-1/4"H X 3-3/4"L with black lettering.....**--- ea.**

CS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PLACARDS

Color for placards below are white on black.

SPINS PROHIBITED

5/8"x 3-1/4" . P/N 09-42842
1"x 5" ...P/N 09-42844 ..... **--- ea**

FASTEN SEAT BELTS

1"x 5" .....P/N 09-42850
5/8"x 3-1/4" ...P/N 09-42848 ..... **---ea**

NO LIFT

1"x 3" 09-42858..... **---**

NO STEP

1"x 3" 09-42852..... **---**

NO PUSH

1"x 3" 09-42854..... **---**

EXPERIMENTAL

1"x 5" ..... 09-42856 ..... **---ea**

LIFT HERE

1"x 3" .....09-42860 ..... **---ea**

NO SMOKING

1"x 4" ..... 09-42846..... **---ea**

All the placards & decals on this page are produced on long lasting UV coated pressure sensitive adhesive vinyl. They are computer cut using no clear background so they won't yellow. These are all top quality decals which will enhance your aircrafts looks for years to come. Do not settle for "cheap" imitations.

12-INCH STENCIL NUMBER STRIP

Highly recommended as the easiest and most effective way to apply painted 12" stenciled "N" numbers on any aircraft. These come pre-spaced and aligned horizontally or vertically and assure a professional looking job. Shipped factory-direct to you within 48 hours. Provide exact "N" number when ordering. Special order - Non-returnable. Please specify horizontal or vertical. 6 Characters on each strip or less. Made of Vinyl.

12" Strip (straight) (right/left).....P/N 09-00287 ..... **--- set**
12" Strip (slanted) (right/left).....P/N 09-00288 ..... **--- set**

Note: The Helvetica font is 2" width. Military and monument fonts are a condensed version for smaller spaces and are 1-1/2" wide. Certified aircraft require minimum 2" width so helvetica must be used.

3-INCH STENCIL STRIP

Vertical or horizontal lettering individually spaced and aligned. Advise number. Stencils will be made-to-order and shipped in about two weeks.

Straight Set of 2 (Right/Left).....P/N 09-00289 ..... **--- set**
Slanted Set of 2 (Right/Left).....P/N 09-00290 ..... **--- set**

INDIVIDUAL FIGURE STENCILS

N4804K N2510T N6979N
N425WT N100MD N51ER

Precut sticky paper masks for spraying registration numbers. Used by Piper and other aircraft manufacturers. Order two of each character for vertical stencils. Slanted stencils are furnished in pairs (R/L), so order one pair of each character. Order by part number. For last digit, put in number or letter needed.

3 Inch Vertical Figures.....P/N 09-3280x ..... **--- Ea**
3 Inch Slanted Figures.....P/N 09-0672X..... **--- Ea.**
12 Inch Vertical Figures.....P/N 09-3290x ..... **--- Ea**
12 Inch Slanted Figures.....P/N 09-3300x ..... **--- Pr**

Note: Full N number strips are available. Individual Numbers and letters will not align isometrically. Vinyl strip or stencil strip is recommended.

Painting Options: These stencils offer you two methods of spraying lettering incorporated in a single stencil.

You can: (1) Letter after the body color has been applied or
(2) Letter before the body color has been painted. This second method provides recessed, protected lettering and eliminates masking.

LETTERING & NUMBERS

For any use. Available in over 40 type styles. Most colors available.

Cap Size(In.)	In Stock Colors	Slanted or Reversed	Reflective & Metallic
3/4	.40	.45	N/A
1	.75	.80	.80
1-1/2	.75	.80	80
2	1.00	1.05	1.05
2-1/2	1.00	1.05	1.05
3	1.35	1.40	1.40
4	1.35	1.40	1.40
4-1/2	1.50	1.55	1.55
5	1.50	1.55	1.55
6	1.80	1.85	1.85
7	2.25	2.30	2.30
8	2.50	3.00	3.00
9	4.00	4.50	4.50
10	5.00	5.50	5.50
12*	6.75	7.05	7.05

***Numbers excluded**

12-INCH VINYL N NUMBER STRIP

The fastest and easiest way to apply registration numbers. These numbers come pre-spaced and aligned and are ready to apply in one simple operation. These are top quality numbers which are shipped factory direct to you. Provide exact "N" number when ordering. 6 Characters max. on each) Color choices are black, white, red, blue, or gold. Standard type style is helvetica. Military block, drop shadow, or outline styles are also available. Please specify your N number, color, orientation, and print style in the special instructions of the online order form. Colors Available: • Black • White • Tomato Red (Light Red) • Cardinal Red (Dark Red) • Olympic Blue (Sky Blue) • Bright Blue • Sapphire Blue • Light Navy • Metallic Gold • Metallic Silver • Green • Brown

Note: Drop Shadow style is double the cost due to it being two colors.

Straight 12" Strip (6 Characters max. on each)
P/N 09-41910 ..... **--- pair.**

Slanted 12" Strip (6 Characters max. on each)
P/N 09-41922 ..... **--- pair.**

Slanted 12" Drop Shadow Strip (6 characters max. on each)
P/N 09-03434 ..... **--- pair**

12-INCH INDIVIDUAL VINYL NUMBERS

We now offer new 12" vinyl "N" numbers as now required for return flight to the U.S. from foreign countries. Available in black, gold, red, white or blue. Numbers are slightly slanted. Basic part number is 09-387xx. Second to last digit is for color. 1 – Black, 6 – Gold, 7 – Red, 8 – White, 9 –Blue. For last digit, put in number or letter needed.

Note: Full N number strips are available. Individual numbers and letters will not align isometrically. Vinyl strip or stencil strip is recommended.

Please Note: N-Numbers ship via priority mail only to all U.S. domestic customers.
See our website for a complete listing of Part Numbers

Slanted 12" Individual #'s ..... **--- / pair**

3-INCH VINYL INDIVIDUAL NUMBERS & LETTERS

Individual vertical numbers and letters. Pressure sensitive vinyl for easy application. Black only. No slanted numbers available. Basic part no. is 09-3310x. For last digit, put in number or letter needed..... **--- ea.**

Note: Full N number strips are available. Individual numbers and letters will not align isometrically. Vinyl strip or stencil strip is recommended.

3" VINYL NUMBER STRIP

"N" Number Strips assure handsome registration numbering in minutes. Complete made-to-order 3" registration number on a dhesive application strip individually spaced and aligned (NOT A FILM). Lay strip on aircraft and remove backing. Permanent number remains bonded to aircraft. A real time saver. Will outlast paint - look better. Available in black, white or gold. Vertical or horizontal lettering. Specify vertical or horizontal lettering and color.

Colors Available: • Black • White • Tomato Red (Light Red) • Cardinal Red (Dark Red) • Olympic Blue (Sky Blue) • Bright Blue • Sapphire Blue • Light Navy • Metallic Gold • Metallic Silver • Green • Brown

*****Delivery by UPS only****

3"Straight.....Right & Left .....P/N 09-00294 ..... **--- set**
3"Slanted .....Right & Left .....P/N 09-00302 ..... **--- set**

Letter styles available for your aircraft. 3" and 12" vinyl strips.

Monument Block N6428L Monument Block Slant N6428L
Helvetica Block N6428L Helvetica Block Slant N6428L
Military Block N6428L Military Block Slant N6428L

CARDBOARD DIE-CUT ONE-PIECE STENCILS

Description	Size	Part No.	Price Each
EXPERIMENTAL	2"H x 18"L	09-32400	---
NO STEP	2"H x 4-3/4"L	09-32500	---
NO PUSH	1"H x 4-3/4"L	09-32600	---
NO STEP	1"H x 4-3/4"L	09-32700	---

TRACE-IT STENCIL SETS

Allows for stenciling of every letter and number.
NOTE: Illustration is portrayal of item you actually receive - each kit contains 3", 12" and 24" sizes.

P/N 09-42831 ..... **---**

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AIRCRAFT PLACARD KITS

INTERIOR PLACARD KITS

These quality decal sets are designed to provide all the necessary placards for the interior of various production and homebuilt aircraft. Just cut the decals you want to use from the card and apply to the aircraft interior.

NOTE: PART NUMBERS SHOWN ARE FOR WHITE ON BLACK INTERIOR PLACARD SETS. FOR WHITE ON CLEAR ADD -1 TO PART NUMBER. FOR BLACK ON WHITE ADD -2. FOR BLACK ON CLEAR ADD -3.

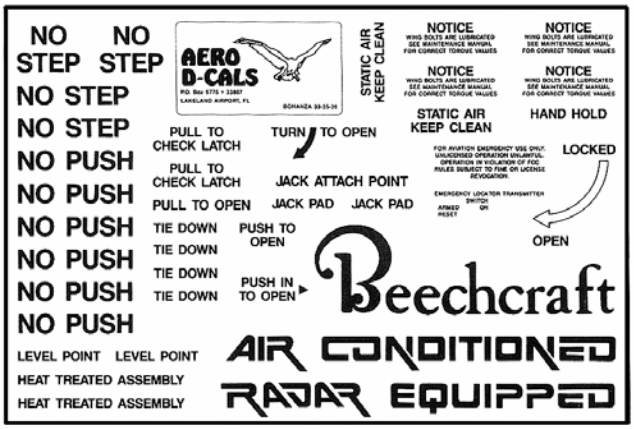
Description	Part Number	Price
Beechcraft		
Muskateer 19, 23	13-03954	---
24, 24R, Sierra	13-03950	---
33, 35, 36 Series	13-03951	---
Twin Bonanza	13-03953	---
Bellanca		
Citabria/Decathlon	13-03949	---
Cessna		
120/140/150/152	09-44055	---
170/172/175	09-44060	---
177/177rg	13-03955	---
180/182/185	13-03956	---
190/195	09-01158	---
205/206/207	09-01963	---
210/210t	09-01010	---
310 H-M	09-01084	---
310 P-Q	09-01160	---
310 -D	09-01162	---
336/337	09-01161	---
Ercoupe	09-01165	---
Grob		
Seaplane	09-01021	---
Grumman		
AA1/AA1A	09-01168	---
AA5/AA5A, AA5B	09-01170	---
Cougar	09-01171	---
Baron	13-03952	---
Piper		
PA-18 Super Cub	09-01176	---
PA-23 Aztec Series	09-01184	---
PA-24 Comanche	09-01181	---
PA-28 140-181 Cherokee	09-01179	---
PA-28 235-236	09-01180	---
PA-28 R Arrow Series	09-00441	---
PA-30 Twin Comanche	09-01183	---
PA-32 Cherokee-Lance	09-01182	---
PA-34	09-01185	---
Saratoga		
PA-38 112 Tomahawk	09-01178	---
PA-44 Seminole Series	09-01186	---
Tri-Pacer	09-01177	---
Westwind	09-01046	---
Universal Interior	09-01197	---

AERONCA 7AC STYLE COCKPIT INTERIOR PLACARDS

These experimental Aeronca 7AC like style parts will help you achieve the pre or post war appearance you are looking for without taking away from the performance.

Description	Part No.	Price
Fuel On/Off Placard	05-12328	---
Throttle Open/Closed Placard	05-12329	---
"Do Not Exceed 129 Miles Per Hour..." Placard	05-12330	---
"Maximum Baggage 20 LBS	05-12331	---
Middleton, OH Post WWII Data Plate	05-12332	---
Nose Up/Down Trim Placard	05-12333	---

EXTERIOR PLACARD KITS



NOTE: PART NUMBERS SHOWN ARE FOR BLACK ON CLEAR EXTERIOR PLACARD SETS. FOR WHITE ON CLEAR ADD -1 TO PART NUMBER. FOR BLACK ON WHITE ADD -2. FOR WHITE ON BLACK -3.

Aircraft Model	Part Number	Price
Helicopter (Universal)	09-44201	---
Single Engine (Universal)	09-44202	---
Mooney M20/21	09-44203	---
Piper PA28 Cher/Warrior/Archer II	09-44204	---
Piper PA32 Cher/Lance/Saratoga	09-44206	---
Piper PA32 Apache/Aztec	09-44207	---
Piper PA34 Seneca I/II/III	09-44209	---
Piper PA30/39 Twin Comanche	09-44211	---
Piper PA31T/42T Cheyanne	09-44205	---
Cessna 100/200	09-44213	---
Cessna 300 Series	09-44210	---
Cessna 400 Series	09-44220	---
Cessna 425/441	09-44235	---
Cessna Jet 500 Series	09-44245	---
Beech Bonanza V35	09-44216	---
Beech Baron 55/58	09-44251	---
Beech Duke 60	09-44217	---
Beech Queen Air 65/88	09-44218	---
Beech King Air 200/300	09-44250	---
Beech Jet 400 Series	09-44255	---
Exterior Kit Beech King Air	09-01956	---
Saber Jet 40/60	09-44219	---
Hawker Jet 500	09-44280	---
Westwind Jet 1100	09-01046	---
Gulfstream 690-1000	09-44224	---
Challenger Jet 600	09-44227	---
Falcon Jet 10/20	09-44228	---
Lear Jet 20 Series	09-44260	---
Lear Jet 30 Series	09-44265	---
Lear Jet 50 Series	09-44231	---
Rockwell 112/114	09-44232	---
Rockwell Gulf Stream 690	09-44233	---

Die cut decal kits are available on request. Call for quotation.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RCA 2610 SERIES DIGITAL ATTITUDE INDICATORS

The RCA2610 is the updated version of the popular RCA2600 Electric Digital Attitude Indicator. It is the perfect companion to the RCA1510 Digital Heading Indicator. This version has the same form, fit, and function as the original but has dual processors, improved screen resolution and updated software. The optional Pitch Sync feature allows pilots to instantly synchronize the airplane symbol to the horizon line when flying in a pitch up or pitch down attitude.
The RCA2610-G version comes without the Pitch Sync feature and functions like the original model with the brightness controls only.
The RCA2610 is designed to handle the high vibration environment found on helicopters and yet, their light weight makes them perfect for soaring. This makes the RCA2610 the most versatile and dependable Digital AI on the market today. With no moving parts to wear out, this instrument will provide years of reliable service - that's why it includes a full two-year warranty! All RCA2610 models can be ordered with an optional slip indicator (inclinometer) which satisfies FAA AC 91-75 for even greater versatility.
The panel tilt angle can be set from 0 to 90 degrees in one degree increments, but must be specified at time of order. Operating Voltage: 9 to 32VDDC.
Made in the USA.

Features:
• Fast Dual Processors • Pitch Sync Feature • Sharp Anti-Aliased Screen • Black Anodized Bezel • Fast Response in Roll & Pitch • 2 Year Warranty • Vibration Resistant • Multi-volt plug & fly • Lighter weight • FAA/EASA Certified

Specifications:
• Operating Voltage: 9 to 32VDDC • Starting Current: 9VDC: 0.18 to 0.22 AMPS MAX • Running Current: (14VDC system) 0.20 AMPs MAX, (28VDC system) 0.18 AMPs MAXa • Circuit Breaker Size: 2AMP • Settling Error: 1 Degree Maximum in Roll and Pitch • Operating Temperature Range: -30° to +50° C • Dimensions: Please see specifications document. • FAA Specification Conformance: TSO-C4c, TSO-C113a, DO-160F & DO-178B • EASA Specification Conformance: ETSO-C4c and ETSO-C113a

RCA 2610-2 SERIES DIGITAL ATTITUDE INDICATORS - 2 INCH - FAA TSO

Pitch Sync	Slip / Turn	Part Number	Price
With Pitch Sync	Standard (No Digital Slip / Turn)	10-06428	---
With Pitch Sync	With Slip Indicator + Turn Rate	10-06996	---
With Pitch Sync	With Slip Indicator Only	10-06997	---
No Pitch Sync	Standard (No Digital Slip / Turn)	10-06434	---
No Pitch Sync	With Slip Indicator + Turn Rate	10-07003	---
No Pitch Sync	With Slip Indicator Only	10-07004	---
With Pitch Sync + Pitot Static	Standard (No Digital Slip / Turn)	10-06440	---
With Pitch Sync + Pitot Static	With Slip Indicator + Turn Rate	10-07015	---
With Pitch Sync + Pitot Static	With Slip Indicator Only	10-07016	---
Pitot Static / No Pitch Sync	Standard (No Digital Slip / Turn)	10-06447	---
Pitot Static / No Pitch Sync	With Slip Indicator + Turn Rate	10-07021	---
Pitot Static / No Pitch Sync	With Slip Indicator Only	10-07022	---

RCA 2610-3 SERIES DIGITAL ATTITUDE INDICATORS - 3 INCH - FAA TSO

Pitch Sync	Slip / Turn	Battery	Part Number	Price
With Pitch Sync	Standard (No Digital Slip / Turn)	Without Battery Backup	10-06431	---
With Pitch Sync	Standard (No Digital Slip / Turn)	With Battery Backup	10-07008	---
With Pitch Sync	With Slip Indicator + Turn Rate	Without Battery Backup	10-06993	---
With Pitch Sync	With Slip Indicator + Turn Rate	With Battery Backup	10-07006	---
With Pitch Sync	With Slip Indicator Only	Without Battery Backup	10-06994	---
With Pitch Sync	With Slip Indicator Only	With Battery Backup	10-07007	---
No Pitch Sync	Standard (No Digital Slip / Turn)	Without Battery Backup	10-06437	---
No Pitch Sync	Standard (No Digital Slip / Turn)	With Battery Backup	10-07011	---
No Pitch Sync	With Slip Indicator + Turn Rate	Without Battery Backup	10-06999	---
No Pitch Sync	With Slip Indicator + Turn Rate	With Battery Backup	10-07009	---
No Pitch Sync	With Slip Indicator Only	Without Battery Backup	10-07001	---
No Pitch Sync	With Slip Indicator Only	With Battery Backup	10-07010	---
With Pitch Sync + Pitot Static	Standard (No Digital Slip / Turn)	Without Battery Backup	10-06444	---
With Pitch Sync + Pitot Static	Standard (No Digital Slip / Turn)	With Battery Backup	10-07026	---
With Pitch Sync + Pitot Static	With Slip Indicator + Turn Rate	Without Battery Backup	10-07012	---
With Pitch Sync + Pitot Static	With Slip Indicator + Turn Rate	With Battery Backup	10-07024	---
With Pitch Sync + Pitot Static	With Slip Indicator Only	Without Battery Backup	10-07013	---
With Pitch Sync + Pitot Static	With Slip Indicator Only	With Battery Backup	10-07025	---
Pitot Static / No Pitch Sync	Standard (No Digital Slip / Turn)	Without Battery Backup	10-06450	---
Pitot Static / No Pitch Sync	Standard (No Digital Slip / Turn)	With Battery Backup	10-07029	---
Pitot Static / No Pitch Sync	With Slip Indicator + Turn Rate	Without Battery Backup	10-07018	---
Pitot Static / No Pitch Sync	With Slip Indicator + Turn Rate	With Battery Backup	10-07027	---
Pitot Static / No Pitch Sync	With Slip Indicator Only	Without Battery Backup	10-07019	---
Pitot Static / No Pitch Sync	With Slip Indicator Only	With Battery Backup	10-07028	---
With Pitch Sync + Pitot Static	Standard (No Digital Slip / Turn)	Without Battery Backup	10-06444	---
Pitot Static / No Pitch Sync	Standard (No Digital Slip / Turn)	Without Battery Backup	10-06450	---

Options:

RC ALLEN 2600 Series Screw on Inclinometer ..... P/N 10-03862 ..... ---
RC ALLEN Digital Indicator Custom Tilt ..... P/N 10-07138 ..... ---
RC ALLEN Digital Indicator Night Vision NVIS ..... P/N 10-07139 ..... ---

RCA 1510 SERIES DIGITAL HEADING INDICATORS

The RCA1510 Series Digital Heading Indicator is the latest addition to the RC Allen Digital Instrument Lineup. It is the perfect companion to the RCA2610 Digital Attitude Indicator. The RCA1510 is designed as a fully FAA Certified direct replacement for your mechanical Directional Gyro. It is totally self-contained and fits in a standard 3-inch panel cut-out. There are no special external connections other than power and an external GPS antenna. The Multi-Volt function (9-32V) allows installation in both 14 Volt and 28 Volt systems. The RCA1510 combines data from its own internal magnetometer and GPS receiver for a more stable and accurate heading reading which also eliminates the need to "cage" or "zero" the instrument. Because the RCA1510 has no mechanical gyroscope, it is much more accurate than traditional heading indicators. Unlike a mechanical gyroscopic unit, the RCA1510 is not affected by drifting or wandering. The unit is designed to work without GPS input if the GPS signal is lost. The highly visible screen has adjustable brightness controls. It has a traditional rotating dial display with digital numeric headings. The pilot can adjust the Heading Bug just like a mechanical instrument or use the Quick-Set Heading Bug; a double-push of the HDG knob sets the Bug to the current heading. The panel tilt angle can be set from 0 to 90 degrees in one degree increments, but must be specified at time of order. Made in the USA

Features: • Totally self-contained • Quick-set Heading Bug • Internal Magnetometer and GPS • Sharp Dimmable Display • Dual Processor Performance • Multi-volt Operation (9 to 32 Volts) • Fits standard panel cutout • Vibration Resistant • All digital - No moving parts • Black anodized bezel • Lightweight - 8oz. Max • FAA Certified

Description	Part No.	Price
Dedicated Antenna (SMA) Standard	10-06580	---
Dedicated Antenna (SMA) With Backup Battery	10-07407	---
Dedicated Antenna (SMA) Standard NVIS	10-07408	---
Dedicated Antenna (SMA) NVIS w/Backup Battery	10-07409	---
RS232 Serial Standard	10-07410	---
RS232 Serial With Backup Battery	10-07411	---
RS232 Serial Standard NVIS	10-07412	---
RS232 Serial NVIS with Backup Battery	10-07413	---
RC Allen Digital Indicator Custom Tilt Option	10-07138	---

RC ALLEN DIRECTIONAL GYROS (ELECTRIC)

Pictured is RCA15AK-1

The RCA15 Series electric directional gyro employs and electrically driven gyro motor and is a direct reading, azimuth indicator. Rotor run up time is 3 min. They have a built in inverter which converts aircraft DC power to the required AC voltage and frequency. May be used in both fixed wing and rotor wing aircraft and is easily installed in standard 3 1/8" panel cut out. Power failure flag drops into view when supply voltage is lost or has dropped below a level for proper operation of the gyro. Made in the USA

Electrical Requirements: • Starting Current @ 14 VDC: 2.4A Max • Running Current @ 14 VDC: 1.2A • Starting Current @ 28 VDC: 1.4A Max • Running Current @28 VDC: .6A • Recommended Circuit Breaker 3A

Model	Description	Part No.	Price
RCA15AK-1	14 VDC, Lighted	10-01681	---
RCA15AK-2	14 VDC	10-01390	---
RCA15EK-2	12-30V, TSO	10-03454	---
RCA15BK-1	28 VDC, Lighted	10-01682	---
RCA15BK-2	28 VDC	10-00501	---
RCA15AK-16	14 Volt, 400HZ, 5K.	10-02530	---
RCA15AK-17	14 Volt, Heading Bug only.	10-02529	---
RCA15BK-16	28 Volt, 400HZ, 5K.	10-02533	---
RCA15BK-17	28 Volt, Heading Bug only.	10-02532	---
15BK-1	Factory Overhauled	10-05690	---
Accessories			
MS3116E8-4S	4 Pin Connector	10-00791	---
444-0011-0	Mini Slip Indicator - Add this to your new or current Electric Gyro Horizon. Replaces 444-0007-01.	10-04623	---

RC ALLEN ATTITUDE GYROS (ELECTRIC)

10-02524

The RCA26 Series is the top of the line and has been designed for precision and reliability. The RCS26EK Series is a 10-30VDC instrument. You have a choice of a fixed or moveable pointer, and a 14 or 28 volt lighting. Performance characteristics include roll indication of 360°. Pitch ± 30°. Pitch trim range ±7°. Slip Indicator can be added upon request. Mating connector (MS3116E8-4S) is also available.

***Additional core charge added to purchase at time of checkout. Exchange core must be a like core* and the core must be returned no later than 20 days from the invoice date to receive core credit.**

Model No.	Description	Part No.	Price
RCA26EK-11	Fixed Pointer, unlit. 0° Tilt	10-02524	---
RCA26EK-12	Fixed Pointer, lighted. 0° Tilt	10-02526	---
RCA26EK-12 Custom Tilt	Fixed Pointer, lighted. Specify Tilt	10-04985	---
RCA26EK-13	Moveable pointer, unlit. 0° Tilt	10-02527	---
RCA26EK-14	Moveable pointer, lighted. Voltage and tilt must be specified at time of order.	10-02528	---
RCA26AK-1	Standard look, 14V, Lighted, Moveable pointer, Stationary roll dial. 0° tilt.	10-00608	---
RCA26AK-1 Custom Tilt	Standard look, 14V, Lighted, Moveable pointer, Stationary roll dial. Specify tilt.	10-04989	---
RCA26AK-2	Standard look, 14V, Lighted, fixed pointer, moveable roll dial. 0° Tilt	10-01683	---
RCA26AK-2 Custom Tilt	Standard look, 14V, Lighted, fixed pointer, moveable roll dial. Specify Tilt	10-04990	---
RCA26AK-3	Standard look, 14V, Moveable pointer, Stationary roll dial. 0° Tilt.	10-01118	---
RCA26AK-3 Custom Tilt	Standard look, 14V, Moveable pointer, Stationary roll dial. Specify Tilt.	10-04991	---
RCA26AK-4	Standard look, 14V, Fixed Pointer, Moveable roll dial.	10-01392	---
RCA26BK-2	Standard look, 28V, Lighted, Moveable pointer, Stationary Roll Dial.	10-01119	---
RCA26BK-6	Standard look, 28V, Fixed Pointer, Moveable Roll Dial.	10-01393	---
RCA26BK-8	Standard look, 28V, Moveable pointer, Stationary Roll Dial.	10-01120	---
RCA26BK-9	Standard look, 28V, Lighted, Fixed pointer, Moveable Roll Dial.	10-00466	---
RCA26BK-12	5° Tilt, 28V, Lighted, Moveable pointer, fixed roll dial	10-01122	---
26BK-9	Factory Overhauled*	10-05685	---
26BK-2	Factory Overhauled*	10-05686	---
26AK-4	Factory Overhauled*	10-05687	---
MS3116E8-4S	4 Pin Connector MS3116E8-4S	10-00791	---
444-0011-01	Slip indicator/inclinometer for RCA26 & RCA22 Series manufactured before 03/04/2011	10-04623	---

IN

CORE CHARGES APPLY TO OVERHAULED GYROS.

RC ALLEN VACUUM HORIZON GYRO

The RCA22 Series of vacuum artificial horizon are controlled by air driven precision gyros to present the pilot with pitch and roll information. The attractive color scheme of blue sky and brown ground presents a realistic spherical display of flight. Unless otherwise indicated all instruments have a dark blue/brown display, fixed pointer and are unlighted. This is the "standard" display. Instruments equipped with a warning flag will let you know when vacuum has dropped below 3.8 inch Hg. Flag retracts from view at 4.3 inch. Hg. Instrument fits in a standard 3 1/8" panel cutout.

Meets or exceeds all requirements of FAA TSO C4C and Aeronautical Standard AS396B. *Additional core charge added to purchase at time of checkout. Exchange core must be a like core* and the core must be returned no later than 20 days from the invoice date to receive core credit.

Model No.	Description	Part No.	Price
RCA22-7	Standard display, 0 Degree Tilt	10-01371	---
RCA22-7F	Standard Display with a warning flag. 0° Tilt	10-00504	---
RCA22-7F	Standard Display with a warning flag. Specify Tilt	10-04996	---
RCA22-11	Standard display, lighted 14V, 0° Tilt.	10-00502	---
RCA22-11	Standard display, lighted 14V, Custom Tilt.	10-04995	---
RCA22-11	Standard display, lighted 28V, 0° Tilt	10-01391	---
RCA22-11	Standard display, lighted 28V, 8° tilt	10-03635	---
RCA22-11F	Standard display, lighted, with a warning flag. (14V) 0° Tilt	10-00094	---
RCA22-11F	Standard display, lighted, with a warning flag. (14V) Custom Tilt	10-04993	---
RCA22-11F	Standard display, lighted, with a warning flag. (28V). 0° Tilt.	10-03574	---
RCA22-15	Display is blue over black 0° Tilt.	10-01109	---
RCA22-15	Display is blue over black 8° Tilt.	10-05007	---
RCA22-15	Display is blue over black. Custom Tilt.	10-04997	---
RCA22-7	Overhauled RCA22-7 Horizon Gyro*	10-05439	---
RCA22-7F	Overhauled RCA22-7F	10-05869	---
RCA22-11	Overhauled RCA22-11	10-05870	---
RCA22-11F	Overhauled RCA22-11F	10-05871	---
RCA22-15	Overhauled RCA22-15	10-05872	---

RC ALLEN DIRECTIONAL GYROS VERTICAL CARD (VACUUM)

RCA11A-8

RCA11A-15

The RCA-11A series of vacuum directional gyros utilize and air driven precision gyro that controls a vertical rotating azimuth gimbal. The R.C. Allen Model RCA11A has been designed to provide a long life of accurate operation even when subjected to severe operating requirements. This instrument is engineered with a minimum of machined parts, providing lower initial cost and lower maintenance cost through its lifetime. The RCA11A is non-tumbling within ±85° limits in pitch and roll and can be easily installed in any 3 1/8" panel cut out. Meets or exceeds all requirements of FAA TSO C5c and Aeronautical Standard AS397.

Dimensions: Length: 6.7" Height: 3.4" Width: 3.4" Weight: 2.3 Pounds

Model No.	Description	Part No.	Price
RCA11A-8	Standard Display	10-01370	---
RCA11A-8F	Standard Display with Flag	10-01680	---
RCA11A-15	Cardinal Heading markers N., S., E., & W. (Piper/Cessna display)	10-00390	---
RCA11A-15F	Same as RCA11A-15 with flag	10-01116	---
RCA11A-16B	Standard Display, Lighted, 14 Volt.	10-01369	---
RCA11A-17B	Standard Display, Lighted, 28 Volt	10-01389	---
RCA11D-4	Single Pointer, 400hz Autopilot with heading bug.	10-01117	---
RCA11D-5	Dual Auto Pilot with Heading Bug	10-03430	---
RCA11D-7	With Heading Bug Only	10-02931	---
11A Series	Factory Overhauled 11A Series Gyro (Core Charges Apply)	10-05683	---
RCA11A-15	Factory Overhauled (Piper/Cessna Display)(Core Charges Apply)	10-06263	---

RC ALLEN MINI6 MULTIFUNCTION DIGITAL INSTRUMENT

The MINI6 indicator is the newest addition to RC Allen's groundbreaking line of digital instruments. It offers all the instrumentation of a traditional six-pack in one clean, customizable and easy to read presentation. The fully certified, easy to install indicator comes equipped with an internal battery backup providing an exceptional level of redundancy to any application.

Easy to Install: • Fits standard 3" cutout • No panel modifications • Rear mounted, matching the installation of standard 3" mechanical units

Customizable • Wide range of customization options including range marks, units and display features • Selectable Heading Type (Magnetic Heading or Ground Track)

Reliable • Internal battery backup • Self-contained • Solid state • 2 year warranty.....P/N 10-07331 ..... ---

SIGMA-TEK 5000B SERIES STANDARD ATTITUDE GYROS

The 5000B is an air-driven gyro that has a pictorial horizon mask and fixed airplane. The mask moves to indicate climb, dive, and bank. Bank and pitch attitudes are displayed so that the pilot's sensing of the gyro indication is the same as the interpretation of the relation between the wings of the aircraft and the natural horizon during visual flight.

This instrument is FAA certified, and can be used to replace the aircraft's turn coordinator when equipped with an inclinometer.

The Standard configuration can replace most air driven gyros with the major difference being in the layout and colors of the display.

NOTE: Lighted instruments do not include lamp trays, please see accessories to purchase separately.

Sigma-Tek	Model	Display Colors	Inclino-meter	Lighted	Panel Tilt	Part Number	Price
1U149-010	5000E-13	Blue/Black	No	Yes	0	10-04790	---
1U149-010-1	5000B-37	Blue/Brown	No	Yes	0	10-01071	---
1U149-010-4	5000B-54	Blue/Brown	No	Yes	8	10-04655	---
1U149-010-5	5000B-64	Blue/Black	No	Yes	8	10-04660	---
1U149-013-1	5000B-45	Blue/Brown	Yes	Yes	0	5000B-45	---
1U149-013-3	5000B-53	Blue/Brown	Yes	Yes	8	5000B-53	---
23-501-06-9	5000B-20	Blue/Black	No	No	0	10-00389	---
23-501-06-12	500B-24	Blue/Black	No	No	8	10-04652	---
23-501-06-16	5000B-36	Blue/Brown	No	No	0	5000B	---
23-501-06-17	5000B-42	Blue/Brown	No	No	8	5000B-42	---
23-501-033-3	5000B-46	Blue/Brown	Yes	No	0	5000B-46	---
23-501-034-4	500B-51	Blue/Brown	Yes	No	8	5000B-51	---

Accessories

BA14-24-BW3G (14 Volt Lamp Tray).....P/N 10-02757 ..... ---

BA28-24-BW3G (28 Volt Lamp Tray).....P/N 10-02758 ..... ---

SIGMA-TEK 5000B SERIES ATTITUDE GYROS WITH WARNING FLAG

This gyro is a variation of the popular 5000B air-driven attitude gyro. It includes a warning flag that drops into view upon the loss of vacuum. This can be a life saving feature during an emergency in a busy cockpit. The horizon mask moves to indicate climb, dive, and bank attitudes, which are portrayed against a fixed airplane. The fluid movements and intuitive presentation provide the pilot with a realistic sense of the aircraft's attitude in relation to the natural horizon. This instrument is FAA certified, and can be used to replace the aircraft's turn coordinator when equipped with an inclinometer. This configuration includes a "Warning Flag" that is visible immediately upon Loss of vacuum or pressure. It is a very valuable upgrade as a safety feature. **Display Colors:** Blue/Brown **Note: Lighted instruments do not include lamp trays, please see accessories to order separately.**

Sigma-Tek	Model	Inclino-meter	Lighted	Panel Tilt	Part Number	Price
23-501-031-1	5000B-38	No	No	0	10-02078	---
1U149-012	5000B-40	No	Yes	0	10-00132	---
23-501-032-2	5000B-43	No	No	8	10-04653	---
1U149-012-2	5000B-52	No	Yes	8	10-04654	---
23-501-041-1	5000B-60	Yes	No	0	10-04656	---
23-501-042-2	5000B-61	Yes	No	8	10-04657	---
1U149-016-7	5000B-62	Yes	Yes	0	10-04658	---
1U149-016-8	5000B-63	Yes	Yes	8	10-04659	---

Accessories

BA14-24-BW3G (14 Volt Lamp Tray).....P/N 10-02757 ..... ---

BA28-24-BW3G (28 Volt Lamp Tray).....P/N 10-02758 ..... ---

IN

SIGMA-TEK 5000E/L SERIES AUTOPILOT ATTITUDE GYROS

The 5000E air-driven attitude gyro is another variation of our standard 5000B model. It includes inductive pickoffs that generate the signals necessary to drive an autopilot. The intuitive display has a moving horizon mask that indicates the position of the aircraft's wings in relation to the natural horizon. This attitude information is passed along to the autopilot system.

This is one of our most popular primary instruments. It is FAA approved, and can replace the turn coordinator when equipped with an inclinometer.

Many Sigma-Tek autopilot gyros are FAA PMA approved for use in ARC and Century CII, CIIB, CIII and CIV autopilot installations.

NOTE: Lighted instruments do not include lamp trays, please see accessories to purchase separately.

Specifications: • Height: 3.38" • Width: 3.38" • Depth: 7.51" • Weight: 2.2 lbs. max. • Markings: Matte white • Finish: Dull black • Temperature:-30° to 50° C • Vibration: (CPS:5 to 50 / Maximum Double Amplitude:0.020 in./ Maximum Acceleration:1.5 G's) • Humidity:0% to 95% at 32° C • Altitude:0 to 40,000 ft.

DISPLAY COLORS: BLUE / BLACK

Sigma-Tek	Model	Autopilot Model	Autopilot Output	Lighted	Panel Tilt	PMA	Part Number	Price
23-501-04-2	5000E-8	CFS 52D66	Roll	No	0	Yes	10-04892	---
23-501-05-2	5000E-9	CFS 52D67	Pitch & Roll	No	0	Yes	10-04894	---
1U149-006-1	5000E-10	CFS 52D66M	Roll	Yes	0	Yes	5000E-10	---
1U149-007-1	5000E-11	CFS 52D67M	Pitch & Roll	Yes	0	Yes	5000E-11	---

DISPLAY COLORS: BLUE / BROWN

23-501-04-24	5000E-20	CFS 52D66	Roll	No	0	Yes	10-04893	---
23-501-05-25	5000E-21	CDS 52D67	Pitch & Roll	No	0	Yes	10-04895	---
1U149-006-8	5000E-22	CFS 52D66M	Roll	Yes	0	Yes	10-04890	---
1U149-007-9	5000E-23	CFS 52D67M	Pitch & Roll	Yes	0	Yes	10-04891	---

Accessories

BA14-24-BW3G (14 Volt Lamp Tray).....P/N 10-02757 ..... ---
BA28-24-BW3G (28 Volt Lamp Tray).....P/N 10-02758 ..... ---

SIGMA-TEK 5000M SERIES CAGEABLE ATTITUDE GYROS

The 5000M is an air-driven gyro that has a pictorial horizon mask and fixed airplane. The mask moves to indicate climb, dive, and bank. Bank and pitch attitudes are displayed so that the pilot's sensing of the gyro indication is the same as the interpretation of the relation between the wings of the aircraft and the natural horizon during visual flight. The instrument is provided with a caging system which is functional through 360° of roll and 90° of pitch. When caging is engaged, pitch and roll indices are aligned within two degrees. This instrument is FAA certified, and can be used to replace the aircraft's turn coordinator when equipped with an inclinometer. The caging feature is very useful for quick erection and display alignment; a high priority for occasional aerobatic maneuvers and operations with short stops.

Display Colors: Blue/Brown

NOTE: Lighted instruments do not include lamp trays, please see accessories to purchase separately.

Sigma-Tek	Model	Warning Flag	Caging	Inclinometer	Lighted	Panel Tilt	Part Number	Price
1U149-021-1	5000M	No	Yes	No	Yes	0	10-02326	---
23-501-035-5	5000M-1	No	Yes	No	No	0	10-02327	---
23-501-036-6	5000M-2	No	Yes	No	No	8	10-02328	---
23-501-037-7	5000M-3	No	Yes	Yes	No	0	10-02329	---
23-501-038-8	5000M-4	No	Yes	Yes	No	8	10-02330	---
1U149-022-2	5000M-5	No	Yes	No	Yes	8	10-02331	---
1U149-023-3	5000M-6	No	Yes	Yes	Yes	0	10-02332	---
1U149-024-4	5000M-7	No	Yes	Yes	Yes	8	10-02333	---
1U149-025-5	5000M-8	Yes	Yes	Yes	Yes	0	10-04882	---
1U149-026-6	5000M-9	Yes	Yes	Yes	Yes	8	10-04883	---
23-501-039-9	5000M-10	Yes	Yes	Yes	No	0	10-04884	---
23-501-040-10	5000M-11	Yes	Yes	Yes	No	8	10-04885	---
23-501-043-3	5000M-12	Yes	Yes	No	No	0	10-04886	---
23-501-044-4	5000M-13	Yes	Yes	No	No	8	10-04887	---
1U149-027-7	5000M-14	Yes	Yes	No	Yes	0	10-04888	---
1U149-028-8	5000M-15	Yes	Yes	No	Yes	8	10-04889	---

Accessories

BA14-24-BW3G (14 Volt Lamp Tray).....P/N 10-02757 ..... ---
BA28-24-BW3G (28 Volt Lamp Tray).....P/N 10-02758 ..... ---

SIGMA-TEK 4000B SERIES STANDARD DIRECTIONAL GYROS

The 4000B is a standard air-driven directional gyro. As the aircraft turns left or right, gears on the sensing unit and dial shaft translate this rotation into rotation of the instrument's vertical dial. Left turns produce clockwise dial rotation and right turns produce counter-clockwise rotation. The gyro is controlled by a heading selector knob located on the lower left of the instrument. Pressing and turning the knob first disengages the dial shaft and then resets the dial to a new heading, which results in a new course indication. Releasing the selector knob re-engages the dial shaft. The on-course position of the pointer is always at the top of the azimuth circle (0° on the dial with the aircraft headed north). The Standard configuration can replace most air driven gyros with the major difference being in the layout and colors of the display.

Note: Lighted instruments do not include lamp trays, please see accessories to purchase separately.

Sigma-Tek	Model	Airplane Color	Index Markers	Dial @ 30°	Letters @ 90°	Lighted	Part Number	Price
1U262-001-9	4000B-8	White	White	White	No	No	10-05123	---
1U262-002-32	4000B-22	White	White	White	Yes	Yes	10-05124	---
1U262-001-39	4000B-30	Orange	Orange	White	Yes	No	4000B	---
1U262-002-42	4000B-31	Orange	Orange	White	Yes	Yes	10-00588	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SIGMA-TEK 4000C / D SERIES AUTOPILOT DIRECTIONAL GYROS

The 4000C/D is an air-driven directional gyro with A.C. autopilot pickoffs. Left turns produce clockwise dial rotation and right turns produce counter-clockwise rotation. Two knobs control the gyro. The left knob is used to cage the unit, and the right knob is used to select the instrument's heading. To change course, the right selector knob is pressed and turned to disengage the dial shaft and set the pointer to a new heading. Releasing the selector knob re-engages the pointer with the dial shaft. As the aircraft turns onto a new course, the pointer returns to its original position. The on-course position of the pointer is always at the top of the azimuth circle (0° on the dial with the aircraft headed north).
Some Auto-Pilot gyros are FAA PMA approved for use in several models of the Century and S-Tec Auto-Pilot systems.

Sigma-Tek	Model	Autopilot Model	Airplane Index	Dial @ 30°	Letters @ 90°	Lighted	PMA	Part Number	Price
1U262-003-14	4000C	52D54	White	White	No	No	Yes	11-05908	---
1U262-004-15	4000C-1	52D54M	White	White	Yes	Yes	Yes	10-02929	---
1U262-042-3	4000C-17	King	White	White	Yes	Yes	No	10-05137	---
1U262-003-65	4000C-18	52D54	Orange	White	No	No	Yes	10-05138	---
1U262-004-66	4000C-19	52D54M	Orange	White	Yes	Yes	Yes	10-05139	---
1U262-005-20	4000D-1	ARC 40760-0114 (G502A)	Yellow	White	Yes	No	No	10-05141	---
1U262-006-45	4000D-6	S-TEC (6404)	White	White	Yes	Yes	Yes	10-00049	---

SIGMA-TEK 4000H SERIES XYZ BOOTSTRAP DIRECTIONAL GYROS

A cost effective link to "bootstrap" other instruments requiring heading information for: display orientation to aircraft heading, heading stabilization functions, and other navigational calculations and/or solutions. Specific applications include: Argus Moving Map Display®, L-3 Avionics Stormscope®, and Insight Strike Finder®. The heading output exactly tracks the aircraft heading as depicted under the index pointer on the Directional Gyro. The synchro index and rotation reference is set to ARINC characteristics. The 26 VAC, 400 HZ heading synchro requires a readily available external excitation, preferable from the instrument/system receiving the heading output or from an independent inverter. Sigma Tek's Directional "Bootstrap" gyro includes options for lighting and interfaces for ARC, Century Flight System, and S-Tec autopilots.
Airplane Index: Orange; **Dial:** White at 30°

Sigma-Tek	Model	Autopilot Interface	Letters @ 90°	Lighted	Part Number	Price
1U262-031-1	4000H	None	Yes	Yes	10-05142	---
1U262-033-3	4000H-2	ARC	Yes	Yes	10-05143	---
1U262-034-4	4000H-3	ARC	Yes	No	10-05144	---
1U262-033-5	4000H-4	S-TEC	Yes	Yes	10-05145	---
1U262-034-6	4000H-5	S-TEC	Yes	No	10-02106	---
1U262-035-7	4000H-6	CFS	Yes	Yes	10-05146	---
1U262-036-8	4000H-7	CFS	Yes	No	10-05147	---
1U262-039-11	4000H-10	KING (DC)	Yes	Yes	10-05149	---
1U262-040-12	4000H-11	KING (DC)	Yes	No	10-05150	---
1U262-237-9	4000H-8	CFS (DC)	Yes	Yes	10-05148	---

Accessories for the above gyros
BA14-24-BW3G (14 Volt Lamp Tray).....P/N 10-02757 ..... ---
BA28-24-BW3G (28 Volt Lamp Tray).....P/N 10-02758 ..... ---

SIGMA-TEK 4000HR-SERIES HEADING REFERENCE DIRECTIONAL GYROS

The 4000HR air-driven directional gyro offers some of the best features of our other popular models. It inherited all of the functionality and reliability of the industry standard 4000B upon which it's based, and it picked up a heading reference bug from the 4000C autopilot model.
Many pilots find the heading reminder a valuable feature whenever the cockpit is busy, such as during an approach with heavy ATC traffic. Setting a new heading during a long, cross-country flight eliminates the tedious math associated with frequent navigational crosschecks. A quick glance at the instrument instantly reminds the pilot of his heading. The heading bug can be positioned anywhere around the heading card by turning the right knob.
Dial: White at 30°; **Letters at 90°**

Sigma-Tek	Model	Airplane Color	Index Markers	Lighted	Heading Reminder	Part Number	Price
1U262-007-33	4000HR-1	White	White	No	Yes	10-05151	---
1U262-007-40	4000HR-2	Orange	Orange	No	Yes	10-00469	---
1U262-010-41	4000HR-3	Orange	Orange	Yes	Yes	10-00095	---

Note: Lighted instruments do not include lamp trays, please specify aircraft voltage:
BA14-24-BW3G (14 Volt Lamp Tray).....P/N 10-02757 ..... ---
BA28-24-BW3G (28 Volt Lamp Tray).....P/N 10-02758 ..... ---

SIGMA-TEK 4000B ARINC-STYLE DIRECTIONAL GYROSCOPES

This instrument was developed for those pilots that prefer the distinct, professional look of an ARINC-styled cockpit. It is identical to the standard 4000B model differing mainly in aesthetics. Besides its distinct bezel and airplane, the display graphics and colors differentiate it from the standard model. A heading reminder bug is available as an option.
The ARINC gyros have a 3" bezel that matches existing ARINC flight director systems.
Airplane Color: Orange; **Dial:** White at 30°;

Sigma-Tek	Model	Index Markers	Letters @ 90°	Lighted	Part Number	Price
1U262-011-1	4000B-23	White	Yes	14 or 28V	10-05128	---
1U262-012-2	4000B-24	White	No	5V	10-05129	---
1U262-013-3	4000B-25	White	Yes	No	10-05136	---

SIGMA-TEK 1U367 ARINC-STYLE ATTITUDE GYRO

The 1U367 has a pictorial horizon mask and a fixed airplane. The mask moves to indicate climb, dive, and bank. Bank and pitch attitudes are displayed so that the pilot's sensing of the gyro's horizon indication is the same as the interpretation of the relationship between the wings of the aircraft and the natural horizon during visual flight. The instrument is operable following maneuvers of 360° in roll and 360° in pitch. Controlled precession is employed to achieve the 360° in pitch.
Note: Arinc-bezel lighted gyros have integral lighting as noted.
Display Colors: Blue/Brown

Sigma-Tek Part No.	Model	Lighted	Panel Tilt	Our Part No.	Price
1U367-205-5	1U367	none	0	10-05117	---
1U367-210-11	1U367	14V or 28V	8	10-05118	---

SIGMA-TEK HIGH-FLOW FITTINGS

53B423-001 - A 3/8" fitting is used for the pump output (pressure) in a typical vacuum installation having 5/8" hoses.
P/N 10-01150 ..... ---

53B423-002 - A 3/8" 45° fitting used for either inlet or outlet ports with installations having 5/8" hoses.
P/N 10-01151 ..... ---

53B423-003 - A 3/8" 90° short high-flow fitting used for either inlet or outlets with installations having 5/8" hoses.
P/N 10-01152 ..... ---

53B423-004 - A 3/8" 90° short high-flow fitting used for either inlet or outlets with installations having 5/8" hoses. P/N 10-01153 ..... ---

MID-CONTINENT INSTRUMENTS AND AVIONICS ELECTRIC ATTITUDE INDICATOR

Engineered as a primary or standby artificial horizon in fixed-wing aircraft and helicopters, this indicator's single connection makes installation a snap. This indicator is standard equipment on many OEM aircraft including the Beech Baron and Bonanza. Featuring 10-32 volt DC operation, anti-reflective glass, long-life lighting and 7,500 hours MTBF, this is a cost-effective and safe alternative to unreliable vacuum systems.

4300-311 - 10/32V, lighted, 0-20° ..... P/N 10-00751 ..... ---
Emergency power supply TS420 ..... P/N 11-05540 ..... ---
Knob Cover ..... P/N 10-06803 ..... ---

MID-CONTINENT INSTRUMENTS AND AVIONICS 3300 ELECTRIC DIRECTIONAL GYRO

Features: • Weighs just 1.9 lbs. – One pound less than most electric directional gyros • Multi-voltage 10–32 volt DC, remains valid until the aircraft main battery discharges to 10VDC • Direct replacement for many AIM205 and RC Allen RC15A units • Designed specifically for use in high vibration applications • Warning flag monitors rotor speed and power input • Anti-reflective glass enhances visibility and reduces fatigue • Approved to FAA TSO-C5e and RTCA DO-160E • Requires less than half the power of standard DG units • Long-life LED lighting, user selectable to 5, 14 or 28 volt input • One year limited warranty **Specifications**: Power Input: 10–32 VDC, Current Rating: At 14 VDC Start: 1.4A Max., Run: 0.44A nominal, At 28 VDC Start: 0.6A Max., Run: 0.22A nominal, Lighting: Internal LED lighting switchable to 5, 14 or 28 VDC input; wired through main connector, Weight: 1.9 lbs., Length: 4.65 inches, MTBF: 2,500 hours, Mating Connector: MS3116F8-4S ,Mounting: Rear panel mount in standard 31/8" round panel cutout

3300-10 no lighting ..... P/N 10-02821 ..... ---
3300-11 14V LED Lighting ..... P/N 10-04773 ..... ---
3300-11 28V LED Lighting ..... P/N 10-04774 ..... ---
4 Pin Connector MS3116E8-4S ..... P/N 10-00791 ..... ---

MID-CONTINENT INSTRUMENTS AND AVIONICS "LIFESAVER" ELECTRIC ATTITUDE INDICATOR

Fly with confidence and peace of mind with the Lifesaver® gyro. Even if every other system in your aircraft's avionics panel goes dark, the Lifesaver powers on. The only attitude indicator with a self-contained battery backup, it delivers one full hour of emergency attitude reference. 1 hr of precious time to pull you through when trouble strikes and all other power fails. Optional slip indicator can be installed anytime. No removal of gyro necessary. **Benefits**: Field replaceable lighting, Anti-reflective glass enhances visibility and reduces fatigue, Battery life 3 years in average aircraft environment, 10-32 VDC replacement for use in either 14 or 28V aircraft, May be installed in place of an existing turn coordinator or turn, and slip indicator per FAA advisory circular AC91-75. Lighted, 0–20° ..... P/N 10-00750 ..... ---
Beechcraft (Inclinometer) ..... P/N 10-06794 ..... ---
Delta ..... P/N 10-06798 ..... ---
Slip Indicator Kit ..... P/N 10-00764 ..... ---
Remote Battery Mounting Kit ..... P/N 10-00763 ..... ---
Replacement Battery Pack ..... P/N 10-01054 ..... ---
3/32" Front Mount Adapter ..... P/N 10-00765 ..... ---
1/2" Front Mount Adapter ..... P/N 10-00766 ..... ---

MPL 503 AIR PRESSURE SWITCHES

MPL 503 Series pressure switches sensitive inches/H 2 O or Knots. Accuracy and reliability offer the designer an excellent general purpose low pressure to electric interface for monitoring and control applications. The miniature size make the 503 Series ideal for OEM applications.

Description	Part No.	Price
MPL503E Air Pressure Switch Adjustable: 40-100" of H2O	11-02379	---
MPL503DO Air Pressure Switch Normally Open Setting	11-13476	---
MPL503DC Air Pressure Switch Normally Closed Setting	11-13477	---

FALCON ATTITUDE GYRO (VACUUM)

The Falcon Gauge Attitude Gyro provides a continuous visual display of the aircraft attitude with respect to the earth for maneuvering around the longitudinal (pitch), and lateral (roll) axes, and yaw. Vacuum type is standard air driven.

Non-TSO'd - for Experimental Aircraft Only

Non-TSO'd ..... P/N 10-22955 ..... ---
Gyro with 8° tilt ..... P/N 10-02242 ..... ---

FALCON DIRECTIONAL GYRO (VACUUM)

The vertical rotating azimuth card is controlled by a precision gyroscope air-driven. The directional gyro will give correct heading information through ±60° of aircraft attitude in roll and pitch, 360° in yaw. A caging knob is provided to reset the gyro to the magnetic compass. Similar to Air Italia Gyros.

Non-TSO'd - for Experimental Aircraft Only

P/N 10-22950 ..... ---

Falcon gyros can tolerated some aerobatic flight, but aerobatics can reduce the life of the gyro. It is recommended that the gyros be rem oved when the aircraft will be performing extensive aerobatic maneuvers. The Falcon electric gyros have caging knobs, but the vacuum gyros do not. Made in china.

CASTLEBERRY ELECTRIC ATTITUDE INDICATOR

The high quality electric attitude indicator replaces the turn and bank and may be installed in the same panel location, freeing up crowded panel space. Installation of these units is straightforward. It has an inclinometer for use in standard rate turns and a failure warning flag to indicate loss of gyro RPM. When used together with the Castleberry Emergency Power Unit, Model EPU 28-24RMT, this instrument provides the pilot with a welcome margin of insurance in case of aircraft electrical power failure.

Features: • Inclinometer • Power failure flag • Pull to cage knob • Backlit • Standard 3 1/8 in. diameter

Model No.	Description	Part No.	Price
300-14EL	14V Gyro **	10-02823	---
300-14EL	28V Gyro With 8° Tilt	10-02829	---
300-14ELP	300-14EL With Auto Pilot outputs.*	10-02826	---

***Please Specify at time of order 10-32V or tilt if desired.**
****Light Tray required.**

CASTLEBERRY EMERGENCY POWER BACK-UP EPU-2

TSO'd emergency power supply, Model EPU 28-24RMT that can replace some older non TSO'd units made by Terra and AIM that are no longer in production. This unit provides a 24 VDC output up to 5 Amps for 30 minutes for emergency buss power to operate the standby attitude gyro with extra capacity of up to 4 amps for other critical instrument or avionics. This is economical insurance in a 7.5 pound package for aircraft frequently involved in IFR operations. Additional features of the new Castleberry unit include sealed leadacid batteries, now free from corrosion and shipping problems under hazardous materials regulations and an optional fuselage mounted external connection for testing and battery certifi cation. Castleberry now also produces the PAC-75, a new 28-VDC electrical inverter.

Emergency Power Supply EPU-2 ..... P/N 11-05822 ..... ---
EPU Connector ..... P/N 11-07713 ..... ---
Rack Mount and Connector for EPU-2 ..... P/N 11-05823 ..... ---
Component Maintenance Manual ..... P/N 11-00187 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MID-CONTINENT INSTRUMENTS AND AVIONICS MINI 2-INCH ATTITUDE INDICATORS

The Mini Gyro offers big features in a compact package. At half the cost of the competition, the Mini Gyro not only saves panel space, but also time and money. An ideal standby instrument, this TSO-approved indicator has 10-32 volt DC operation and is an attractive alternative to vacuum systems. It features unique LED lighting selectable to 5, 14 or 28 volts. Remote emergency power supply available for this indicator (P/N 11-05540).

Emergency Power Supply.....P/N 11-05540 ..... ---

MID-CONTINENT INSTRUMENTS & AVIONICS STANDBY ATTITUDE MODULE MD302

SAM® is the industry's first digital standby instrument to provide attitude, altitude, airspeed and slip information to the pilot in an advanced, 2-inch format. SAM delivers an easy-to-fit, compact design with selectable orientation (horizontal and vertical) like no other, ensuring a perfect fit within any panel. The unique two-screen display features high-definition graphics and extra-wide viewing angles, and at 1.6 pounds, SAM weighs less than just one of the three instruments it's designed to replace.

See www.aircraftspruce.com for complete list of features and specifications.

Model No.	Configuration	Part No.	Price
MD302 - 6420302-1	Digital, 10–32 VDC, Attitude, Altitude, Airspeed, Slip, Internal battery, Black bezel	10-05081	---
MD302 - 6420302-2	Digital, 10–32 VDC, Attitude, Altitude, Airspeed, Slip, No battery, Black bezel	10-06017	---
MD302 - 6420302-3	Digital, 10–32 VDC, Attitude, Altitude, Airspeed, Slip, Internal battery, Gray bezel	10-06018	---
MD302 - 6420302-4	Digital, 10–32 VDC, Attitude, Altitude, Airspeed, Slip, No battery, Gray bezel	10-06019	---
MD302 - 6420302-5	No display, 10–32 VDC, Remote mounted, ARINC output, No battery	10-06020	---

MID-CONTINENT INSTRUMENTS & AVIONICS MD32 MAGNETOMETER

The MD32 Magnetometer is designed specifically for the MD302 Standby Attitude Module — SAM®. The MD32 is FAA TSO-certified and delivers independent heading reference without orientation limitations or the need for special installation hardware. Its compact size, unique mounting flexibility, and convenient cockpit calibration ensure easy, economical installation.

P/N 10-06594 ..... ---

VOLT & VAC ALERT

A gyro instrument can start giving false information in less than one minute, and it is important that the pilot become instantly aware of a vacuum loss. The Volt & Vac Alert monitors instrument vacuum and electrical voltage. Should either fall below set values, the system will provide an instantly recognizable voice warning directly in the pilots headset, and then flash a light positioned within the normal gyro scan area, providing him with instant recognition of a problem. The Volt & Vac Alert is STC - PMA approved.

P/N 10-00393 ..... ---

SIGMA TEK CAGEABLE ATTITUDE GYROS

Short stops (engine off less than twelve minutes) and some aerobatic maneuvers may cause your attitude gyro to tumble or precess from its vertical reference. When the rotor is spinning, the gyros normal erection system is slow and can take several minutes to correct a large erection error. This non-locking caging feature allows the pilot to quickly align the gyro display and rotor to gyro case reference. The attitude gyro should only be caged for quick alignment during straight and level VFR flight using well defined earth horizon for reference or prior to take off. **All lighted gyros must order tray separately.**

Part No.	Description	Price
5000B	Standard Gyro, Unlighted (non-cageable)	---
5000B-46	With Inclinometer, 0° Panel Tilt	---
5000B-45	With Inclinometer, 0° Panel Tilt, Lighted	---
5000B-51	With Inclinometer, 8° Panel Tilt	---
5000B-53	With Inclinometer, 8° Panel Tilt, Lighted	---
10-00111	5000B Light Tray 14V	---
10-00112	5000B Light Tray 24V	---

B&C LYCOMING VACUUM PUMP PAD ADAPTER INVERTED OIL PICKUP

This provides a direct replacement for the Lycoming vacuum pump pad adapter. Its unique design offers both a standard vacuum pump pad adapter AND provision for inverted oil pickup. The vacuum pump pad is often used for a B&C spline-driven alternator, such as the SD8 or SD20. Aircraft with oil systems using the standard "T" fitting on the firewall will typically experience a 3 to 5 second drop into the "yellow" oil pressure range after rolling inverted. However with this installed, the oil pressure will have a momentary blip or "wiggle" on the oil pressure gauge as the ball valve switches ends. As a result, the engine receives better lubrication and prop surges are lessened. The comes with oil seal installed, gaskets, and an MS20822-10D 90 degree fitting. Just slip the existing vacuum pump gear and thrust washer in, and it is ready for installation on the engine. The standard Lycoming vacuum pump gear and washer will fit (gear and washer not included). Alternate P/N: VAC-2/4

BC704-H For 4 Cylinder Engines.....P/N 07-06790 .....---

BC706-H For 6 Cylinder Engines.....P/N 07-06795 .....---

VENTURI

2" VENTURI

This small aluminum venturi provides 2" Hg vacuum for operating turn/bank indicator. Has 1/8" NPT port. Use 1/4" tubing for hookup.

Wt. 3.5 oz..... P/N 15045 ..... ---

4" VENTURI

This venturi develops 4" Hg suction from double-throat venturi and 10" long horn. Used to operate a directional gyro or gyro horizon. When operating a directional gyro there is sufficient capacity to also operate a turn/bank. All aluminum construction. May require a suction regulator. Wt. 0.9 lb.

P/N 15050 ..... ---

9' VENTURI

This "super venturi" is similar in appearance to the 4" venturi but with redesigned air passages and a recontoured, long (11-1/4") horn. It pulls enough vacuum to operate a gyro horizon, directional gyro and a turn/bank. Must be used with a suction regulator

P/N 15052 ..... ---

IN

RC ALLEN TURN COORDINATOR 3 INCH INDICATORS

Used in many production aircraft. Incorporates an electrical Gyro Turn Indicator with an inclinometer. The inclinometer, by movement of a ball in relation to the lubber lines, indicates the slip angle of aircraft while in a turn. The airplane on the dial rotates with reference to the indices. A power failure flag drops into view whenever the supply voltage is lost or when voltage has dropped below a level acceptable for proper operation of the gyro. Operates on 14 to 28V DC. New manufacture. First installation requires electrical connector and clamp.
Dimensions: Length: 6 1/5 in. Max, Width: 3 3/8 in Max, Height:3 3/8 in Max, Weight: 1.9 lbs. Meets or exceeds requirements of FAA TSO C3b

Description	Model	Part No.	Price
Unlighted - Mating Connector: MS3106A-10SL-3S	RCA82A-11	10-01372	---
Mating Connector	MS3106A-10SL-3S	10-00789	---

RC ALLEN RCA8310-3 SERIES ELECTRIC DIGITAL TURN COORDINATORS

Designed to be intuitive to use, and look and react the same as a mechanical gyro instrument. Because the RCA8310-3 has no mechanical gyroscope, it is much more stable and reliable than mechanical gyro instruments. It can be set to output all necessary signals for legacy autopilot applications. Optional features, such as Internal Battery Back-up (recommended) and NVIS compatibility are also available. Comes standard with a variety of customizations allowing you to select between three classic/traditional looks: 1) Turn Coordinator 2) Turn and Bank (with doghouse indexes) and 3) Turn and Bank (without doghouse indexes). The autopilot output signals can be disabled if not required. Each configuration displays a ball type inclinometer (slip indicator) to show slip and skid for a coordinated turn.
RCA8310-3 No Battery.....P/N 10-07710 ..... ---
RCA8310-3 With Battery Back-up.....P/N 10-07708 ..... ---
RCA8310-3 No Battery With NVIS .....P/N 10-07711 .....
--- RCA8310-3With Battery and NVIS .....P/N 10-07709 ..... ---

WINTER SLIP INDICATORS

The basic flight instrument for co-ordinated turns. Available in two styles: Rectangular model fits easily in cramped panel space. Square model matches a 2-1/4" instrument hole, fits on either side of the panel. Both feature finely crafted metal cases and precision ball and tube assemblies.
Square .....P/N 10-03812 ..... ---
Rectangle .....P/N 10-03857 ..... ---

BANK INDICATORS (BALL TYPE)

In turning, instantly register slightest departure from the correct banking angle. Bank scale has white markings on black background. New manufacture. Available in 2 models:

10°-10° Scale, 2.25" between mounting holes.
P/N 10-00600 ..... ---

20° - 20° Scale, 5" between mounting holes.
P/N 10-00700 ..... ---

SWIFT BANK INCLINOMETER

The bank indicator has the function of slip indication. A very practical and simple instrument. It can be installed on an LSA, it is particularly useful in flight training.
Center distance of two Installation Holes is 48.6mm.
P/N 10-06984 ..... ---

MID-CONTINENT INSTRUMENTS TURN & SLIP INDICATOR

2 Inch - Widely used in the turbo-prop market as standard equipment, this dependable instrument fits into the tightest panel space. The AC brushless rotor offers great reliability. Internal lighting options of 5, 14 and 28 volt offer greater flexibility. These were factory installed on the DeHavilland Dash 8 and Boeing Chinook CH47. 28V Turn & Slip....P/N 10-00310 .....

MID-CONTINENT INSTRUMENTS TURN & SLIP (ELECTRIC)

Built-in voltage regulator allows it to be used in either 14V or 28V systems. Small, compact unit and weighs only 1.2 lbs. Incorporates a small "power out" warning window which is black when normal current is being supplied but turns red in the case of electrical power failure. This turn and bank is now being used in many production aircraft. New installation requires electrical connector and cable clamp. New manufacture by Electrical Gyro Corp.
Size: 3-3/8'' x 3-3/8" x 3-3/4" long.
Unlighted .....P/N 1234T100..... ---
14V Bezel-Lit .....P/N 10-22614..... ---
28V Bezel-Lit .....P/N 10-22628..... ---
MS3106A-10SL-3S Electrical Plug Connector..P/N 10-00789..... ---

MID-CONTINENT INSTRUMENTS TURN COORDINATORS (ELECTRIC)

Certified to FAA TSO C3b. OEM standard - proven reliability. Includes power warning indicator. **Features:** • 4500 hours MTBF, more than double the original "Z" design • Brushless AC rotor operates on 14 or 28 VDC • Proven reliability through HALT (Highly Accelerated Life Testing) requirements and OEM usage since 1999 • Improved "Off" warning flag pulls out of view when rotor is up to speed • Is a direct replacement for the popular 1394T100-7Z and most standard 3-pin turn coordinators.
1394T100-7B Unlighted 12-32V.....P/N 10-02108..... ---
1394T100-14RB Low Wing Turn Coordinator Autopilot -
For use on low wing aircraft.....P/N 10-04022..... ---
MS3106A-10SL-3S Electrical Plug Connector...P/N 10-00789..... ---

RC ALLEN TURN & BANK (ELECTRIC)

Instrument is powered by an electrically driven DC precision gyro with an inclinometer. It gives the pilot turn and bank information. The RCA56 series is an all volt instrument, with a power warning flag, a black or white ball inclinometer and either lighted or non-lighted. DIMENSIONS: Length: 6 1/4 in. Max Width: 3 3/8 in. Max Height: 3 3/8 in. Max Weight: 1.9 lbs.
Meets or exceeds requirements of FAA TSO C3b. New manufacture by A.I.D. RC Allen. New installation requires plug connector & cable clamp.
RCA56-3B, UNLIT.....P/N 10-01684 ..... ---
RCA56-3BL, LIT .....P/N 10-02138 ..... ---

AN5820-1 TURN & BANK (VACUUM)

AN5820-1 Turn & Bank indicator completely overhauled and certified to FAA requirements. Fresh matte-white dial markings with "dog-houses". Power: 1.8" to 2.2" Hg vacuum produced by a 2" venturi or vacuum pump. Size: 3.25"x 3.25"x 4.75" long. Weight: 1.5 lbs. 1 year warranty .....P/N AN5820-1 ..... ---

TURN & BANK KIT

Consists of an overhauled and certified Turn & Bank indicator, 2" venturi, hoses, fittings and instrument screws.P/N 10-00300 ..... ---

CABLE CLAMP MS3057-4A

This MS3057-4A can be used with Turn Coordinator TC02E-3-2 or Turn & Bank Indicator TB02E-2-1 .....P/N 11-04969 ..... ---

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TEMPEST DRY AIR PUMPS

TEMPEST TORNADO 3000 DRY AIR PUMPS

New revolutionary LRT oil drain, patent pending feature is designed to drain oil, caused by a leaking Garlock Seal, before it reaches the drive coupler. Provides a tell tale leak path. Closed front ends, designed to eliminate oil and oil residues from entering into the pump. Helps prevent pump failures caused by oil entering into the drive mechanism or rotor and vanes. 3 year 1300 hour warranty

Tempest Tornado 3000 Model AA3215CC ..... P/N 10-00609 ..... ---
Tempest Tornado 3000 Model AA3216CW ..... P/N 10-00610 ..... ---
Tempest Tornado 3000 Model AA3215CC-9 .... P/N 10-00611 ..... ---
Tempest Tornado 3000 Model AA3226CW ..... P/N 10-06598 ..... ---

VACUUM PUMP APPLICATION
See www.aircraftspruce.com for complete listing of vacuum pump applications for most general aviation aircraft.

VACUUM PUMP COOLING SHROUDS FOR AIRBORNE AND TEMPEST

Cooling shrouds have been proven to reduce pump operating temperature and therefore extend service life. Testing has proven reduction in operating temperature by as much as 15%. Saves money - extends service life of dry air pumps. AA20T fits all 200/240 series pumps. AA40T fits all 400 series pumps. Sigma - Tek® pumps are not eligible.

AA207 ..... P/N 10-02796 ..... ---
AA40T ..... P/N 10-02797 ..... ---

TEMPEST WEAR INDICATOR TOOL KIT

Tempest Wear Indicator Tool Kit.
Kit includes: 3 Star Lockwashers (82-50122-2A2), 3 Hole Plugs (82-50122-2A1), 1 WIP Tool (82-501222A6T)
P/N 10-04814 ..... ---

TEMPEST ELECTRIC AUXILIARY DRY AIR PUMPS

Electric auxiliary dry air pumps are recommended for single engine aircraft flown in IFR conditions as a back-up in the event the primary vacuum pump fails. These pumps are FAA-PMA approved as direct replacements for Airborne pumps previously installed under STC eligibility and STC approval for these pumps for many additional aircraft is pending.

28VEC ..... Electric Auxiliary Dry Air Pump Model AA4A2-1 ..... P/N 10-00585 ..... ---
14VEC ..... Electric Auxiliary Dry Air Pump Model AA4A3-1 ..... P/N 10-00584 ..... ---

TEMPEST DRY AIR PUMPS

Tempest dry air pumps, from Aero Accessories, are 100% new production and use all new components. They are FAA-PMA approved replacements for like and similar models on many installations. These pumps are available in the 200, 240, and 400 series.
The AA215CC series come with a 1-year, unlimited hour warranty and the AA241CC, AA242CW, and the AA441CC and AA442CW series come with a 1-year, 500 hour warranty. Warranties expire 2-years from date of manufacture. **Addition Core Charge applied to Overhauled Pumps**
***Core Rebate available for new pumps.**

TEMPEST DRY AIR PUMPS - OVERHAULED

Model	Description	Part No.	Price
215CCWIP	Overhauled Dry Air Pump w/WIP	10-24000-1	---
216CWWIP	Overhauled Dry Air Pump w/WIP	10-24600-1	---
241CC	Overhauled Dry Air Pump	10-24700-1	---
243CC-13	Overhauled Dry Air Pump	10-01969	---
243CC-15	Overhauled Dry Air Pump	10-01968	---
242CW	Overhauled Dry Air Pump	10-24800-1	---
244CW-4	Overhauled Dry Air Pump	10-01971	---
244CW-10	Overhauled Dry Air Pump	10-01972	---
441CC-OH	Overhauled Dry Air Pump	10-23500-1	---
441CC-3	Overhauled Dry Air Pump	10-01974	---
441CC-7	Overhauled Dry Air Pump	10-01975	---
441CC-9	Overhauled Dry Air Pump	10-01977	---
441CC-11	Overhauled Dry Air Pump	10-01978	---
441CC-17	Overhauled Dry Air Pump	10-01979	---
441CC-23	Overhauled Dry Air Pump	10-01980	---
442CW	Overhauled Dry Air Pump	10-23600-1	---
442CW-4	Overhauled Dry Air Pump	10-01981	---
442CW-6	Overhauled Dry Air Pump	10-01982	---
442CW-10	Overhauled Dry Air Pump	10-01984	---
442CW-12	Overhauled Dry Air Pump	10-01146	---
442CW-14	Overhauled Dry Air Pump	10-01985	---
442CW-20	Overhauled Dry Air Pump	10-01986	---

TEMPEST DRY AIR PUMPS - NEW

Model	Description	Part No.	Price
AA241CC	New Dry Air Pump	10-24700	---
AA243CC-13	New Dry Air Pump	10-01987	---
AA243CC-15	New Dry Air Pump	10-01988	---
AA243CW	New Dry Air Pump	10-24800	---
AA244CW-4	New Dry Air Pump	10-01989	---
AA244CW-10	New Dry Air Pump	10-01990	---
AA3215CC	New Dry Air Pump	10-00609	---
AA3216CW	New Dry Air Pump	10-00610	---
AA3215CC-9	New Dry Air Pump	10-00611	---
AA441CC	New Dry Air Pump	10-23500	---
AA441CC-3	New Dry Air Pump	10-01991	---
AA441CC-7	New Dry Air Pump	10-01992	---
AA441CC-9	New Dry Air Pump	10-01993	---
AA441CC-11	New Dry Air Pump	10-01994	---
AA441CC-17	New Dry Air Pump	10-01995	---
AA442CW	New Dry Air Pump	10-23600	---
AA442CW-4	New Dry Air Pump	10-01996	---
AA442CW-6	New Dry Air Pump	10-01997	---
AA442CW-8	New Dry Air Pump	10-01998	---
AA442CW-10	New Dry Air Pump	10-01999	---
AA442CW-12	New Dry Air Pump	10-02001	---
AA442CW-14	New Dry Air Pump	10-02002	---
AA442CW-20	New Dry Air Pump	10-02003	---

IN

TEMPEST PNEUMATIC COMPONENTS

PNEUMATIC FITTINGS

Model	Description	Part No.	Price
AA1K1-4-6	Fitting -1/4 NPT x 3/8 Hose	10-00914	---
AA1K1-4-8	Fitting -1/4 NPT x 1/2 Hose	10-01923	---
AA1K1-6-8	Fitting -3/8 NPT x 1/2 Hose	10-00915	---
AA1K1-6-10	Fitting -3/8 NPT x 5/8 Hose	10-00916	---
AA1K1-8-10	Fitting -1/2 NPT x 5/8 Hose	10-00917	---
AA1K1-8-12	Fitting -1/2 NPT x 3/4 Hose	10-01925	---
AA1K8-6-8	Fitting -3/8 NPT x 1/2 Hose	10-01926	---
AA1K8-6-10	Fitting -3/8 NPT x 5/8 Hose	10-01147	---
AA1K9-4-6	Fitting -1/4 NPT x 3/8 Hose (A-45O)	10-01927	---
AA1K9-6-10	Fitting -3/8 NPT x 5/8 Hose (A-45O)	10-01928	---
AA1K10-2-4	Fitting -1/8 NPT x 1/4 Hose	10-01929	---
AA1K10-4-6	Fitting -1/4 NPT x 3/8 Hose	10-00918	---
AA1K10-4-8	Fitting -1/4 NPT x 1/2 Hose	10-01932	---
AA1K10-6-10	Fitting -3/8 NPT x 5/8 Hose	10-01933	---
AA1K10-6-12	Fitting -3/8 NPT x 3/4 Hose	10-01934	---
AA1K10-8-12	Fitting -1/2 NPT x 3/4 Hose	10-01935	---
AA1K14-6-6-6	Fitting -3/8 NPT x 3/8 x 3/8 Hose	10-01936	---
AA1K22-10-10	Fitting -5/8 NPT x 5/8 Hose	10-01148	---
AA1K24-2	Fitting -3/4 Hose Flange	10-01939	---
AA1K30-6-6-4	Fitting -3/8 x 3/8 x 1/4 Hose	10-01940	---
AA1K30-10-6-6	Fitting -5/8 x 3/8 x 3/8 Hose	10-01942	---
AA1K31-4-6-4	Fitting -1/4 NPTx1/2x3/8x1/4 Hose	10-01943	---
AA1K43-10-10	Fitting -5/8 x 5/8 Hose	10-01949	---

PNEUMATIC FILTERS

Model	Description	Part No.	Price
AAD9-14-3	Filter	10-00923	---
AAD9-14-5	Filter	10-00924	---
AAD9-18-1	Filter	10-01354	---
AA2J4-4	Filter	10-01945	---
AA2J4-6	Line Mounted Filter	10-01946	---
AA2J4-7	Line Mounted Filter	10-01947	---
AA1J7-1	Gyro Filter Assembly	10-01948	---
AA1J7-2	Gyro Filter Assembly	10-01949	---
ARB3-5-1	Garter Filter	10-01333	---

MISCELLANEOUS PARTS

Model	Description	Part No.	Price
82-06768	Coupling	10-01951	---
82-50130B	Flange Gasket	10-01952	---
82-50195	WIP Plug-New Pumps Only	10-01954	---
82-50195P	WIP Plug-New Pumps Only-Pkg. of 10	10-01955	---
82-50195A	WIP Plug-O/H Pumps Only	10-01958	---
82-50195AP	WIP Plug-O/H Pumps Only-Pkg. of 10	10-01959	---
82-50155DP	LRT Diverter Kit	10-01961	---
AA9144	Prop Governor Gasket	10-01962	---
AAD5-77-1	WIP Plug-O/H Pumps Only-Pkg. of 10	10-01963	---
AAF7-236-1	Aux. Switch 14 Volt DC	10-01964	---

NEW VACUUM REGULATORS

Model	Description	Part No.	Price
AA1H5-25A	Regulating Valve	10-03457	---
AA2H3-2	Regulating Valve	10-03458	---
AA2H3-5	Regulating Valve	10-03459	---
AA2H3-6	Regulating Valve	10-03460	---
AA2H3-12	Regulating Valve	10-03461	---
AA2H3-23	Regulating Valve	10-03462	---
AA2H3-48	Regulating Valve	10-03463	---
AA2H3-27	Piper Aircraft (PA44-180 and PA44-180T) Vacuum Regulator	10-06257	---

PNEUMATIC CHECK VALVES

Model	Description	Part No.	Price
AA1H37-1	Tempest Check Valve	10-06618	---
AA1H37-3	Tempest Check Valve	10-06619	---
AA1H37-4	Tempest Check Valve	10-06620	---

OVERHAULED AIRBORNE SOLENOIDS

Model	Description	Part No.	Price
1H15-6	Solenoid	10-01860	---

OVERHAULED AIRBORNE VACUUM MANIFOLDS

Model	Description	Part No.	Price
1H5-1	Vacuum Manifold	10-01861	---
1H5-2	Vacuum Manifold	10-01862	---
1H5-3	Vacuum Manifold	10-01863	---
1H5-4	Vacuum Manifold	10-01864	---
1H5-6	Vacuum Manifold	10-01865	---
1H5-8	Vacuum Manifold	10-01866	---
1H5-9	Vacuum Manifold	10-01867	---
1H5-10	Vacuum Manifold	10-01868	---
1H5-13	Vacuum Manifold	10-01869	---
1H5-14	Vacuum Manifold	10-01870	---
1H5-18	Vacuum Manifold	10-01871	---
1H5-19	Vacuum Manifold	10-01872	---
1H5-20	Vacuum Manifold	10-01873	---
1H5-21	Vacuum Manifold	10-01874	---
1H5-22	Vacuum Manifold	10-01875	---
1H5-23	Vacuum Manifold	10-01876	---
1H5-24	Vacuum Manifold	10-01877	---

OVERHAULED AIRBORNE PRESSURE MANIFOLDS

Model	Description	Part No.	Price
1H24-3	Pressure Manifold	10-01879	---
1H24-6	Pressure Manifold	10-01880	---
1H24-7	Pressure Manifold	10-01881	---
1H24-8	Pressure Manifold	10-01882	---
1H24-10	Pressure Manifold	10-01883	---
1H24-11	Pressure Manifold	10-01884	---
1H24-12	Pressure Manifold	10-01885	---
1H24-18	Pressure Manifold	10-01886	---
1H24-20	Pressure Manifold	10-01887	---

OVERHAULED AIRBORNE CHECK VALVES

Model	Description	Part No.	Price
1H37-1	De-Ice Valve	10-01888	---
1H37-3	De-Ice Valve	10-01889	---
1H37-4	De-Ice Valve	10-01890	---
1H43-11	De-Ice Valve	10-01891	---
1H43-12	De-Ice Valve	10-01892	---
1H43-13	De-Ice Valve	10-01893	---
1H43-14	De-Ice Valve	10-01894	---
1H43-15	De-Ice Valve	10-01895	---
1H43-16	De-Ice Valve	10-01896	---
1H43-20	De-Ice Valve	10-01897	---
1H43-21	De-Ice Valve	10-01898	---
1H44-12	De-Ice Valve	10-01899	---
1H44-16	De-Ice Valve	10-01906	---
1H44-17	De-Ice Valve	10-01907	---
1H44-18	De-Ice Valve	10-01908	---
2H22-11	De-Ice Valve	10-01909	---
2H22-16	De-Ice Valve	10-01910	---
2H48-14	De-Ice Valve	10-01911	---
2H48-22	De-Ice Valve	10-01913	---
2H48-23	De-Ice Valve	10-01914	---
2H48-24	De-Ice Valve	10-01916	---
2H59-3	De-Ice Valve	10-01917	---
2H59-4	De-Ice Valve	10-01919	---
2H59-8	De-Ice Valve	10-01920	---
2H59-16	De-Ice Valve	10-01921	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TEMPEST PNEUMATIC COMPONENTS

TEMPEST OVERHAULED AIRBORNE VACUUM REGULATORS

Model	Part No.	Price
2H3-1	10-02970	---
2H3-2	10-05733	---
2H3-12	10-05734	---
2H3-4	10-02972	---
2H3-7	10-02976	---
2H3-25	10-03013	---
2H3-11	10-02980	---
2H3-13	10-02982	---
2H3-14	10-02983	---
2H3-22	10-03007	---
2H3-8	10-02977	---
2H3-9	10-02978	---
2H3-5	10-02973	---
2H3-10	10-02979	---
2H3-23	10-05737	---
2H3-15	10-02984	---
2H3-27	10-03015	---
2H3-32	10-03017	---
2H3-35	10-03018	---
2H3-38	10-03019	---
2H3-44	10-03022	---
2H3-45	10-03023	---
2H3-46	10-03024	---
2H3-48	10-03025	---
2H3-19	10-03006	---
2H3-1	10-06901	---
2H3-9	10-06912	---
2H3-10	10-06902	---
2H3-13	10-06903	---
2H3-16	10-06904	---
2H3-21	10-06905	---
2H3-22	10-06906	---
2H3-25	10-06907	---
2H3-39	10-06908	---
2H3-47	10-06911	---
1E15-4	10-06876	---
1E15-7	10-06877	---
1H30-1	10-06882	---
1H30-2	10-06886	---
1H30-3	10-06887	---
1H30-6	10-06888	---
1H30-8	10-06889	---
1H30-9	10-06890	---
1H30-11	10-06883	---
1H30-13	10-06884	---
1H30-14	10-06885	---
1H30-16	10-06898	---
1H30-25	10-06899	---

TEMPEST OVERHAULED VACUUM MANIFOLD

Model	Description	Part No.	Price
2H3-1	Vacuum Manifold	10-02970	---
2H3-4	Vacuum Manifold	10-02972	---
2H3-5	Vacuum Manifold	10-02973	---

TEMPEST OVERHAULED PRESSURE MANIFOLD

Model	Description	Part No.	Price
2H3-7	Pressure Manifold	10-02976	---
2H3-8	Pressure Manifold	10-02977	---
2H3-10	Pressure Manifold	10-02979	---
2H3-11	Pressure Manifold	10-02980	---
2H3-13	Pressure Manifold	10-02982	---
2H3-14	Pressure Manifold	10-02983	---
2H3-15	Pressure Manifold	10-02984	---
2H24-8	Pressure Manifold	10-06897	---
1H24-16	Pressure Manifold	10-06879	---
1H24-19	Pressure Manifold	10-06880	---
1H24-21	Pressure Manifold	10-06881	---

TEMPEST OVERHAULED CHECK VALVE

Model	Description	Part No.	Price
2H3-19	Check Valve	10-03006	---
2H3-22	Check Valve	10-03007	---

TEMPEST OVERHAULED DE-ICE VALVES

Model	Description	Part No.	Price
O/H 2H3-20	Overhauled Regulating Valve	10-03399	---
2H3-25	De-Ice Valve	10-03013	---
2H3-27	De-Ice Valve	10-03015	---
2H3-32	De-Ice Valve	10-03017	---
2H3-35	De-Ice Valve	10-03018	---
2H3-38	De-Ice Valve	10-03019	---
2H3-44	De-Ice Valve	10-03022	---
2H3-45	De-Ice Valve	10-03023	---
2H3-46	De-Ice Valve	10-03024	---
2H3-48	De-Ice Valve	10-03025	---
1H22-11	De-Ice Valve	10-06878	---
1H43-11	De-Ice Valve	10-06891	---
1H43-23	De-Ice Valve	10-06892	---
1H44-11	De-Ice Valve	10-06893	---
1H44-20	De-Ice Valve	10-06894	---
1H44-22	De-Ice Valve	10-06895	---

TEMPEST AA1H43 SERIES DE-ICE VALVES

Model	Description	Part No.	Price
AA1H43-13	De-Ice Valve	10-07099	---
AA1H43-14	De-Ice Valve	10-07101	---
AA1H43-15	De-Ice Valve	10-07102	---
AA1H43-16	De-Ice Valve	10-07103	---
AA1H43-20	De-Ice Valve	10-07104	---
AA1H43-21	De-Ice Valve	10-07105	---

TEMPEST OVERHAULED AIRBORNE PRESSURE REGULATORS CROSS-REFERENCE

Model	Description	Superseded by
1H30-1	Overhauled Airborne Pressure Regulators	**2H30-1**
1H30-2	Overhauled Airborne Pressure Regulators	**2H30-2**
1H30-3	Overhauled Airborne Pressure Regulators	**2H30-3**
1H30-6	Overhauled Airborne Pressure Regulators	**2H30-6**
1H30-8	Overhauled Airborne Pressure Regulators	**2H30-8**
1H30-9	Overhauled Airborne Pressure Regulators	**2H30-9**
1H30-11	Overhauled Airborne Pressure Regulators	**2H30-11**
1H30-13	Overhauled Airborne Pressure Regulators	**2H30-13**
1H30-14	Overhauled Airborne Pressure Regulators	**2H30-14**

TEMPEST OVERHAULED PRESSURE REGULATORS

Model	Description	Part No.	Price
2H30-1	Pressure Regulators	10-03029	---
2H30-2	Pressure Regulators	10-03037	---
2H30-3	Pressure Regulators	10-03039	---
2H30-6	Pressure Regulators	10-03042	---
2H30-8	Pressure Regulators	10-03043	---
2H30-9	Pressure Regulators	10-03045	---
2H30-11	Pressure Regulators	10-03047	---
2H30-13	Pressure Regulators	10-03053	---
2H30-14	Pressure Regulators	10-03054	---
2H30-17	Pressure Regulators	10-03056	---
2H30-27	Pressure Regulators	10-03057	---
2H30-28	Pressure Regulators	10-03060	---
2H30-32	Pressure Regulators	10-03066	---
2H30-35	Pressure Regulators	10-05944	---

VACUUM PUMP FITTINGS – VACUUM PUMPS

RAPCO FAA APPROVED FITTINGS

RA1K1-6-10

This 90° fitting with 5/8" hose and 3/8" NPT is used in most inlet threaded ports of 200 series vacuum pumps and is a FAA PMA direct replacement for the Airborne Model 1K1-6-10. This 90° fitting has superior flow and low pressure loss.....P/N 10-00395 .....

RA1K8-6-10

This 152° fitting with 5/8" hose and 3/8" NPT is used in most outlet threaded ports of 200 series vacuum pumps and is a FAA PMA direct replacement for the Airborne.

P/N 10-00396..... ---

RA1K31-4-6-4

This 3/8" and 1/4" hose, 1/4" NPT, "T" fitting is used in most threaded ports of the flight instruments and is a FAA PMA direct replacement for the Airborne Model 1K31-4-6-4.

P/N 10-00397 ..... ---

RA1K10-4-6

This 3/8" hose, and 1/4" NPT fitting is used in most inlet threaded ports of the flight instruments and is a direct replacement for the Airborne Model 1K10-4-6.

P/N 10-00398..... ---

RA1K10-6-10

This fitting with 5/8" hose and 3/8" NPT is used in most inlet and outlet threaded ports of the 200 series vacuum pump. The fitting is 5/8" hose with 3/8" NPT threads. The Rapco, Inc. fitting is a FAA PMA direct replacement for the Airborne Model 1K10-6-10.

P/N 10-01849 ..... ---

RA1K1-4-6

This 90° fitting with 3/8 hose, 1/4" NPT is used in most threaded ports of the flight instruments and is a FAA PMA direct replacement for the airborne.

P/N 10-01130..... ---

RAPCO RA1H5-1 MANIFOLD CHECK VALVE

This valve is used in many Multi-Engine General Aviation applications. The Rapco, Inc. FAA PMA Multi-Engine manifold check valve is a direct replacement for the Airborne Model 1H5-1.

P/N 10-01131 ..... ---

TEMPEST RUDDER BOOST FILTER

The AA101-524009-0163 is approved on the Beechcraft B200, B200C, B200CT, B200T and B200GT. This filter is manufactured using a stainless steel housing and .3 micron media. Designed to withstand the toughest environments, the AA101-524009-0163 rudder boost filter continues the long line of dependable and pilot preferred Tempest pneumatic products .....P/N 08-17160 ..... ---

RAPCO VACUUM SYSTEM KIT

This Vacuum System Kit is ideal for use on experimental aircraft, allowing the kit builder to obtain all of the necessary components of their vacuum system in one convenient kit. The price of this kit reflects a substantial discount over the individual prices of the components if purchased separately.

This Kit Includes:

- 1 RAP215CC Vacuum Pump w/Gasket
- 1 RA2H3-12 Vac. Regulator w/Garter Filter
- 1 RAIJ7-1 Filter Assembly
- 1 RA1K1-6-10 90° 5/8" Fitting
- 1 RA1K8-6-10 152° 5/8" Fitting
- 2 RA1K31-4-6-4 3/8" and 1/4" T-Fitting
- 2 RA1K10-4-6 3/8" Fitting
- 1 - 5/8" x 3' Hose
- 1 - 3/8" x 5' Hose
- 1 - 1/4" x 6' Hose
- 10 - #8 Hose Clamps
- 4 - #4 Hose Clamps
- 1 Installation Diagram
- 1 Suction Gauge

Kit with RAP216CW Pump - For engines with **CLOCKWISE** turning accessory drives.....P/N 06-00635 ..... ---

RAPCO SHEAR SHAFT / COUPLER

Rapco Shear Shaft / Coupler.

P/N 08-13898 ..... ---

RAPCO SHEAR COUPLER KIT

Includes: Coupler, Spline, Gasket Kit. Rapco P/N RA-Shear Coupler Kit P/N 08-13890 ..... ---

RAPCO VACUUM MEASURE KIT

Includes: Caliper, Screw, Washer Kit. Rapco P/N RA-Vac Measure Kit.

P/N 08-13900 ..... ---

GARWIN / PESCO REMANUFACTURED WET PUMPS

Our supplier remanufactures run-out Pesco and Garwin wet pumps to factory specifications. FAA Approved.

Note: Pump Drive is included.

Pesco 194 pump .....P/N 10-00028 ..... ---
Pesco 207 pump .....P/N 10-00029 ..... ---
Garwin G455 pump .....P/N 10-00027 ..... ---
Garwin G450 pump .....P/N 10-00026 ..... ---

VACUUM RESTRICTOR VALVE

AN5829-2 manually adjustable needle valve complete with locking collar and mounting flange. For reducing vacuum to 2" Hg for operation of turn/bank. Manufactured by ACS Products Co.

P/N AN5829-2 ..... ---

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

VACUUM PUMPS

RAPCO DRY AIR PUMPS - VACUUM / PRESSURE

RAPCO FAA approved quality dry air pumps are available in brand new replacement models or overhauled. All are backed by warranty.
BRAND NEW RAPCO DRY AIR PUMPS are FAA-PMA approved and come with an inspection port to help determine replacement time. An exclusive internal shaft seal helps to keep out destructive oil and solvents. Mounting gasket included. Warranty period for 200 series is three year 1300 hours, 240 and 400 series is 1 year 500 hours, whichever comes first. No core charge on new pumps. Core rebate available.

Rapco New Dry Air Vacuum Pumps			
Description	**Rapco Part Number**	**Our Part Number**	**Price**
RAP215CC	RAP215CC	10-23925	---
RAP215CC-9	RAP215CC-9	10-03401	---
RAP216CW	RAP216CW	10-23935	---
RAP241CC	RAP241CC	10-23950-1	---
RAP241CC-13	RAP241CC-13	10-03447	---
RAP241CC-15	RAP241CC-15	10-03448	---
RAP242CW	RAP242CW	10-23960-1	---
RAP242CW-4	RAP242CW-4	10-03449	---
RAP242CW-10	RAP242CW-10	10-03450	---
RAP441CC	RAP441CC	10-01126	---
RAP441CC-3	RAP441CC-3	10-03074	---
RAP441CC-7	RAP441CC-7	10-03075	---
RAP441CC-9	RAP441CC-9	10-03076	---
RAP441CC-17	RAP441CC-17	10-03077	---
RAP441CC-23	RAP441CC-23	10-03078	---
RAP442CW	RAP442CW	10-01127	---
RAP442CW-4	RAP442CW-4	10-03079	---
RAP442CW-6	RAP442CW-6	10-03080	---
RAP442CW-8	RAP442CW-8	10-03081	---
RAP442CW-12	RAP442CW-12	10-01128	---
RAP442CW-14	RAP442CW-14	10-03082	---
RAP442CW-20	RAP442CW-20	10-03083	---

SIGMA-TEK DRY AIR PUMP

The Sigma-Tek 1U128-006 is a pump which carries a warranty for 2-years or 1000 hours. It uses an aluminum rotor and rotor housing, making the pump very resistant to damage from ingestion of foreign objects, excessive loads or engine oil. It provides clean, dry air for operation of air driven instruments in aircraft operating at medium altitudes. Pump rotates clockwise or counterclockwise in vacuum or pressure mode. May be mounted in either a vertical or horizontal position. FAA approved as a direct replacement for all instrument pumps but is not intended for supplying air to deicing boots. Mounting gasket furnished. Install suction regulator in line to instruments. Delivers 6 In. Hg vacuum (2.9-8.5 minimum CEM) or 6 In. Hg pressure (3.7-8.5 minimum CEM) from 1500 to 4000 RPM. No core charge.
Specifications: • Height: 3.825" ± .03" • Width: 3.55" ± .03" • Depth: 3.91" ± .06" • Weight: 2.2 lbs. (max)
Environmental: • Ambient Temperature: -40° C to 93° C (typ.) • Exhaust Temp. (Intermittent): 375° F for 5 mins. (max) • Exhaust Temp. (Continuous): 300° F • Vibration:CPS: 5 to 150 • Maximum Double Amplitude: 0.100 in. • Maximum Acceleration: 10 G's • Humidity (Dewpoint): -70° C • Altitude: -1,000 to 30,000 ft.

P/N 10-02778 ..... ---

OVERHAULED DRY AIR PUMPS by RAPCO are FAA approved and shipped with FAA form 8130-3. Mounting gasket included. Warranty period for 200 series is two years 1000 hours, 240 and 400 series is one year 400 hours, whichever comes first.
Mounting flange gasket is included.

Rapco Overhauled Dry Air Vacuum Pumps			
Description	**Rapco Part No.**	**Our Part No.**	**Price**
211CC	211CC	10-23930	---
211CC-9	211CC-9	10-23931	---
212CW	212CW	10-23940	---
212CW-6	212CW-6	10-07750	---
241CC	241CC	10-23950	---
241CC-13	241CC-13	10-03086	---
241CC-15	241CC-15	10-03087	---
242CW-4	242CW-4	10-03088	---
242CW-10	242CW-10	10-03089	---
441CC	441CC	10-02349	---
441CC-3	441CC-3	10-03090	---
441CC-9	441CC-9	10-03092	---
441CC-23	441CC-23	10-03096	---
442CW-20	442CW-20	10-03105	---

TEMPEST VACUUM FILTERS

FAA-PMA Approved

AAD9-14-3 ..... P/N 10-00923 ..... ---
AAD9-14-5 ..... P/N 10-00924 ..... ---
AAD9-18-1 ..... P/N 10-01354 ..... ---

TEMPEST VACUUM PUMP WRENCH

Case hardened steel, with nickel-chrome plating for corrosion resistance. Slip resistant vinyl grip. Rare earth magnet allows efficient and easy installation of hard-to-get-to install nuts. Eligibility: Fits all 200, 240, 400 and 3200 series vacuum pumps ..... P/N 10-02654 ..... ---

RAPCO VACUUM PUMP REMOVAL & INSTALLATION TOOL

The RA716 Pump Wrench provides superior access to the vacuum pump flange nuts. This new tool is made from quality hardened steel with corrosion resistant nickel plating. The shank is shaped to provide easy access to tight areas between the pump and accessories. The open end head is laser cut providing a close tolerance fit on the nut. Plastic coating on the handle provides a firm grip.

P/N 10-13911 ..... ---

IN

RAPCO VACUUM REGULATORS

RAPCO RA2H3-2 VACUUM REGULATOR

This FAA Approved Rapco vacuum regulator is designed to maintain a constant setting at various pressure altitudes. Adjustable setting. Vacuum regulators come with the RAB3-5-1 garter filter. 5/8" Hose Fitting (Pump), 1/2" Hose Fitting (instruments). Replaces - Airborne P/N. 2H3-2, 133A3, Aero Accessories P/N. 2H3-2

P/N 10-03895 ..... ---

RAPCO RA2H3-5 VACUUM REGULATOR

This FAA Approved Rapco vacuum regulator is designed to maintain a constant setting at various pressure altitudes. Adjustable setting. Vacuum regulators come with the RAB3-5-1 garter filter. 5/8" Hose Fitting (Pump), 5/8" Hose Fitting (instruments). Replaces - Airborne P/N. 2H3-5, 133C1, Aero Accessories P/N. 2H3-5

P/N 10-03894 ..... ---

RAPCO RA2H3-6 VACUUM REGULATOR

This FAA Approved Rapco vacuum regulator is designed to maintain a constant setting at various pressure altitudes. Adjustable setting. Vacuum regulators come with the RAB3-5-1 garter filter. 5/8" Hose Fitting (Pump), 5/8" Hose Fitting (instruments). Replaces - Airborne P/N. 2H3-6, 133B3, Aero Accessories P/N. 2H3-6, Piper P/N. 584-324.....P/N 10-03918 ..... ---

RAPCO RA2H3-11 VACUUM REGULATOR

This FAA Approved Rapco vacuum regulator is designed to maintain a constant setting at various pressure altitudes. Adjustable setting. Vacuum regulators come with the RAB3-5-1 garter filter. AN-10A Flared Tube Fitting (Pump), AN-10A Flared Tube Fitting (instruments) Replaces - Airborne P/N. 2H3-11, 133A13 .....P/N 10-03919 ..... ---

RAPCO RA2H3-12 VACUUM REGULATOR

This FAA Approved Rapco vacuum regulator is designed to maintain a constant setting at various pressure altitudes. Adjustable setting. Vacuum regulators come with the RAB3-5-1 garter filter. 5/8" Hose Fitting (Pump), Two 3/8" Hose Fitting (instruments). Replaces - Airborne P/N. 2H3-12, 2H3-16, 133A16, Cessna P/N. C482001-0401 .....P/N 10-00289 ..... ---

RAPCO RA2H3-15 VACUUM REGULATOR

This FAA Approved Rapco vacuum regulator is designed to maintain a constant setting at various pressure altitudes. Adjustable setting. Vacuum regulators come with the RAB3-5-1 garter filter. One AN-10A Pump fitting. . Replaces - Airborne P/N. 2H3-15.

P/N 10-04842 ..... ---

RAPCO RA2H3-19 VACUUM REGULATOR

This FAA Approved Rapco vacuum regulator is designed to maintain a constant setting at various pressure altitudes. Adjustable setting. Vacuum regulators come with the RAB3-5-1 garter filter. 5/8" Hose Fitting (Pump),Two 3/8" Hose Fittings (Instrument) Replaces – Airborne P/N.2H3-19, Piper P/N. 492-240...P/N 10-04780 ..... ---

RAPCO RA2H3-23 VACUUM REGULATOR

This FAA Approved Rapco vacuum regulator is designed to maintain a constant setting at various pressure altitudes. Adjustable setting. Vacuum regulators come with the RAB3-5-1 garter filter. 5/8" Hose Fitting (Pump), Two 3/8" Hose Fitting (instruments). Replaces - Airborne P/N. 2H3-23, 133A4, Piper P/N. 492-272

P/N 10-03009 ..... ---

RAPCO RA2H3-48 VACUUM REGULATOR

This FAA Approved Rapco vacuum regulator is designed to maintain a constant setting at various pressure altitudes. Adjustable setting. Vacuum regulators come with the RAB3-5-1 garter filter. 5/8" Hose Fitting (pump), AN-10A Flared Tube (instrument). Replaces - Airborne P/N. 2H3-48, Aero Accessories P/N. AA2H3-48

P/N 10-03921 ..... ---

TEMPEST VACUUM REGULATORS

FAA/PMA Approved

AA 2H3-2 .....P/N 10-03458 ..... ---
AA 2H3-6 .....P/N 10-03460 ..... ---
AA 2H3-12 .....P/N 10-03461 ..... ---
AA 2H3-23 .....P/N 10-03462 ..... ---

AIRBORNE CENTRAL AIR FILTERS

Increase gyro life with Airborne gyro air filter. Incorporates a 0.3 micron filter element that protects gyro instruments by filtering out tobacco smoke and cabin dust. Small, lightweight, easily installed. Fits most planes. Dual 3/8" beaded tubes simplify 2-gyro installations.

Part No.	Description	Price
1J7-1	Vacuum Instrument Central Gyro Air Filter: 0.3 micron pleated paper element with two 3/8" installation tubes.	---
B3-5-1	ARB3-5-1 Tempest Garter Filter	---
10-01353	Gyro Air Filter D9-14-5	---

RAPCO REPLACEMENT PNEUMATIC FILTERS

Part No.	Description	Recommended Replacement	OEM Number	RAPCO Number	Price
10-23810	Line Mounted Filter, 1/2"x1/2" Tube	1 yr / 500 Hrs	2J4-4	RA2J4-4	---
10-23820	Line Mounted Filter, 5/8"x5/8" Tube	1 yr / 500 Hrs	2J4-6	RA2J4-6	---
10-23830	Line Mounted Filter, 5/8"x5/8" Tube Overall length 5-1/2"	1 yr / 500 Hrs	2J4-7	RA2J4-7	---
10-23840	Vacuum Central Gyro Air Filter Assy.	1 yr / 500 Hrs	1J7-1	RA1J7-1	---
10-00287	Line Mounted Filter 3/8" x 3/8"	1 yr / 500 Hrs	1J10-1	RA1J10-1	---
05-15253	Rudder Boost Filter. Two 5/8" hose fittings, overall length 5-1/2" x 3-1/4" dia.	--	101-524009-0163, 101-524009-0161, 101-524009-91	RA101-524009-0163	---
10-23850	Vacuum Pump Inlet Garter Filter	1 yr / 100 Hrs	B3-5-1	RA-B3-5-1	---
10-23860	Replacement Element, 1J2-2 filter	1 yr / 100 Hrs	D9-14-3	RA-D9-14-3	---
10-23870	Rep. Element for 1J2 series (except 1J2-2)	1 yr / 100 Hrs	D9-14-5	RA-D-9-14-5	---
10-23880	Replacement Element, 1J7-1 Filter	1 yr / 500 Hrs	D9-18-1	RA-D9-18-1	---

UMA 1" GYRO SUCTION GAUGES

Case: Molded ABS Plastic. Weight: 1.4 oz.

Part No.	Range	Dial Markings	Price
10-02361	3-7 IN.HG	B & W	---
10-00311	3-7 IN.HG	GA 4.5-5.4	---
10-02464	3-7 IN.HG	GA 3.5-5.0, RR 3.5 & 5.0	---

UMA 1-1/4" GYRO SUCTION GAUGES

Case: Molded ABS Plastic. Weight: 1.4 oz.

Part No.	Range	Dial Markings	Price
10-01010	3-7 IN. HG.	GA 4.5-5.2, RR 4.5 & 5.2	---
10-02465	3-7 IN. HG.	GA 4.75-5.25, RR 4.75 & 5.25	---
10-02466	3-7 IN. HG.	GA 4.5-5.0	---
10-02467	2-6 IN. HG.	GA 3.8-4.4, RR 3.8 & 4.4	---
10-02358	3-7 IN. HG.	B & W	---
10-02468	2-6 IN. HG.	GA 4.0-5.0	---
10-02469	2-6 IN. HG.	GA 4.5-5.4, YA 2.0-4.5, RR 6.0	---
10-02470	2-6 IN. HG.	GA 3.5-5.0, RR3.5	---
10-02471	0-10 IN. HG.	B & W	---

UMA 2-1/4" UMA GYRO SUCTION

Case: Cast Aluminum. Weight: 4.7 oz.

Part No.	Range	Dial Markings	Price
10-00090	2-8 IN. HG.	GA 4.6-5.4	---
10-01000	0-10 IN. HG.	B & W	---
10-02359	0-10 IN. HG.	GA 4-5, RR 5	---
10-02360	0-10 IN. HG.	GA 4.2-4.4, RR 4.2 & 5.3	---

UMA 1-1/4" PNEUMATIC PRESSURE

Case: Molded ABS Plastic. Weight: 1.4 oz.

Part No.	Range	Dial Markings	Price
10-02364	0-25 PSI	GA 5.0-10, YA 10-21	---
10-02365	0-25 PSI	GA 15-21, YA 21-25, RR 14.9	---
10-12305	0-25 PSI	GA 15-21, RR 24	---
10-02366	0-25 PSI	GA 2.5-7.5, YA 7.5-21	---

1-1/4 INCH GYRO PRESSURE GAUGE

These units are designed to save space in cockpit panels. These gauges utilize an internal diaphragm for accuracy and reliability. Miniature 1-1/4" instrument. Case: Molded ABS Plastic. Weight: 1.4 oz.

Part No.	Range	Dial Markings	Price
10-01105	3-7 IN. HG.	GA 4.25-6.25	---
10-02462	3-7 IN. HG.	GA 4.25-5.2, RR 4.25 & 5.2	---
10-02463	3-7 IN. HG.	GA 4.5-5.2, YA 3.8-4.5, RR 3.8 & 5.2	---

UMA 2-1/4" GYRO PRESSURE GAUGES

These units are designed to save space in cockpit panels. These gauges utilize an internal diaphragm for accuracy and reliability. Case: Cast Aluminum. Weight: 4.7 oz.

Part No.	Range	Dial Markings	Price
10-02362	2-8 IN. HG.	B & W	---
10-02363	2-8 IN. HG.	GA 4.5-5.5	---

UMA 2-1/4" CABIN ALTITUDE DIFFERENTIAL PRESSURE GAUGE

Case: Valox 420 Plastic Weight: 7.4 oz.

Part No.	Range	Dial Markings	Price
10-02370	0-25,000 Ft. 0-6 PSI	B & W	---
10-02371	0-30,000 Ft. 0-6 PSI	GA 0-10, YA 10-28	---
10-02460	0-30,000 Ft. 0-6 PSI	GA 0-10, YA 10-28	---
10-02461	0-35,000 Ft. 0-8 PSI	B & W	---

AIRSPEED INDICATORS

UMA AIRSPEED INDICATORS (NON-TSO'D)

These quality UMA, non-TSO'd airspeed indicators are available in MPH, Knots or Dual Scales. Note: An inverter is required for the Internal Lighting Option (P/N 10-02083 UMA 14V LIGHT INVERTER)

Description	Dial	Part No.	Price
3-1/8"	20-80 mph	10-04905	---
3-1/8"	20-100 mph	10-04910	---
3-1/8"	20-120 mph	10-04915	---
3-1/8"	20-140 mph	10-04920	---
3-1/8"	20-160 mph	10-04925	---
3-1/8"	40-180 mph	10-04930	---
3-1/8"	40-200 mph	10-01029	---
3-1/8"	40-240 mph	10-00512	---
3-1/8"	40-260 mph	10-01030	---
3-1/8"	40-280 mph	10-01031	---
3-1/8"	40-300 mph	10-01032	---
3-1/8"	20-80 Knots	10-01033	---
3-1/8"	20-100 Knots	10-01034	---
3-1/8"	20-120 Knots	10-04950	---
3-1/8"	20-140 Knots	10-04955	---
3-1/8"	20-160 Knots	10-01035	---
3-1/8"	40-180 Knots	10-04965	---
3-1/8"	40-200 Knots	10-04970	---
3-1/8"	40-240 Knots	10-00514	---
3-1/8"	40-260 Knots	10-01036	---
3-1/8"	40-280 Knots	10-01037	---
3-1/8"	40-300 mph	10-01038	---
3-1/8" Dual	20-140 mph/20-120 Knots	10-00511	---
3-1/8" Dual	40-160 mph/20-135 Knots	10-02200	---
3-1/8" Dual	40-180 mph/20-150 Knots	10-02300	---
3-1/8" Dual	40-200 mph/40-170 Knots	10-02400	---
3-1/8" Dual	40-240 mph/40-205 Knots	10-02600	---
3-1/8" Dual	40-260 mph/40-225 Knots	10-01039	---
3-1/8" Dual	40-300 mph/40-250 Knots	10-01040	---
3-1/8" Dual	40-350 mph/40-300 Knots	10-01041	---
3-1/8" Dual	40-260 Knots/50-300 mph	10-01042	---
3-1/8" Dual	40-300 Knots/40-340 mph	10-01043	---
Range Markings	UMA Range Markings on NON-TSO Units	10-02792	---

UMA 3-1/8" AIRSPEED INDICATORS (TSO'd)

These quality UMA airspeed indicators are available in MPH, Knots or Dual Scales.

3-1/8" TSO'd Single Scale	Part No.	Price	3-1/8" not TSO'd Single Scale	Part No.	Price
40-160 MPH	10-03250	---	40-160 Knots	10-03257	---
40-180 MPH	10-03251	---	40-180 Knots	10-03258	---
40-200 MPH	10-03252	---	40-200 Knots	10-03259	---
40-240 MPH	10-03253	---	40-240 Knots	10-03260	---
40-260 MPH	10-03254	---	40-260 Knots	10-03261	---
40-280 MPH	10-03255	---	40-280 Knots	10-03262	---
40-300 MPH	10-03256	---	40-300 Knots	10-03263	---

3-1/8" TSO'd Dual Scale	Part No.	Price	3-1/8" not TSO'd Dual Scale	Part No.	Price
40-160 MPH/ 40-135 Knots	10-03270	---	40-240 MPH/ 40-205 Knots	10-03276	---
40-180 MPH/ 40-150 Knots	10-03271	---	50-270 MPH/ 40-240 Knots	10-03277	---
40-200 MPH/ 40-170 Knots	10-03272	---	50-300 MPH/ 40-260 Knots	10-03278	---
40-240 MPH/ 40-205 Knots	10-03273	---	Outside/Inside Scale: 300 Knots	10-03279	---
40-260 MPH/ 40-225 Knots	10-03274	---	40-300 MPH/ 40-250 Knots	10-03275	---

UNITED AIRSPEED INDICATORS (TSO'D)

These 8000 series United airspeeds are TSO'd for installation on certificated aircraft. Factory new. Available in dual scale MPH/ knots, or in MPH or knots only. Fits standard 3-1/8" panel hole. Wt: 0.7 lb.

Part No.	Range	Lighted	Price
10-00190	40-200 mph/40-170 knots	No	---
10-00190-1	40-200 mph/40-170 knots	Yes	---
10-00191	40-250 mph/40-200 knots	No	---
10-00191-1	40-250 mph/40-200 knots	Yes	---
10-00192	40-300 mph/40-260 knots	No	---
10-00192-1	40-300 mph/40-260 knots	Yes	---
10-00198	0-170 knots	No	---
10-00198-1	0-170 knots	Yes	---
10-00201	0-260 knots	No	---
10-00201-1	40-260 knots	Yes	---

Available with custom range marks .....P/N 10-02614 ..... ---

UNITED TRUE AIRSPEED INDICATORS

The true airspeed indicator corrects the indicated airspeed for changes in temperature and pressure encountered as aircraft changes altitude. By aligning outside temperature and pressure altitude with setting knob, movable airspeed scale is rotated proper amount so pointer registers true airspeed. Factory new 8100 series by United. TSO'D for certificated aircraft. Dual scale. Not Lighted. **Add --- for custom range marks & specify exact range marks needed.**

Series	Range	Part No.	Price
8100	40-200 mph/40-160 knots	10-00203	---
8125	55-250 mph/55-215 knots	10-00204	---
8100	40-170 knots	10-00216	---
8125	40-210 knots	10-00217	---
8130	55-260 knots	10-00218	---
8140	60-350 Knots	10-00219	---

LIGHTED UNITED AIRSPEEDS

Add -1 to P/N's above for internally lighted airspeed indicators.

UMA 2-1/4" MINIATURE AIRSPEEDS

A fine quality instrument of new manufacture for the exceptional homebuilt aircraft. Matte-white dial markings. Fits standard 2-1/4" instrument panel opening. Space saving dims: 2-3/8"x2-3/8"x3.25"L. All ranges available in knots.

Range	Part No.	Part No.
20-100 MPH	10-03992	---
20-120 MPH	10-03993	---
20-140 MPH	10-03994	---
0-120 Knot	10-03995	---
40-180 Knot	10-00508	---
40-160 MPH	10-03996	---
40-180 MPH	10-03997	---
40-200 MPH	10-03998	---
40-140 Knot	10-00507	---
40-200 Knot	10-00509	---
40-240 MPH	10-04000	---
40-260 MPH	10-04001	---
40-300 MPH	10-04002	---
40-160 Knot	10-01787	---
40-240 Knot	10-00510	---

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FALCON 3 1/8" SINGLE RANGE AIRSPEEDS

These Airspeed Indicators have been one of the most chose flight instruments by kit plane builders and pilots. There are many great advantages to using these gauges: excellent slow speed characteristics; very progressive increments; a variety of ranges, light weight; short length, and affordable price. All Airspeed Indicators are housed in an aluminum case and consist of all metal parts. Available ranges: mph, knots, km/hr; single range reading or dual range readings. Non-Tso'd.

Model No.	Length	Range	Part No.	Price
ASI200M-3	3.5"/97.3mm	30-200 MPH	10-02918	---
ASI180M-3	3.5"/97.3mm	30-180 MPH	10-03000	---
ASI080M-3	2.2"/56.5mm	0-80 MPH	10-02905	---
ASI100M-3	2.2"/56.5mm	0-100 MPH	10-02910	---
ASI120M-3	2.2"/56.5mm	0-120 MPH	10-02915	---
ASI140M-3	3.5"/97.3mm	0-140 MPH	10-02916	---
ASI150M-3	2.2"/56.5mm	0-150 MPH	10-02225	---
ASI160M-3	3.5"/97.3mm	0-160 MPH	10-02917	---
ASI080N-3	3.5"/97.3mm	0-80 Knots	10-02896	---
ASI100N-3	2.2"/56.5mm	0-100 Knots	10-02897	---
ASI120N-3	2.2"/56.5mm	0-120 Knots	10-02898	---
ASI140N-3	3.5"/97.3mm	0-140 Knots	10-02899	---
ASI160N-3	3.5"/97.3mm	0-160 Knots	10-02900	---
ASI180N-3	3.5"/97.3mm	0-180 Knots	10-02217	---
ASI200N-3	3.5"/97.3mm	0-200 Knots	10-02218	---
ASI220N-3	3.5"/97.3mm	0-220 Knots	10-02219	---
ASI120K-3	2.2"/56.5mm	0-120 KPH	10-02625	---
ASI150K-3	2.2"/56.5mm	0-150 KPH	10-02221	---
ASI200K-3	2.2"/56.5mm	0-200 KPH	10-02222	---
ASI300K-3	2.2"/56.5mm	0-300 KPH	10-02223	---

FALCON 3 1/8" DUAL RANGE AIRSPEEDS

These Airspeed Indicators have been one of the most chose flight instruments by kit plane builders and pilots. There are many great advantages to using these gauges: excellent slow speed characteristics; very progressive increments; a variety of ranges, light weight; short length, and affordable price. All Indicators are housed in an aluminum case and consist of all metal parts.

Falcon Gauge Dual Dial Airspeed Indicators provide dual readings and are suitable for higher performance type aircraft flying at moderate to high speeds. Matte-white dial markings, housed in a sturdy protective aluminum case. Weight: approx. 10.5 oz./301g. Length: 3.5" or 97.3mm Size: 3-1/8"

Model No.	Range	Part No.	Price
ASI164MN-3	20-160 MPH/20-140 Knots	10-02227	---
ASI186MN-3	30-180 MPH/30-160 Knots	10-02228	---
ASI208MN-3	30-200 MPH/30-180 Knots	10-02901	---
ASI252MN-3	30-250 MPH/30-220 Knots	10-02229	---
ASI306MN-3	40-300 MPH/40-260 Knots	10-02230	---
ASI316KN-3	30-300 KPH/30-160 Knots	10-02231	---

SIGMA-TEK RESTRAINED AIRSPEEDS

These airspeed indicators have restrained movements.These instruments are actuated by ram air and ambient atmospheric pressure obtained from the aircraft pitot and static pressure systems. A moveable pointer and a fixed dial indicate airspeed with the zero index at the 12 o'clock position. Temperature compensation is internal and there is no external zero adjustment. Pointer damping is internally adjustable. **Note: Lighted Instruments do not include lamp trays, see website for accessories.**

Model No.	Lighted	MPH	Knots	Part No.	Price
EA5174-( )L	X	40-200	40-170	10-05158	---
EA5175-( )		40-250	40-200	10-05159	---
EA5175-( )L	X	40-250	40-200	10-05160	---
EA5176-( )		40-300	40-260	10-05162	---
EA5176-( )L	X	40-300	40-260	10-05163	---

Dual Scale (MPH/Knots) with multicolor markings

UMA 2-1/4 TSO'D AIRSPEED INDICATORS

UMA indicators are FAA TSO'd to C2d specifications. Installable in a fixed wing aircraft with a reciprocating or Turboprop Engine. Must be installed in a temperature controlled environment from -55 to +85 °C, to a max altitude of 25,000 ft. UMA offers indicators with full scale ranges available, from 160 to 300 in MPH or Knots.

UMA Part No .	Range	Part No.	Price
T16-210-121	20-120 MPH	10-03577	---
T16-211-121	20-120 Knots	10-03578	---
T16-210-141	20-140 MPH	10-03579	---
T16-211-141	20-140 Knots	10-03580	---
T16-210-142	30-140 MPH	10-03582	---
T16-211-142	30-140 Knots	10-03583	---
T16-210-160	40-160 MPH	10-03584	---
T16-211-160	40-160 Knots	10-03585	---
T16-210-161	20-160 MPH	10-03586	---
T16-211-161	20-160 Knots	10-03587	---
T16-210-180	40-180 MPH	10-03588	---
T16-211-180	40-180 Knots	10-03589	---
T16-210-200	40-200 MPH	10-03590	---
T16-211-200	40-200 Knots	10-03591	---
T16-210-240	40-240 MPH	10-03592	---
T16-211-240	40-240 Knots	10-03593	---
T16-210-260	40-260 MPH	10-03594	---
T16-211-260	40-260 Knots	10-03595	---
T16-210-300	40-300 MPH	10-03596	---
T16-211-300	40-300 Knots	10-03597	---
T16-210-400	40-400 MPH	10-03598	---
T16-211-400	40-400 Knots	10-03599	---
T16-212-240	40-240 KmH	10-03602	---
T16-212-260	40-260 KmH	10-03603	---
T16-212-280	40-280 KmH	10-03604	---
T16-212-300	40-300 KmH	10-03605	---
T16-212-320	40-320 KmH	10-03606	---
T16-212-380	40-380 KmH	10-03607	---
T16-212-400	40-400 KmH	10-03608	---
T16-212-440	40-440 KmH	10-03609	---

SIGMA-TEK AIRSPEEDS (TSO'D)

Sigma-Teks precision airspeeds are original equipment on a variety of aircraft and over 144,000 have been delivered worldwide. Select from a single MPH scale or dual scale showing MPH / Knots. New manufacture. TSOD for certificated aircraft unlit. Add $95 for custom range markings. (Specify exactly)

Model	Lighted	MPH	Part No.	Price
Dual Scale Airspeed	No	40-250	10-03210	---
Dual Scale Airspeed	No	40-300	10-03215	---
Standard, Lit Airspeed	Yes	40-200	10-05153	---
Standard, Lit Airspeed	Yes	40-250	10-05154	---
Standard Airspeed with decal and calibration card	No	40-250	10-05155	---
Standard, Lit Airspeed	Yes	40-300	10-05156	---

SIGMATEK 3-1/8" TRUE AIRSPEEDS

These true speed indicators are differential pressure indicators that measure the difference between static and total pressure produced by ram air from the pitot. The indicated airspeed can be corrected for changes in altitude by turning the knob to align the outside air temperature with the altitude. The moveable airspeed scale will then show the actual, or true, airspeed. Model No.: EA5175-( )PTL. Lighted. MPH: 40-250. Knots: 40-200. **Note**: Lighted Instruments do not include lamp trays, see accessories.....P/N 10-05161 ..... ---

Sigmatek Accessories

14V Lamp Tray.....P/N 10-02757 ..... ---
28V Lamp Tray.....P/N 10-02758 ..... ---
Sigmatek Airspeed Range Markings.....P/N 10-04961 ..... ---

IN

WINTER 2-1/4 INCH AIRSPEED INDICATORS

This precision instrument is enclosed in a compact housing and operates by means of a measuring tube. This ensures high accuracy even at very low speeds. EBF-series airspeed indicators are available with a pitot tube and static pressure connection.

Description	Part No.	Price
Winter 2-1/4 ASI 8020 EBF Various Range 360 Degree Dial	10-05625	---
Winter 2-1/4 ASI 8022 EBF Various Range 360 Degree Dial	10-05627	---
Winter 2-1/4 ASI 8026 EBF Various Range 510 Degree Dial	10-05629	---
Winter 2-1/4" ASI 7 FMS 213 Range 0 To 100 Knot 360 Dial	10-05908	---

WINTER 3 INCH AIRSPEED INDICATORS

This precision instrument is enclosed in a compact housing and operates by means of a measuring tube. This ensures high accuracy even at very low speeds. EBF-series airspeed indicators are available with a pitot tube and static pressure connection.
Diameter: 3". Depth: 3"

Description	Part No.	Price
Winter 3" ASI 8021 EBF Various Range 360 Degree Dial	10-05626	---
Winter 3" ASI 8023 EBF Various Range 360 Degree Dial	10-05628	---
Winter 3" ASI 6 FMS 403 Range 0 to 100 Knots 510 Dial	10-05906	---
Winter 3" ASI 6 FMS 213 Range 0 to 100 Knots 360 Dial	10-05907	---

IN

MID-CONTINENT INSTRUMENTS AND AVIONICS AIRSPEED INDICATORS

Customizable range markings can be added to match aircraft operating handbook. Affordable, certified 2-inch instrument which can be used as standby or primary indicator. Combine with a Mid-Continent MD15 Altimeter and 4200 Attitude Indicator for a complete standby package designed for tight panel applications. Approved to FAA TSO-C2d. Integral long life 5, 14 or 28 volt LED lighting. Anti-reflective glass enhances visibility and reduces pilot fatigue. Rear-mounted in standard 2 1/4" cutouts horizontally, vertically or individually. Designed and built in the USA. One year limited warranty.

Model	Description	Part No.	Price
MD25-260	2-Inch 40-260 knots, Lighted	10-04764	---

FALCON MINIATURE AIRSPEED INDICATORS WITH PITOT KIT

This package includes a ASI080M-2 airspeed indicator, as well as a pitot kit consisting of 1/4" aluminum tubing, vinyl tube, Polyethylene Hose Adapter, and Breeze Clamp.

Falcon Miniature airspeed indicators are designed for ultralights. They offer ultralight pilots an affordable alternative to other higher priced airspeed indicators. They have excellent slow speed features which make them perfect for ultralight flying.

Size	Range	Part No.	Price
3-1/8"	0-80 MPH	AS020	---
3-1/8"	0-100 MPH	AS021	---
3-1/8"	0-120 MPH	AS022	---

WINTER 3-INCH ALTIMETERS

Standard Precision Altimeters 4 FGH 10.
Airtight, black plastic housing. Connection via hose from static pressure sensor to hose connector on rear. Kollsman window with millibar scale, reading from 940 to 1050 millibars. See scale drawing for installation dimensions.
Weight 0.330 kg. Linear scale
The 4 FGH 10 altimeter can be fitted with a scale ring.

Description	Part No.	Price
Winter 3 Altimeter 4 FGH 10 1000-20000 FT MB	10-05621	---
Winter 3 Altimeter 4 FGH 10 1000-20000 FT INHG	10-05622	---

WINTER 2-1/4 INCH ALTIMETERS

The pressure-sensitive measuring element is a diaphragm capsule (aneroid capsule) which reacts to the effect of changing air pressure as the aircraft changes altitude. Tempered, aged copper-beryllium diaphragms ensure highly accurate readings. Diaphragm movement is transmitted to the instrument pointers by a linkage and gearwheels - the whole is insensitive to shock and vibration. A bimetal link compensates the effect of temperature change.

Description	Part No.	Price
Winter 2-1/4 Altimeter EBH 8032 0-5000 FT MB	10-24105	---
Winter 2-1/4 Altimeter EBH 8034 0-5000 FT INHG	10-05632	---
Winter 2-1/4 Altimeter EBH 8035 0-10000 FT INHG	10-05634	---

TASKEM 5000 DIGITAL ALTIMETER

Unlike mechanical altimeters, the Taskem 5000 is insensitive to the high vibration of 2-stroke engines frequently used on ultralight aircraft. This has literally shaken many mechanical altimeters. The 5000 is all solid state and can withstand severe shock and vibration without damage. It has a full 4.5 digit liquid crystal (LCD) display with large, 1/2" high characters. Because the LCD uses direct drive, it is easily readable from most viewing angles and does not disappear when viewed from an angle or does not washout in bright sunlight. Includes a backlight for night or dusk viewing. The altitude range extends from below sea level to well above the need for supplementary oxygen. The limits are -1000 to 19,990 ft. (-305 to 6,093 meters). Increments are in 10 ft./1m steps. The instrument is powered from DC in the range of 7–30V and is protected for accidental polarity reversal. A 9V battery is a common power source and a battery holder for this is provided on the back, external to the case. An alkaline battery will provide over 40 hours of operation, without the backlight illuminated. The backlight is not powered in the ON power switch position to conserve battery life.

Feet ..... P/N 10-24010 ..... ---
Meters ..... P/N 10-24020 ..... ---

HALL WINDMETER

Designed for hang gliders but can be mounted on low speed aircraft as an airspeed indicator. Easy to read. Mounting bracket clamps to 7/8 or 1 1/8" dia. tube. Short bracket is 3' long, Long bracket 15" long.

Windmeter (0-55 mph) . P/N 10-04100 ..... ---
Windmeter (0-80 mph) . P/N 10-04105 ..... ---
Windmeter (0-130 kph) . P/N 15-04602 ..... ---
Short Bracket ..... P/N 10-04200 ..... ---
Long Bracket ..... P/N 10-04300 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

UNITED SENSITIVE ALTIMETERS

Designed to help the pilot determine altitude by measuring existing atmospheric pressure, this altimeter translates this measurement into "height-above-sea-level." This is indicated on the dial of the instrument in feet, which requires setting the barometric pressure in the Kollsman window. Standard 3-1/8" size.

Specifications: • Typical Weight: 13 oz • Number of Pointers: 3 • Barometric Setting: 28.1 to 31.0 in HG / 946 to 1050 mb • Calibrated Ranges: -1,000 to +20,000 or +35,000 feet • Static Pressure Connection: 1/8-27 ANPT • Installation: Removable Spring Nuts and screws

Range	Scale	Manufacturer	Part No.	Price Ea.
0-20000 ft.	Inches	United (TSO)	10-04550	---
0-35000 ft.	Inches	United (TSO)	10-04570	---
0-20000 ft.	Millibar	United (TSO)	10-04560	---
0-20000 ft.	Inches	United (Lighted)	10-00929	---
0-35000 ft.	Inches	United (Lighted)	10-00930	---
0-20000 ft.	Millibar	United (Lighted)	10-00931	---
0-20000 ft.	In/Mil	United (Lighted)	10-00932	---
0-20000 ft.	In/Mil	United (Unlighted)	10-00933	---
0-35000 ft.	In/Mil	United (Unlighted)	10-02696	---
0-35000 ft.	In/Mil	United (Lighted)	10-02697	---
0-35000 ft.	Millibar	United (Lighted)	10-02698	---
0-35000 ft.	Millibar	United (Unlighted)	10-02699	---

UNITED ALTIMETER WITH CORRECTED BAROMETRIC OUTPUT

True airspeed all the time! No need to correct the barometer, the altimeter does it automatically for the pilot. • Compatible with most Air Data Systems • 35,000 ft., dual barometric scale • Internally lighted – light tray included • TSO C10d certified • Standard D.C. voltage barometric output • Mounts in standard 3 1/8" panel cutout • Requires just 5" depth behind the panel • 1/8" NPT static port • Connector included • Manufactured by United Instruments.

P/N 10-02718 ..... ---

FALCON 3 1/8" SENSITIVE ALTIMETERS

1. Three Pointer Altimeter with Barometric Window and Low Altitude Warning Stripes is a modern type. The easy to read striped sector will show while flying below 16,000 ft. 2. Three Pointer Altimeter with a Barometric Window enables the pilot to adjust the altimeter to the barometric conditions existing at the point of landing. 3. Two Pointer Altimeter without Barometric Window. This type of altimeter is designed to meet the demands of some pilots who either live or fly the area's barometric pressure beyond 28.1 to 31 inches of mercury, or 950 to 1050 millibars, or some pilots prefer to set the altimeter to"0" altitude before taking off without regard to the barometric pressure. By installing this altimeter, the pilot can fly anywhere in the world without having to care about the barometric pressure changes. Non-TSO'd.

Model No.	Part No.	Range	Baro-metric Window	Warning Stripes	Pointers	Price
ALT100F	10-02259	10,000 ft	No	No	2	---
ALT20INF-3	10-05327	20,000 ft, inches	Yes	Yes	3	---
ALT20MBF-3	10-04500	20,000 ft, Millibars	Yes	Yes	3	---
ALT20IMF-3	10-02260	20,000 ft, Inches & Millibars	Yes	Yes	3	---
ALT6MEMB-3	10-02257	6,000 meter, Millibars	Yes	No	3	---
ALT20MBF-3N	10-02256	20,000 ft, Millibars	Yes	No	3	---

UMA 3-1/8" ALTIMETERS

This UMA standard altimeter utilizes a single pointer and is designed to meet the needs of the low-cost Non-IFR user. This altimeter utilizes a single pointer and adjustable barometric scale, viewed through a Kollsman Window. Can be ordered in inches of mercury or millibar. Available in feet or meters. Aluminum case.

Range	Dial Markings	Scale	Part No.	Price
0-20,000 Ft.	B &W	w/ IN HG	10-22965	---
0-10,000 Ft.	B &W	w/ IN HG	10-02436	---
0-5,500 Ft.	B &W	w/ IN HG	10-02369	---
0-5,500 Ft.	B &W	w/ Millibar	10-05120	---
0-10,000 Ft.	B &W	w/ Millibar	10-05125	---
0-20,000 Ft.	B &W	w/ Millibar	10-05126	---
0-3,000 M	B &W	w/ Millibar	10-05127	---

UMA 2-1/4" ALTIMETERS

This UMA standard altimeter utilizes a single pointer and is designed to meet the needs of the low-cost Non-IFR user. This altimeter utilizes a single pointer and adjustable barometric scale, viewed through a Kollsman Window. Can be ordered in inches of mercury or Millibar. Scale is available in feet or meters.

Range	Dial Markings	Scale	Part No.	Part No.
0-10,000 Ft.	B & W	w/ IN HG	10-05131	---
0-20,000 Ft.	B & W	w/ IN HG	10-05132	---
0-10,000 Ft.	B & W	w/ Millibar	10-05133	---
0-20,000 Ft.	B & W	w/ Millibar	10-05134	---
0-3000 Mtrs.	B & W	w/ Millibar	10-05883	---

FALCON 3 1/8" NON-SENSITIVE ALTIMETERS

These light weight altimeters feature a non-sensitive altimeter on a 3-1/8", single pointer, and a barometric window. A setting knob allows the pilot to set the barometric reading to the correct field elevation or barometric pressure setting. They are weight conservative, economical, yet very precision and accurate instruments that provide excellent altitude measuring capabilities; designed for ultra-light airplanes. 3-1/8" is non-sensitive. Standard Types are either feet reading with barometric window inches of mercury or millibars reading; or meters reading with barometric window millibars reading. Length: 2 3/8" Weight: 10.7 oz.

Part No.	Range	Price
10-03422	10,000 ft./20,000 ft. Inches	---
10-02251	6,000 ft., Millibars	---
10-02252	10,000 ft., Millibars	---

FALCON 2 1/4" SENSITIVE ALTIMETERS

2-1/4" is sensitive. Single Pointer, and a barometric window. A setting knob allows the pilot to set the barometric reading to the correct field elevation or barometric pressure setting. They are weight conservative, economical, yet very precision and accurate instruments. It is suitable where space and weight is a consideration. This type is available in Feet or Meter reading, the baro-metric window can be either in inches of mercury or in millibars reading. Length: 2 3/8" Weight: 3.6 oz.

Model No.	Part No.	Range	Price
ALTN6INF-2	10-02205	5,500 ft, Inches	---
ALTN10INF-2	10-04510	10,000 ft, Inches	---
ALTN6MBF-2	10-04070	6,000 ft., Millibars	---
ALTN10MBF-2	10-04071	10,000 ft., Millibars	---
ALTN3ME-2	10-02207	3,000 Meters, Millibars	---
ALTN6ME-2	10-02254	6,000 Meters, Millibars	---

Falcon Gauges are made in China.

WINTER ALTIMETERS

Casing made of black plastic-airtight. Connection via hose line from static pressure pick-up point to connection coupling at the rear. Scale window with millibar or inch-HG scale.

Description	Part No.	Price
Winter 2-1/4 Altimeter 4 FGH 40 1000-20000 Ft Mb	10-05623	---
Winter 2-1/4 Altimeter 4 FGH 40 1000-20000 Ft INGH	10-05624	---
Winter 3 Altimeter EBH 8034 0-5000 FT INHG	10-05633	---
Winter 3 Altimeter EBH 8035 0-10000 FT INHG	10-05635	---
Winter 3 Altimeter EBH 8038 0-5000 FT MB	10-05636	---
Winter 3 Altimeter EBH 8039 0-10000 FT MB	10-05637	---
Winter 3 Altimeter 4 FGH 10 1000-20000 FT MB	10-05621	---
Winter 3 Altimeter 4 FGH 10 1000-20000 FT INHG	10-05622	---

STADIA AGL LIDAR LANDING ALTIMETER

Stadia is an AGL altimeter landing aid that uses LIDAR to measure the aircraft's height above ground with incredible precision. Stadia connects to the pilot's smartphone via Bluetooth and alerts the pilot to their altitude with audible cues. Stadia has a maximum altitude of 130ft, and a rechargeable battery life of up to 12 hours. Per the manufacturer "Because Stadia is considered a temporary attachment it is not subject to FAA regulatory purview."

Specifications: • Model A & Model B: 2.25 lbs, 8.5" x 6" x 3.75" • Model L: 12 oz, 4" x 5" x 4.75"

Model A - Strut Braced - Struts with Thickness from 1-5/32" - 1-3/4
P/N 11-19068 ..... ---

Model B - Strut Braced - Struts with Thickness from 1-3/4" - 2-3/8"
P/N 11-19069 ..... ---

Model L - For Most Aircraft with Tie Down Ring
P/N 11-19070 ..... ---

STADIA NEPTUNE AGL LANDING ALTIMETER FOR FLOAT PLANES

Stadia Neptune is a new radar altimeter designed by Skeeter Enterprises specifically to assist floatplanes with glassy water landings! Building on the success of the original Stadia LIDAR model, Stadia Neptune offers unparalleled capability over water surfaces. Its advanced radar technology ensures safe and precise altitude measurements, making it an essential tool for floatplane pilots. Elevate your flying experience with Stadia Neptune and navigate glassy waters with confidence.

Model A - Wing Strut Braced - Struts with thickness from 1-5/32" - 1-3/4" (typically for airplanes with Cub style struts)
P/N 11-20423..... ---

Model B - Wing Strut Braced - Struts with thickness from 1-3/4" - 2-3/8" (typically for airplanes with Cessna style struts)
P/N 11-20424..... ---

Model L - For most aircraft with Tie-Down rings or other attachment points
P/N 11-20425..... ---

INSTRUMENT BUGS

"Bugs" are perfect for pilots who rent aircraft, and for owners. The transparent suction cup works on all instruments. A thumb screw friction lock lets the yellow pointer tip rotate 360°. Fly with it day & night. Includes: 2 "Bugs" in a plastic reusable storage box with instructions and 4 disposable alcohol swabs, which are used to clean the instrument face and bugs so that they stick well.
P/N 10-00114 ..... ---

OPERATING RANGE DECALS

Yellow, red, green and white, pressure sensitive. Just pull off backing and place on instrument lens.
P/N 10-03905 ..... **---/set**

AIRCRAFT INSTRUMENT COVER

The instrument cover is a plastic disk approximately 2 3/4" in diameter and 1/16" thick. By use of the attached suction cup, the cover will mask the face of most general aviation flight instruments. It is useful in many training situations one of which is partial panel work. As a safety aid, the cover can be used to mask an instrument when it is non-functional, as is required by Regulations. Each package has two covers.
P/N 13-04968 ..... ---

INOPERATIVE INSTRUMENT AID

Designed with static cling polyester, the IIA will stick to your glass instrument face without licking and will stay there until you want to remove it. Practicing instrument failures during flight is a requirement by the Federal Aviation Administration for your practical test. One package includes four Inoperative Instrument Aids. Developed by a Certified Instrument Flight Instructor with the intent to improve instrument instruction. Measures 3" in diameter.
P/N 13-04173 ..... ---

REDUCING MASK

Precision die-cut black anodized aluminum masks simplify installation of small instruments in large instrument panel cut-outs.
3-1/8" size cut-out to 2-1/4" size
P/N 10-06100 ..... ---

MOUNTING PLATE FOR THE 3 ATI INSTRUMENT

Quick fix for a hard to cut out opening. Plate is .500 wider than instrument. For easy mounting, material is .080 aluminum.....P/N 10-00154 ..... ---

REDUCING PLATE FROM 2-1/4" DIA.

Reduce from 2.25" to 2" diameter instrument. For oil pressure, ammeter gauge etc.
P/N 10-00155 ..... ---

INSTRUMENT PANEL COVER-UPS

These white stick on instrument size covers are ideal for partial panel practice or to cover an actual failed instrument. These covers are reusable and are furnished in a package of 5 covers.
P/N 10-00066 ..... ---

3ATI REDUCER PLATES

07-01331

3ATI Reducers to 3 1/8" - Use a 3ATI hole cut out to mount 3 1/8" diameter instrument. Plate can be shimmed to instrument panel thickness. Simple installation. Heat-treated aluminum .080 thick with black anodize finish .....P/N 07-01331 ..... ---

07-01330

3ATI Reducers to 2 1/4" - Use a 3ATI hole cut out to mount 2 1/4' diameter instruments. Plate can be shimmed to instrument panel thickness, comes with 4 rivets. Simple installation. Heat-treated aluminum .080 thick with black anodize finish.
BACK PLATE 3.8 X 3.8
P/N 07-01330 ..... ---

INSTRUMENT PANEL COVER-UPS FOR PFD / MFD

Cover ups for PFD and MFD screens for glass cockpit training. For partial panel practice & actual instrument failures. • Reusable, 3 per pack • "Cling" type plastic covers, with lift tab • Zip lock plastic bag for convenient storage.
P/N 13-06116 ..... ---

INSTRUMENT HOLE COVER PLATES

Use these plates to attractively cover unused panel cut-outs. Aluminum and plastic plates have raised center, which brings the plug face about even with the front surface of the panel.

Predrilled

Plastic plate for standard altimeter hole..... P/N 10-07100 ..... ---
Aluminum plate for 2-1/4"hole, black wrinkle ..... P/N 10-00427 ..... ---
Aluminum plate for 2-1/4"hole, no paint..... P/N 10-00428 ..... ---
Aluminum plate for 3-1/8"hole, black wrinkle ..... P/N 10-00429 ..... ---
Aluminum plate for 3-1/8"hole, no paint..... P/N 10-00430 ..... ---
Plastic plate for 3ATI hole, black fire retardant... P/N 10-00433 ..... ---
Aluminum plate for 3ATI hole, black wrinkle..... P/N 10-00434 ..... ---
Aluminum plate for 3ATI hole, no paint..... P/N 10-00436 ..... ---
Plastic plate for half ATI hole, black fire resist.... P/N 10-00437 ..... ---

INSTRUMENT PANEL LAYOUT TEMPLATE

Use this template for precise positioning of instrument holes and mounting screw holes in panel. For both 2-1/4" & 3-1/8" dia. instruments. With transfer punch for marking screw hole centers and instructions.
P/N 12-14600 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

UNITED VERTICAL SPEED INDICATORS

The vertical speed indicator is a precision instrument which provides an accurate indication of rate of change of altitude. This instrument is temperature compensated and is provided with a zero adjustment screw on the face of the case in the seven o'clock position. Power: Static system. Manufactured by United Instruments. Used in most production aircraft. Size: 3-1/8" x 3-1/8" x 4", Wt. 0.7 lb. TSO-C8b.

Unlighted VSI's

0-2000 FPM ..... P/N 10-05200 ..... ---
0-3000 FPM ..... P/N 10-20400 ..... ---
0-4000 FPM ..... P/N 10-20500 ..... ---
0-6000 FPM ..... P/N 10-05250 ..... ---

Lighted VSI's

0-2000 FPM ..... P/N 10-00925 ..... ---
0-3000 FPM ..... P/N 10-00926 ..... ---
0-4000 FPM ..... P/N 10-00927 ..... ---
0-6000 FPM ..... P/N 10-00928 ..... ---

FALCON VERTICAL SPEED INDICATORS

These Vertical Speed Indicators (Rate of Climb), have been installed in thousands of planes. Available in climb ranges from 2,000 feet per minute to 3,000 feet per minute, and 10 meters per second. This precision aircraft instrument provides immediate climb and descent information with an easy to read dial and is extremely reliable and durable. Over several decades, they have been servicing and satisfying pilots and kit plane builders worldwide.
The 2-1/4" altimeter is perfect for the ultra-light models and where space and weight are a factor of consideration. Made in China.
Specifications: • Model No: VS12FM-3 • Size: 3-1/8" • Length: 4.25"/105mm • Range: 2,000 - 4,000 ft/min • Weight: 12.7 oz

Part No.	Size	Range	Length	Weight	Price
10-05352	3 1/8"	2,000 ft/min	4.25"/105mm	12.7 oz	---
10-05210	3 1/8"	3,000 ft. / Min.	4.25"/105mm	12.7 oz	---
10-02246	3 1/8"	10 meter/second	4.25"/105mm	12.7 oz	---
10-01643	2 1/4"	2,000 ft. / Min.	4.8"/112mm	9.2 oz	---
10-00983	2 1/4"	10 Meters / Sec.	4.8"/112mm	9.2 oz	---

3-1/8" UMA VERTICAL SPEED INDICATORS

The vertical speed indicator is a precision instrument which provides an accurate indication of rate of change of altitude. This instrument is temperature compensated and is provided with a zero adjustment screw on the face of the case in the seven oclock position. Power: Static system.

Part No.	Name	Range	Price
10-20505	Vertical Speed	0-2,000'	---
10-02368	Vertical Speed	0-3,000'	---
10-20506	Vertical Speed	0-4,000'	---
10-20508	Vertical Speed	0-6,000'	---
11-07239	Optional internal lighting		---

UMA MINIATURE 2 1/4" VERTICAL SPEED INDICATORS

This instrument mounts in a standard 2-1/4" instrument panel cutout. New manufacture with brilliant easy-to-read matte-white numerals on black background. Size: 23/8"x 23/8"x 31/4" long.

Part No.	Name	Range	Price
10-05500	Vertical Speed	0-2,000 Ft.	---
10-00079	Vertical Speed	0-3,000 Ft.	---
10-05550	Vertical Speed	0-4,000 Ft.	---
10-05560	Climb	0-4,000 Ft.	---
10-05570	Rate of Change	0-4,000 Ft.	---
10-05580	Cabin Climb	0-4,000 Ft.	---
10-05600	Vertical Speed	0-6,000 Ft.	---
10-05610	Climb	0-6,000 Ft.	---
10-06910	Rate of Change	0-6,000 Ft.	---
11-07239	Optional internal lighting		---

FLIGHT DATA G-METER GT50 12/28

Note: Now FAA Approved as a replacement clock in non-transport category aircraft.
The GT-50 is a Six Function: Accelerometer - Clock - Voltmeter - Temperature for Experimental Aircraft.
G-Meter: • Continuous Instantaneous Display to +12/-10 G's • Records and Saves Max and Min G's • 30 Degree (Sonex) Tilted Panel Compatible
Flight Timer: Automatically Records Flight Time
Clock: 12 or 24 Hour Format
Timer/Stopwatch Voltmeter Features: • Best G-Meter Value Available • Extreme Operating Temperature Display • Soft Orange Backlight • 2-1/4" Panel Mounted • Weighs 2.5oz • Includes Pre-Wired Connector • 12-28 Volt Compatible

Standard ..... P/N 10-03691 ..... ---
With USB ..... P/N 10-07330 ..... ---
Flight Data OAT Probe GT50 ..... P/N 10-03694 ..... ---

WINTER VARIOMETERS

The instrument consists of a cylindrical chamber with a precision-fit baffle plate (vane) rotating on shock proof jewel bearings and centered by a coil spring. The tiny housings mean that these instruments can be installed even where space is restricted. Available in 2-1/4" and 3" sizes.

Description	Part No.	Price
Winter 2-1/4 Variometer 1000 FT Min	10-05638	---
Winter 2-1/4 Variometer 10 Knots	10-05639	---
Winter 2-1/4 Variometer 2000 FT Min	10-05642	---
Winter 2-1/4 Variometer 1000 FT Min Log	10-05644	---
Winter 3 Variometer 1000 Ft Min	10-05640	---
Winter 3 Variometer 10 Knots	10-05641	---
Winter 3 Variometer 2000 Ft Min	10-05643	---
Winter 3 Variometer 1000 Ft Min Log	10-05646	---
Flask for Winter Variometer	10-03856	---

SKYSPORTS VACUUM ATTITUDE GYRO

The Skysports Vacuum Attitude Gyro is a standard artificial horizon gyro powered by the vacuum system in the aircraft. It is ideal for use in a wide variety of experimental aircraft. Non-TSO'd. Size: 3-3/8"x6.46/164m. Weight: 2.4lb/984g. **Specifications**: • Ambient temperature: -30 to +50 degree centigrade • Ambient relative humidity: no more than 95% • Anti-vibration tensity: 1.5g • Height: 4600m • Driving power: 15 ~18K Pa for vacuum or air pressure • Pressure for starting: 7KPa ..... P/N 10-05423 ..... ---

SKYSPORTS ELECTRIC ATTITUDE GYRO

The Skysports Electric Attitude Gyro is a high quality gyro which is excellent for a wide variety of experimental aircraft. It features a power failure flag which drops into view if voltage is below operational requirements. It also includes a "Pull to Cage" knob. Non-TSO'd. Power Supply: 14V. Dimension: 3-3/8" x 6.46/164mm Weight: 2.4lb/984g. **Specifications**: • Operating voltage: 14 ± 10% VDC • Ambient Temperature: -40 ~ +50°C • Relative Humidity: It can reach 95% at 20 ± 5°C • Vibration Strength: not more than 1.5g
P/N 10-05422 ..... ---

NON-TSO'D VERTICAL SPEED INDICATORS

Skysports vertical speed indicators are easy to read, lightweight, and durable. These rate of climb indicators are available in several different ranges and are in use in a wide variety of experimental aircraft worldwide.
Non-TSO'd
Size: 3-1/8"
Length: 4.25"/105mm
Weight: 12.7 oz

Part No.	Size	Range	Length	Weight	Price
10-05361	3 1/8"	2,000 ft/min	4.25"/105mm	12.7 oz	---
10-05360	3 1/8"	10 meter/second	4.25"/105mm	12.7 oz	---

Skysports Instruments are made in China.

IN

SKYSPORTS NON-TSO'D INSTRUMENTS

SKYSPORTS VACUUM DIRECTIONAL GYRO

The Skysports Vacuum Directional Gyro is a standard gyro powered by the vacuum system in the aircraft. It is ideal for use in a wide variety of experimental aircraft. Non-TSO'd.

Dimensions:
3-3/8" x 5-5/16"/134.95mm. Weight: 2.25lb/984g.

Specifications:
• Air-pressure for operation: 15 ~18Kpa • Air-pressure for starting: 7Kpa • Ambient temperature: -30 to +50 degree centigrade; • Relative humidity: 0-95% • Anti-vibration tensity: 1.5g • Height: 40000 feet • Range for operation: indicates direction within the range of 360°

P/N 10-05421 ..... ---

SKYSPORTS ELECTRIC DIRECTIONAL GYRO

The Skysports electric directional gyro is a high quality gyro providing smooth operation, long life, and reliability. It features a warning flag which is displayed when voltage drops below operation requirements, and the instrument is LED lighted with automatic dimming. A good choice for a wide variety of experimental aircraft. Non-TSO'd.

Dimensions: 3-3/8".

Specifications: • Operating Voltage: DC. 14 ±1%V • Ambient Temperature: -40 ~ +50°C • Relative Humidity: It can reach 95% at 20 ± 5°C • Vibration Strength: not more than 1.5g

P/N 10-05077 ..... ---

SKYSPORTS 3-1/8" SENSITIVE ALTIMETERS

Skysports sensitive altimeters feature three pointers and knob to set correct barometric pressure enroute and destination. High quality sensitive altimeters which are in use in thousands of experimental aircraft worldwide. Non-TSO'd Size: 3 1/8" Weight: 1.4 lbs. or 592g Pointers: 3
Barometric Window: Yes

Range	Warning Stripes	Part No.	Price
20,000 ft, Inches	Yes	10-04400	---
20,000 ft, Inches & Millibars	Yes	10-05374	---
20,000 ft, Inches	No	10-05372	---

SKYSPORTS 3 1/8" SINGLE RANGE AIRSPEEDS

Skysports airspeed indicators are lightweight, reliable, and are housed in short length aluminum cases. They give accurate indications at slow speeds and are available in a variety of ranges. These airspeed indicators are excellent for a wide range of experimental and ultralight aircraft. Non-TSO'd. **Size**: 3 1/8" Length: 3.5in/97.3mm **Weight**: 10.2oz/290g

Model No.	Length	Range	Part No.	Price
BK-33	97.3mm	20-180 MPH	10-05394	---
BK-9C	58mm	20-180 MPH	10-05409	---
BK-31	97.3mm	20-140 MPH	10-05392	---
BK-6C	58mm	20-150 MPH	10-05405	---
BK-12	58mm	20-80 KNT	10-05381	---
BK-13A	58mm	20-100 KNT	10-05384	---
BK-3A	97.3mm	20-140 KNT	10-05399	---
BK-34	97.3mm	30-180 KNT	10-05395	---
BK-5A	97.3mm	30-220 KNT	10-05404	---
BK150-1A	58mm	30-150 KPH	10-05388	---
BK200-1A	58mm	0-200 KPH	10-05389	---
BK300	58mm	40-300 KPH	10-05391	---

SKYSPORTS 3-1/8" DUAL AIRSPEEDS

Skysports dual dial airspeeds provide the pilot with airspeed indications in MPH and Knots, and are housed in a lightweight, durable aluminum case. These airspeed indicators are ideal for a wide variety of experimental aircraft flying at higher cruise speeds. Non-TSO'd. **Weight:** 10.5 oz / 301g. **Length:** 2.2" or 56.5mm **Size:** 3 1/8" **Length:** 3.5" or 97.3mm **Weight:** 10.5 oz / 301g

Model No.	Range	Part No.	Price
BK-4	30-180 MPH/30-160 KNT	10-05400	---
BK-10	30-200 MPH/30-180 KNT	10-05380	---
BK-5	30-250 MPH/30-220 KNT	10-05402	---

SKYSPORTS VERTICAL CARD COMPASSES

The Skysports Vertical Card compass features a 2 inch vertical card dial which presents the entire 360 degree heading range at all times for easy interpretation. It is a dry compass which eliminates the leaking and much of the precessing common in wet compasses. Lighted 12VDC. Non-TSO'd.

Description	Part No.	Price
Northern Hemisphere, Compass Only	10-04173	---
Northern Hemisphere, Compass & Mounting Bracket	10-05425	---
Southern Hemisphere, Compass Only	10-05426	---
Southern Hemisphere, Compass & Mounting Bracket	10-05427	---

SKYSPORTS PANEL MOUNT COMPASSES

Skysports aircraft compasses are similar in design and function to the industry standard C2300 and C2400 series compasses. High quality and economically priced. Error of the compass is no more than 2.5 degree; Friction error is no more than 1 degree; When an aircraft tilts for 10,the error is no more than 4 degree; Ambient temperature is-55TO +60 degree centigrade. Non-TSO'd. Size: 2-1/4". Mount: Panel Mount (Lighted or unlighted) Weight: 6.9oz/198g

Description	Part No.	Price
Northern Hemisphere, Not Lighted	10-05412	---
Northern Hemisphere, 12V-24V Lighted	10-05413	---
Southern Hemisphere, Not Lighted	10-05415	---

SKYSPORTS 2-1/4 CHT 50-150C 120-300°F

2-1/4" CHT Gauge, 50-150C / 120-300°F

P/N 10-05948 ..... ---

SKYSPORTS 2-1/4 ROTOR TACHOMETER & SENDER 0-700 RPM

2-1/4", 0-700 RPM .....P/N 10-05947 ..... ---

SKYSPORTS 2-1/4 OIL PRESSURE GAUGE 0-10 BAR 0-145 PSI

2-1/4" Oil Pressure Gauge, 0-10 BAR 0-145 PSI

P/N 10-05951 ..... ---

Skysports Instruments are made in China.

SWIFT INSTRUMENTS

SWIFT AIRSPEED INDICATORS

2-1/4"

3-1/8"

2-1/4 INCH

Model No.	Description	Part No.	Price
ASI2-120M	0-120 MPH	10-06290	---
ASI2-120N	0-120 Knots	10-06291	---
ASI2-160K	0-160 KPH	10-06292	---
ASI2-160M	0-160 MPH	10-06293	---
ASI2-160N	0-160 Knots	10-06294	---
ASI2-200K	0-200 KPH	10-06295	---
ASI2-200M	0-200 MPH	10-06296	---
ASI2-200N	0-200 Knots	10-06297	---

3-1/8 INCH

Model No.	Description	Part No.	Price
ASI3S-80M	0-80 MPH	10-06331	---
ASI3S-100M	0-100 MPH	10-06311	---
ASI3S-120M	0-120 MPH	10-06314	---
ASI3S-140M	0-140 MPH	10-06316	---
ASI3S-160M	0-160 MPH	10-06319	---
ASI3S-180M	0-180 MPH	10-06321	---
ASI3S-200M	0-200 MPH	10-06324	---
ASI3S-120K	0-120 KPH	10-06313	---
ASI3S-160K	0-160 KPH	10-06318	---
ASI3S-200K	0-200 KPH	10-06323	---
ASI3S-220K	0-220 KPH	10-06326	---
ASI3S-250K	0-250 KPH	10-06327	---
ASI3S-300K	0-300 KPH	10-06328	---
ASI3S-350K	0-350 KPH	10-06329	---
ASI3S-400K	0-400 KPH	10-06330	---
ASI3S-80N	0-80 Knots	10-06332	---
ASI3S-100N	0-100 Knots	10-06312	---
ASI3S-120N	0-120 Knots	10-06315	---
ASI3S-140N	0-140 Knots	10-06317	---
ASI3S-160N	0-160 Knots	10-06320	---
ASI3S-180N	0-180 Knots	10-06322	---
ASI3S-200N	0-200 Knots	10-06325	---

SWIFT SWITCHABLE AIRSPEED INDICATORS

These 3-1/8" Airspeed Indicators can be switched between MPH, KPH, and Knots scales.

Model No.	Description	Remarks	Part No.	Price
ASI3-80	0-80 MPH/KPH/Knots	Unit Switchable	10-06310	---
ASI3-100	0-100 MPH/KPH/Knots	Unit Switchable	10-06298	---
ASI3-120	0-120 MPH/KPH/Knots	Unit Switchable	10-06299	---
ASI3-140	0-140 MPH/KPH/Knots	Unit Switchable	10-06300	---
ASI3-150	0-150 MPH/KPH/Knots	Unit Switchable	10-06301	---
ASI3-160	0-160 MPH/KPH/Knots	Unit Switchable	10-06302	---
ASI3-180	0-180 MPH/KPH/Knots	Unit Switchable	10-06303	---
ASI3-200	0-200 MPH/KPH/Knots	Unit Switchable	10-06304	---
ASI3-220	0-220 MPH/KPH/Knots	Unit Switchable	10-06305	---
ASI3-240	0-240 MPH/KPH/Knots	Unit Switchable	10-06306	---
ASI3-260	0-260 MPH/KPH/Knots	Unit Switchable	10-06307	---
ASI3-300	0-300 MPH/KPH/Knots	Unit Switchable	10-06308	---
ASI3-400	0-400 MPH/KPH/Knots	Unit Switchable	10-06309	---

SWIFT ALTIMETER AND BAROMETERS

2-1/4"

3-1/8"

2-1/4 INCH

Model No.	Description	Remarks	Part No.	Price
ALT2-10F1	10,000 FT 1 Pointer	Barometric unit switchable: mb/inHg	10-06284	---
ALT2-1.5M1	1,500 M 1 Pointer	Barometric unit switchable: mb/inHg	10-06283	---
ALT2-3M1	3,000 M 1 Pointer	Barometric unit switchable: mb/inHg	10-06285	---
ALT2-5F1	5,000 FT 1 Pointer	Barometric unit switchable: mb/inHg	10-06286	---

3-1/8 INCH

Model No.	Description	Remarks	Part No.	Price
ALT3-40f3	40,000 FT 3 Pointer	Barometric unit switchable: mmHg/inHg/mb	10-06256	---
ALT3-10F2	10,000 FT 2 Pointer	Barometric unit switchable: mmHg/inHg/mb	10-06287	---
ALT3-10M2	10,000 M 2 Pointer	Barometric unit switchable: mmHg/inHg/mb	10-06288	---
ALT3-10M3	10,000 M 3 Pointer	Barometric unit switchable: mmHg/inHg/mb, 100m/circle	10-06289	---

SWIFT VERTICAL SPEED INDICATORS

2-1/4"

3-1/8"

2-1/4 INCH

Model No.	Description	Part No.	Price
VSI2-10MS	2000 ft/min	10-06348	---
VSI2-20FM	10 m/sec	10-06349	---

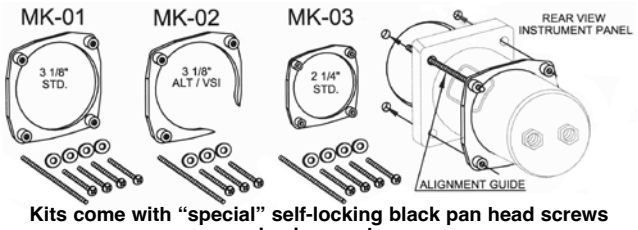
3-1/8 INCH

Model No.	Description	Remarks/Depth	Part No.	Price
VSI3-10MS	10 m/sec	56mm	10-06350	---
VSI3-20MS	20 m/sec	Large Range/96mm	10-06352	---
VSI3-30MS	30 m/sec	Large Range/96mm	10-06354	---
VSI3-20FM	2000 ft/min	56mm	10-06351	---
VSI3-30FM	3000 ft/min	96mm	10-06353	---
VSI3-60FM	6000 ft/min	Large Range/96mm	10-06355	---
VSI3S-10MS	10 m/sec	56mm	10-06461	---
VSI3S-20FM	2000 ft/min	56mm	10-06462	---
VSI3S-30FM	3000 ft/min	56mm	10-06463	---

IN

INSTRUMENT MOUNTING & ADAPTER KITS

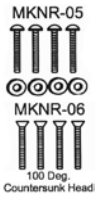
INSTRUMENT MOUNTING KITS



Kits come with "special" self-locking black pan head screws and nylon washers

Precision machined "Nut Ring" instrument mounting kit. Designed to slide on from the back side of the instrument using the alignment guide pin inserted through a screw hole. Pulling on the alignment pin from the front side of the panel allows you to hold the instrument in correct alignment in the panel. Specially designed self-locking pan head black brass mounting screws and nylon washers are then easily installed from the front. Countersunk self-locking black brass screws are also available. Extra screws & washers are sold in packs of 12. The nylon washer keeps from chipping the instrument panel. All self-locking screws are extra long to accommodate the extra thickness of light wedges and internally lighted instruments. Nut Rings can be installed without removing hoses, tubing, or electrical connections. Designed to replace "grasshopper nuts". PMA'd.

Alignment guide pin sold separately. (P/N 10-03696)



Model	Description	Part No.	Price
MK-01	3-1/8" Std.	10-00335	---
MK-02	3-1/8" ALT/VSI	10-00336	---
MK-03	2-1/4" Std.	10-00337	---
MKNR-05	Pan Head Screws	10-00338	---
MKNR-06	Countersunk Screws	10-00339	---
Accessories			
AP-01	Alignment Mounting Kit	10-03696	---

"EZ NUTS" INSTRUMENT MOUNTING SYSTEM BY SPT

11-01830

11-01831

Take the frustration out of mounting instruments with the use of Superior Panel Technology's EZ Nuts. Adhesive tape securely holds nut ring in place. No realignment if instrument is later removed. Aluminum bezel is treated to prevent corrosion. The pressed in stainless steel inserts eliminate the problem of striped threads. Simply cut off one corner if only three screws are needed. Save labor time when compared to "grasshopper nuts". Includes four 1-1/2" non-magnetic black oxide stainless steel, pan-head screws. Stronger than brass. Includes four black nylon washers to prevent marring of the panel.

*100 degree countersunk screws available and are sold in packs of eight.

3-1/8" Bezel .....P/N 11-01830 ..... ---
2-1/4" Bezel .....P/N 11-01831 ..... ---
Black-Oxide Stainless Steel Countersunk screw package (set of 8) .....P/N 11-06546 ..... ---
Black-Oxide Stainless Steel Pan head screw package - **Note**: Includes eight black nylon washers that will enhance the appearance of the panel and will prevent the marring and scratching of the panel during instrument installation and removal.
(set of 8) .....P/N 11-09911 ..... ---

PITOT TUBE PROTECTORS

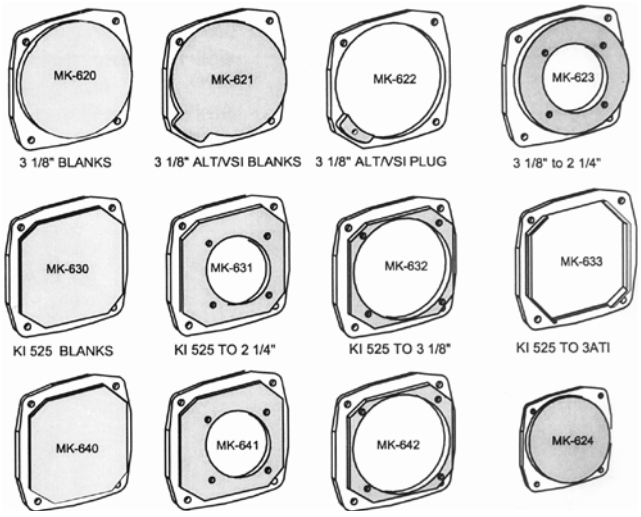
These hinged pitot tube protectors open automatically in take off at speed of about 40 mph and close automatically at end of landing roll.

Model No.	Part No.	Fits Pitot Tube Sizes	Price
1	10-02000	1/4" O.D.	---
2	10-02100	1/2" O.D.	---
3	10-04968	3/16" O.D.	---

REMOVE BEFORE FLIGHT RIBBON

This 3" x 24" orange vinyl streamer with black letters, features a grommet for a clip ring to attach anywhere on the aircraft. High visibility, fire resistant material. .....P/N 15200 ..... ---

INSTRUMENT ADAPTER KITS



CNC Machined from aircraft grade aluminum. The adapter face is raised .075" to give the flush panel look. Easy to install and easily painted.

See www.aircraftspruce.com for specifications.

Model	Description	Part No.	Price
MK-620	3-1/8" Blank	10-00340	---
MK-621	3-1/8" ALT/VSI Blank	10-00341	---
MK-622	3-1/8" ALT/VSI Plug	10-00342	---
MK-623	3-1/8" to 2-1/4"	10-00343	---
MK-624	2-1/4" Blank	10-00344	---
MK-630	KI525 Blank	10-00345	---
MK-631	KI525 to 2-1/4"	10-00346	---
MK-632	KI525 to 3-1/8"	10-00347	---
MK-633	KI525 to 3 ATI	10-00348	---
MK-640	3 ATI Blank	10-00349	---
MK-641	3 ATI to 2-1/4"	10-00350	---
MK-642	3 ATI to 3-1/8"	10-00351	---

PITOT TUBE COVERS

PITOT TUBE BOOTY - Durable leather-like cover provides optimum protection. Velcro strap attaches booty to 5/8" or 11/16" dia. L-shaped pitot tube. Bright red "Remove Before Flight" streamer. Made of flame-proof & weather-resistant National Aerospace material ....P/N 15210 ..... ---

SLIP-ON PITOT TUBE COVER - Not shown. Same as above except is slip fit over 1/4" or 1/2" dia. pitot tube. Red "Remove Before Flight" streamer is attached to cover. Made of flame-proof and weather-resistant National Aerospace material .....P/N 15220 ..... ---

DEGROFF'S PITOT SHIELDS

PITOT SHIELDS are a "fail-safe" pitot tube cover that will protect the pitot tube from contamination by insects, debris and ice while the airplane is on the ground. It is friction-fit to the pitot tube and has a calibrated "flat-plate-forward" design that, upon reaching a specific velocity, will release from the pitot tube and fall harmlessly away, allowing for normal airspeed indications. The cover utilizes EVA foam that is UV resistant and stable at temperatures reached by heated pitot tubes. It is a highly visible color with the words "REMOVE BEFORE FLIGHT" printed and visible from all directions. This pitot tube cover is soft, but tough. It will not damage aircraft surfaces when it comes off during ground roll, nor will it be a potentially hazardous foreign-object on the runway.

For 5/8" pitot tube.....P/N 10-00491 ..... ---
For 3/4" pitot tube.....P/N 10-00492 ..... ---

ALUMINUM PITOT MAST

Custom manufactured aluminum pitot mast designed for the popular Van's Aircraft RV kit aircraft. Aluminum streamline tubing is correct size for all popular pitot tubes. Aluminum mounting plate is .070" thick aluminum, precision welded to the tubing. Mounting plate measures 3" wide X 4" long. Streamlined mast is 5" long. The mounting plate has a jog on the forward side to overlap the spar flange inside the wing. This mast can be used on other popular aircraft that require a mast for the pitot tube. Blue anodized finish. Mounting instructions and template included. Made in the USA. .....P/N 12-04764 ..... ---

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PITOT TUBES

UNHEATED PITOT TUBES

STRAIGHT TYPE
Flange-mounted through leading edge of spar. Aluminum tube 24" long, 1/4" dia. May be cut to shorten.....P/N 15133 ..... ---

L-SHAPED TYPE
Flange mounted L-shaped model for under-the-wing mounting. 1/4" dia. aluminum tube.... P/N 15135.....

L-SHAPED PITOT-STATIC TUBE
Same design with static tube added. For pitot tube cover order #15220 or 10-02100 (flip up).
P/N 15144 ..... ---

STRAIGHT TYPE PITOT-STATIC TUBE
Clamp-mounted for leading edge of wing. 14-1/2" long. May be shortened, formed or shaped to best angle of attack. 1/4' dia. aluminum tubes. All installation hardware furnished.
P/N 10-01800 ..... ---

STRUT TYPE PITOT-STATIC TUBE
Simple L-shaped design for clamping to strut. 1/4" dia. aluminum tubes .....P/N 10-01900 ..... ---

MAST-MOUNT PITOT TUBE
Designed for mounting in 3/4" O.D. x .049" wall aluminum tubing (not furnished). Machined from solid aluminum. Includes Polyethylene hose fitting for 1/4" I.D.....P/N 15170 ..... ---

RAVEN PITOT STATIC TUBE
Pitot system combines pitot and static functions in one tube. Used for years on many different aircraft. Comes complete with mounting block to install it.
P/N 10-00476 ..... ---

PITOT STATIC SUMP BOTTLE
This pitot-static sump bottle collects moisture in the aircraft's static system which prevents water damage to panel mounted instruments. Used in many Cessna aircraft. Measures 1.625" dia. x 4.75" long. Thread size: 7/16-20 for a nylon fitting & 1/8" NPT to the static port ....P/N 10-00630 ..... ---

STATIC PORTS

STATIC PORT ALUMINUM 15160
Aluminum static port for mounting through 9/16" dia. hole in side of fuselage. Base has 1/8" NPT female port for connecting to static line (polyethylene fitting included). Install with 3/32" dia. flush rivets.....P/N 15160.....

STATIC PORT 15165 ONLY
Aluminum static port mounts from outside of fuselage through 9/16" dia. hole. Secure to skin with 9/16" Pal nut & lock washer on inside. Includes (1) 0700-153 polyethylene fitting.
Kit.....P/N 15165 ..... ---
Static port only.....P/N 10-00658 ..... ---

STATIC PORT KIT 15175
Aluminum static port mounts from outside of fuselage through .560 dia hole. Secure with four countersunk 100o 3/32" rivets. Includes one 0700-153 polyethylene fitting.
P/N 15175 ..... ---

STATIC PORT ALUMINUM 15161
Aluminum static ports mount 1-1/4" base OD from outside of fuselage through 5/16" ID hole. Secure with 4 countersunk 3/32" rivets to skin with pal nut & lock washer on inside.
P/N 10-00659 ..... ---

STATIC PORT ALUMINUM 15171
Aluminum static ports mount 1-1/4" base OD from outside of fuselage through 5/16" ID hole. Secure with 4 countersunk 3/32" rivets to skin with pal nut & lock washer on inside.
P/N 10-00660 ..... ---

WINTER PITOT TUBE

The pitot tube is the sensor for aircraft instruments. It consists of a cylindrical tube open at the front to sense total pressure (measuring pressure for airspeed indicators) and slotted along the sides to sense static pressure. These pressures must then be carried to the instruments by hoses.
Pitot Tube .....P/N 10-03854 ..... ---
Venturi Tube.....P/N 10-03855 ..... ---

HEATED PITOT TUBES

AN5812 PITOT TUBE - This heated pitot tube mounts under the wing. Used on Mooney, Beech, Piper, Maule, American Aviation aircraft, Glasair & Glastar. Threaded outlet fits 1/4" size AN tube fittings. Use 2.023x.857x.049 4130 Streamline Tubing to fabricate mount.
(12V) (10 amp.) .....P/N AN5812-12 ..... ---
(24V) (15 amp.) .....P/N AN5812-1 ..... ---
Phenolic connector receptacle .....P/N 10-00032 ..... ---

AN5813-1 PITOT TUBE - The AN5813-1(PH500) is the standard replacement heated pitot tube for twin Cessnas with 24V systems. Draws 3-4 amps and measures 93/4" long. Mounts in 1.18 diameter tube.
Dull finish .....P/N 10-00064 ..... ---

FALCON HEATED PITOT TUBES

The AN5812 heated pitot tube has been used on a wide variety of aircraft over the years and is now available for experimental aircraft. Made from brass and weighing 1.5 lbs, these imported pitot tubes meet the AN specifications. Made in China.

Model No.	Description	Part No.	Price
12-AN5812	12V, standard	10-00984	---
12-AN5812-1	12V, Long Pipe for RV's	10-04199	---
12-AN5812-2	12V, left and right drain holes	10-04201	---
24-AN5812	24V, standard	10-00985	---
24-AN5812-2	24V, left and right drain holes	10-04202	---
PT-001	non-heated, 1 drain hole	10-04224	---

FALCON GAUGE PITOT TUBE MOUNTING BRACKET
Works with heated and non-heated tubes. Aluminum Alloy Standard Mounting Bracket
P/N 10-01063 .....

GRETZ GA-1000 HEATED PITOT TUBE

Molded from a very high-tech polymer material. Electronics embedded in the Pitot tube. Comes with a small electronic control module to control the heat of the Pitot and information to the pilot regarding performance. A LED board that will mount conveniently on the panel. Will fit the Gretz mounting bracket kits. Come with the electronic control module, the LED board and cable, Pitot mounting screws, electronic control module mounting hardware, and complete instructions for installation and use.....P/N 10-01715 ..... ---

GRETZ GA-500 UNHEATED PITOT TUBE FOR EXPERIMENTAL AIRCRAFT ONLY
Same shape and color as the heated GA-1000 Pitot tube, but does not include the heater, electronic instructions, etc. It will mount into the same Gretz mounting bracket kits. .....P/N 10-01716 ..... ---

WELDED PITOT TUBE ASSEMBLY

This non-heated non-IFR welded pitot tube assembly. It is intended for the experimental VFR aircraft market. The tube and mast are from 4130 tube welded in a fixture to assure alignment. The orifice is produced from aircraft grade aluminum. The pressure tube is polyethylene for easy connection to the aircraft pitot system.
Dimension: 6" x 5" x 2-1/2".....P/N 10-03637 ..... ---

PITOT TUBE KIT

1/4" Aluminum Tubing (03-39300). Vinyl Tube for ASU (AS010.2). 1/4T x 1/8P Polyethylene Hose Adapter (0700-153). 3/8" ID Snapper Clamp (05-00940).....P/N AS010.4 .....

PNEUMATIC TOGGLE SWITCHES

2-Way Toggle Switch, (1/8" NPT Male Inlet) for alternate static air source.
Steel.....P/N 11-12168 ..... ---
Plastic .....P/N 11-12169 ..... ---

IN

ANGLE OF ATTACK INDICATORS

RITEANGLE™ BASIC SYSTEM AOA

The RiteAngle Basic, is a high quality AOA system for aircraft without flaps. This is the most accurate low cost AOA system available to customers today.

Note: The Basic system is for aircraft without flaps only.

The RiteAngle™ Basic uses electronics not available during earlier designs of RiteAngle™ systems. Although operationally similar to prior RiteAngle products, the RiteAngle Basic is a totally new, more efficient, economical design. It is a modern up to date system, that accurately determines your aircraft's angle of attack. This series uses our proven, easy-to-understand, five LED display. Green indicates Safe, Amber indicates Caution, and Red indicates Danger. The "On Speed" AOA, 1.3 Vso will be correct, regardless of bank angle, density altitude, or any of the other variables where the airspeed might be inaccurate.

P/N 11-10388 ..... ---

SAFE FLIGHT SCC LEADING EDGE AOA SYSTEM

The SCc system is tailored specifically for certified aircraft in the general aviation market. In designing the SCc, Safe Flight built on its nearly 70 years of experience in providing aircraft manufacturers primary stall warning and AoA utilizing our patented wing lift sensor technology. The SCc system is comprised of a Lift Transducer mounted on the leading edge of the wing and an Indexer Computer that provides a heads-up display of AoA. The SCc system delivers precise AoA information to help achieve consistent takeoff, climb, cruise, and landing approach performance through an innovative visual display and audio output. Simply stated, the SCc was designed by pilots, for pilots. The system is the most accurate and comprehensive Angle of Attack system available for your aircraft.

Note: The SCc was recently approved for use in certified aircraft. There are no STC's available. Approval is limited to single engine aircraft. Check ''Application Guide'' located on our website to verify eligibility.....P/N 11-13582 ..... ---

RITEANGLE™ BUDDY AOA

The RiteAngle™ Buddy also uses electronics not available during design of the initial RiteAngle™ systems. Although it is similar to the prior RiteAngle systems, for aircraft with no flaps, The RiteAngle Buddy operationally, is a totally new design using an enhanced display.

Note: The Buddy is for aircraft without flaps only.

The RiteAngle™ Buddy is a modern, up to date system that accurately determines your aircraft's angle of attack. This series uses an improved easy-to-understand LED display. This instrument is designed to FAA standards. Green indicates safe, amber indicates caution, and red indicates danger .....P/N 11-06626 ..... ---

Ema AOA Basic And Buddy Sensor.....P/N 11-10392 ..... ---

RITEANGLE™ ELITE SYSTEM AOA

With the RiteAngle Elite system you have the advantage of having a system which was designed to the FAA guidelines for use on certified aircraft, without all the expense of tracking of parts and having it assembled by a PMA facility, and of course not having to pay for the time, effort, and work involved in getting the STC!

The RiteAngle™ Elite is a modern, up dated system that accurately determines your aircraft's angle of attack. Easy to understand - Green Safe, Amber Caution, Red Danger. There are no computed values, the vane actually measures the relative wind.

Ema AOA Small Vane Option.....P/N 11-10390 ..... ---

Ema Elite Enhanced Display Opt .....P/N 11-10391 ..... ---

LIFT MONITOR SYSTEM

Lift Monitor is FAA approved for installation on all GA aircraft, not just experimentals. The low cost of the Lift Monitor and simplicity of installation leave little excuse for not availing yourself of the safety and performance afforded by an AOA system. Working completely independently of all other aircraft systems, installation requires only a log book entry on the part of your mechanic.

Lift Monitor models are available as either a panel mount or glare shield installation. Adapters are provided for existing 2/14" and 3-18" instrument holes. A "Remove Before Flight" protective cover for the probe is included with each system.

Description	Part No.	Price
Monitor System With Panel Mount Kit	05-14964	---
Monitor System With Glare Shield Mount Kit	05-14966	---

STALL WARNING HORN AND LIGHT

Note: Face place for the Model S and Model R are the same

Warns by light and horn of any danger of an approaching stall regardless of the flight maneuver. Never signals unless a stall is imminent. Consists of an instrument panel unit (fits standard 2-1/4" hole) containing a warning horn and signal light, and a small vane wing unit which operates a relay. Operation of the instrument does not depend upon air speed but rather on the air flow conditions of the wing. Complete with installation kit & instructions. Installation time: 26 hrs.

Description	Model	Part No.	Price
Horn & Light	R (12V)	10-22712	---
	S (24V)	10-22724	---

STALL HORN TESTER

Quickly and easily test your stall warning horn without inhaling bugs or putting your mouth on a freezing wing. With the stall warning horn tester you no longer need a ladder to test stall horn on high wing aircraft. It is an FAA requirement that you test the stall warning device before flight. This effective device eliminates the old way of testing the stall horn - by simply depressing the bellow and releasing the bellow "quickly". Instantly, you can tell if the stall warning horn is functioning. Thousands of this product have been sold throughout the world. The compact size allows you to store it in your flight bag or aircraft compartment.

P/N 14-01021 ..... ---

THE REDDISH STALL WARNER

Developed in the UK by Nigel Reddish, these stall warners have been installed in many RV series aircraft. the vane is ground adjustable and installation is simple. Includes a micro switch and vane. For experimental aircraft only.

Note: The Mark 2 Version is practically the same as the Mark 1, the only difference is the vane on the Mark 2 is longer. The installation is the same as the Mark 1.only.

Mark I .....P/N 10-00189 ..... ---

Mark II .....P/N 10-02686 ..... ---

IN

ANGLE OF ATTACK INDICATORS

ALPHA SYSTEMS AOA FALCON KIT

(H: 2.5" D: 1.25" W: 0.865" Weight: Less than 3.00 lbs) Kit Features The Falcon display is a Light Bar Style display with a remote switch panel. With the Falcon display, when you come in for a landing you want to fly to the blue LED (on speed for landing). Should you come in with too low of an angle of attack, the display will illuminate into the yellow, telling you to put your nose up. Should you come in with too high of an angle of attack, the display with illuminate red, telling you to put your nose down.

Standard ..... P/N 11-12667 ..... ---
Pressurized ..... P/N 11-13468 ..... ---
Pressurized Kit With Hud ..... P/N 11-17380 ..... ---
Pressurized Kit With Hud & Mount ..... P/N 11-17379 ..... ---

ALPHA SYSTEMS AOA EAGLE KIT

(H: 2.5" D: 1.25" W: 0.865" Weight: Less than 3.00 lbs) Kit Features - The Eagle Display is a Chevron plus Diamond Style display with a remove switch panel. With the Eagle Display, when you come in for a landing you want to fly to the blue donut (on speed for landing). Should you come in with too low of an angle of attack, the yellow chevron will light up and tell you to put your nose up. Should you come in with too high of an angle of attack, the red chevron will light up and tell you nose down.

Standard ..... P/N 11-12666 ..... ---
Pressurized ..... P/N 11-13466 ..... ---

RITEANGLE™ INTEGRITY AOA SYSTEM FAA

Does the AOA system you are considering automatically correct for 5 positions of flaps? When you lower flaps you lower stalling AOA! Uses a vane like military and airliners. Automatically corrects for up to 5 flap positions. Designed to install easily. Many parts prefabricated. Nothing required to set up you didn't practice prior to solo! Accurate within 1 degree. Enhanced display. Modify your aerodynamics - Simply plug in set-box and reset i.e.: s.t.o.l. modification with stc. A "stand alone system". Does not tie into pitot or static lines.

P/N 11-14300 ..... ---

CALL OR VISIT WWW.AIRCRAFTSPRUCE.COM FOR ADDITIONAL ALPHA SYSTEMS PARTS AND KITS.

GARMIN AOA SYSTEMS

Provides AOA with a single glance during critical flight phases. Intuitive display provides both visual and audible indications of AOA. Normalized AOA provides superior performance in all flight phases. Works with G3X™ systems with GSU 25 and GAP 26 – just add the indicator. Available for installation as a standalone system for GA aircraft.

The GI 260 receives AOA input from a GSU 25 air data computer connected to a GAP 26 probe. Since these are key components of the G3X™ flight display system, pilots of experimental/amateur built aircraft can add the dedicated AOA indicator to their aircraft by connecting as few as 4 wires. For pilots of general aviation aircraft, the GI 260, GAP 26 and GSU 25 can be added as a complete package. A universal inspection plate mount is included to aid in installation.

Description	Part No.	Price
AOA System 14/28 Volt Unheated GAP 26, GI 260, GSU 25	10-05793	---
AOA System 14 Volt Heated GAP 26, GI 260, GSU 25	11-13453	---
AOA System 28 Volt Heated GAP 26, GI 260, GSU 25	11-16608	---

AOA HEATED PROBES

Heated Probe has a built in heater of 12V DC that minimizes the potential for ice build up on the leading edge of the probe. Probe comes complete with high temperature fittings and tubing. It is a drop in replacement and can be used or upgraded in the existing Alpha Systems AOA mounting plate.

12V Heated Probe ..... P/N 11-14694 ..... ---

ALPHA SYSTEMS AOA EAGLE KITS WITH HUD

Flush Mount

The Eagle display is a highly visible, full color, chevron style display. With the chevron display, when you come in for a landing you want to fly to the blue donut (on speed for landing). Should you come in with too low of an angle of attack, the yellow chevron will light up and tell you to put your nose up. Should you come in with too high of an angle of attack, the red chevron will light up and tell you nose down.

FLUSH MOUNT - The flush mount HUD is for pilots that want a lower profile HUD on top of their glare-shield. The switch panel must be mounted in the instrument panel. Intended for placement directly in front of the pilot. Allows for instantaneous viewing of AOA information exactly where needed.

Non Pressurized Standard Kit with HUD .... P/N 11-17377 ..... ---
Non Pressurized Dual Kit with HUD ..... P/N 11-20639 ..... ---
Pressurized Standard Kit with HUD ..... P/N 11-17378 ..... ---
Pressurized Dual Kit with HUD ..... P/N 11-20642 ..... ---

ABOVE DASH MOUNT - The above dash HUD caters to pilots that don't have room under the glare-shield. The display and switch panel are inside the dome that sits on top of the glare-shield. Intended for placement directly in front of the pilot. Allows for instantaneous viewing of AOA information exactly where needed.

Non Pressurized Standard Kit with HUD .... P/N 11-20636 ..... ---
Non Pressurized Dual Kit with HUD ..... P/N 11-20640 ..... ---
Pressurized Standard Kit with HUD ..... P/N 11-20637 ..... ---
Pressurized Dual Kit with HUD ..... P/N 11-20643 ..... ---

ALPHA SYSTEMS AOA FALCON KITS WITH HUD

Above Dash Mount

The Falcon kit has a vertical light bar style display. With the vertical light bar display, when you come in for a landing you want to fly to the blue LED (on speed for landing). Should you come in with too low of an angle of attack, the display will illuminate into the yellow, telling you to put your nose up. Should you come in with too high of an angle of attack, the display will illuminate red, telling you to put your nose down.

FLUSH MOUNT - The flush mount HUD is for pilots that want a lower profile HUD on top of their glare-shield. The switch panel must be mounted in the instrument panel. Intended for placement directly in front of the pilot. Allows for instantaneous viewing of AOA information exactly where needed.

Non Pressurized Standard Kit with HUD .... P/N 11-17379 ..... ---
Non Pressurized Dual Kit with HUD ..... P/N 11-20647 ..... ---
Pressurized Standard Kit with HUD ..... P/N 11-17380 ..... ---
Pressurized Dual Kit with HUD ..... P/N 11-20650 ..... ---

ABOVE DASH MOUNT - The above dash HUD caters to pilots that don't have room under the glare-shield. The display and switch panel are inside the dome that sits on top of the glare-shield. Intended for placement directly in front of the pilot. Allows for instantaneous viewing of AOA information exactly where needed.

Non Pressurized Standard Kit with HUD .... P/N 11-20644 ..... ---
Non Pressurized Dual Kit with HUD ..... P/N 11-20648 ..... ---
Pressurized Standard Kit with HUD ..... P/N 11-20645 ..... ---
Pressurized Dual Kit with HUD ..... P/N 11-20651 ..... ---

ALPHA SYSTEMS ANGLE OF ATTACK INDICATOR ACCESSORIES

Model Number	Description	Part No.	Price
DSTR-AOA-7000K	12VDC Heated AOA Probe	11-14694	---
DSTR-AOA-7001K	24VDC Heated AOA Probe	11-14693	---
AOA-4051	6" Round + 11ft. Additional Hose	11-09304	---
AOA-4046	3.5" Round	11-09303	---
AOA-4150	8" x 4.5" Elliptical + 11ft. Additional Hose	11-09305	---

ALPHA SYSTEMS MERLIN AOA KIT

The Merlin Display is a Light Bar Style display. With the Merlin display, when you come in for a landing you want to fly to the blue LED (on speed for landing). Should you come in with too low an angle of attack, the display will lit into the yellow, telling you to put your nose up. Should you come in with too high an angle of attack, the display will be lit into the red, telling you to put your nose down.

SINGLE DISPLAY -

Non Pressurized ..... P/N 11-13472 ..... ---
Pressurized ..... P/N 11-13473 ..... ---

DUAL DISPLAY -

Non Pressurized ..... P/N 11-20652 ..... ---
Pressurized ..... P/N 11-20653 ..... ---

IN

COMPASSES

AIRPATH COMPASSES

Factory-new Airpath compasses as used in almost all production aircraft. 2.25" size.

Model	Mounting	Lighting	Part No.	Price
C2300	Panel	None	10-01340	---
C2300- S. Hemisphere	Panel	12V Red	10-01342	---
C2300-L4	Panel	12V Red	10-01341	---
C2300-L4- S. Hemisphere	Panel	12V Red	10-01387	---
C2400-L4P	Pedestal	12V Red	10-01343	---
C2400-L4P - S. Hemisphere	Pedestal	12V Red	10-01344	---
C2400-L4VT	Overhead	12V Red	10-01345	---
C2400-L4VT - S. Hemisphere	Overhead	12V Red	10-01346	---
C2200-L4 N. Hemisphere	Cessna "Bonded Bracket"	12V Red	10-00592	---
C2200-L4 S. Hemisphere	Cessna "Bonded Bracket"	12V Red	10-05355	---

BULBS FOR AIRPATH COMPASSES

14V .....P/N 11-04016 .....**--- ea** 28V ..... P/N 11-04015.....**--- ea**

AIRPATH COMPASS REPAIR KITS

Kit consists of diaphragm, 1/2pt of compass fluid & face glass gasket.
Repair Kit (with fluid) .....P/N 10-08000 ..... ---
Repair Kit (without fluid) .....P/N 10-08020 ..... ---
Compass Fluid: 1/2 Pint .....P/N 10-08100 ..... ---
Quart.....P/N 10-08200 ..... ---
Airpath Compass Deviation Card Holder ....P/N 10-01658 ..... ---
Deviation Card.....P/N 10-01659 ..... ---
CB21-914H - Inner gasket .....P/N 10-00505 ..... ---
C21-915G Spacer gasket.....P/N 10-00368 ..... ---
Diaphragm Only .....P/N 10-01386 ..... ---
Glass Compass Lens for C2300/C2400 series compasses.
P/N 10-08010 ..... ---

ECONOMY COMPASS SEAL KITS

Kit without fluid - includes: (2) Gaskets, (1) Deviation Card, (1) Diaphragm..... P/N 10-04943..... ---
Kit with Fluid - includes: (2) Gaskets, (1) Deviation Card, (1) Diaphragm, (1) 1/2pint Compass Fluid .. P/N 10-04944..... ---

C2400 SERIES COMPASS HOUSINGS

C24-730A Housing for C2400L4P Top Panel Mount
P/N 10-04696 ..... ---
C24-727A Housing for C2400L4VT Windshield Mount.
P/N 10-04697 ..... ---

C2400 W/R INNER CASE

This is inner case compass only. Designed to fit Airpath 2-1/4" as replacement only (for models 2400-L4VT, C2400-L4P).....P/N 10-04718 ..... ---

FALCON AIRCRAFT COMPASSES

These compasses are very similar to the Airpath C2300 & C2400 style compasses above but are priced more economically. New manufacture. Not certified. Made in China.

Size	Model No.	Description	Part No.	Price
Northern Hemisphere				
2-1/4"	MCPN-2L	Panel Mount, Lighted	10-02069	---
2"	MCDN-2	Pedestal Mount	10-02071	---
2"	MCDN-2L	Pedestal Mount, Lighted	10-02070	---
Southern Hemisphere				
2-1/4"	MCPS-2	Panel Mount	10-02068	---
2-1/4"	MCPS-2L	Panel Mount, Lighted	10-02243	---
2"	MCDS-2	Pedestal Mount	10-01704	---
2"	MCDS-2L	Pedestal Mount, Lighted	10-05220-SO	---

FALCON VERTICAL CARD COMPASSES

It is easy to read presentation and see the complete 360 degree dial in proper relation to your aircraft heading. 14V, lighting. 2-1/4". Made in China.

Model	Description	Part No.	Price
MCVC-2L-A	N. Hemisphere Compass Only	10-05276	---
MCVC-2L-A-M	N. Hemisphere Compass & Bracket	10-04174	---
MCVC-2SL-A	S. Hemisphere Compass Only	10-04489	---
MCVC-2SL-AM	S. Hemisphere Compass & Bracket	10-04490	---
30-V-0001	Vertical Card Compass Universal Mounting Bracket	10-04175	---

PRECISION AVIATION COMPASS KEY

Precision Aviation PD-1 Compass Key.
P/N 10-06424 ..... ---

PRECISION VERTICAL CARD COMPASS

It is a dry compass, designed to replace the float/liquid type compass; no more leaking fluid or backward azimuth readings. It uses eddy current damping and as such has no overshoot. It consists of a 2"vertical rotating dial which is compared with a fixed miniature airplane (lubber line) to present the magnetic heading of the aircraft at all times. Heading information is more natural because the heading is read at the 12 o'clock position and off the nose of the miniature aircraft. The compass card rotates and presents all quadrants in their true relation to line of flight. Requires no power (except for lighting) to operate. Fully TSO'd. Installed in many current production aircraft and helicopters. Size: 2-7/8"H x 2-3/8"W x 2-1/8"D. Wt. 0.6 lb. After installation, compass must be compensated using standard compensation procedures.

Bracket / mount is required for installation and is not included with unit.

Northern Hemisphere 14V.....P/N 10-00421 ..... ---
Northern Hemisphere 28V.....P/N 10-00423 ..... ---
Southern Hemisphere 14V.....P/N 10-00422 ..... ---
Southern Hemisphere 28V.....P/N 10-00424 ..... ---

PAI-700 COMPASS REPLACEMENT LIGHT ASSEMBLY

14V .....P/N 10-00092 ..... ---
28V .....P/N 10-00093 ..... ---
5V Light Assy. .....P/N 10-02956 ..... ---

PRECISION COMPASS MOUNTS

PACMG-2 – Universal mount for many aircraft using a glare shield or deck mount. Models include Beech Baron and Bonanza, Cessna Skyhawk, Skylane and Cardinal.....P/N 10-07500 ..... ---
PACMO-U – Universal overhead bracket kit for customer adaptation.
P/N 10-07600 ..... ---
PACMO-CESNO – Custom mount for several Cessna models using one-piece windshield & compass mounting block. Models include Cessna 150,152,170,180,182,185 & 210....P/N 10-07700 ..... ---
PACMO-PIPER – Custom mount for several Piper models with 5/8" hat-section center windshield post. Models include Piper Cherokee, Warrior, Arrow, Archer, Lance, Comanche, Navajo & Cherokee Six.
P/N 10-07800 ..... ---
PACMO-APZ21 – Custom mount for use in Piper Apache, Aztec, & Cessna 421. .....P/N 10-07910 ..... ---
PACMO-SRN – Custom mount for use in Beech Sierra using windshield mount.....P/N 10-07920 ..... ---
PACMO-KA – Beech King Air.....P/N 10-07921 ..... ---
PACMO-EB – Early Bellanca. Compass mounted overhead.
P/N 10-07922 ..... ---
PACMO-LB – Late Bellanca. Compass mounted on windshield.
P/N 10-07923 ..... ---
PACMO-2CN – Cessna early 172, 182 with compass mounted on windshield with 1" center with 1" divider strip.....P/N 10-07924 ..... ---
PACMO-340R – Cessna 340 Twin. .....P/N 10-07925 ..... ---
PACMO-310R – Cessna 310.....P/N 10-07926 ..... ---
PACMO-GTR – Grumman Tiger, Cheetah .P/N 10-07936 ..... ---
PACMO-MHN – Mooney compass mounted on housing covering center post.....P/N 10-07927 ..... ---
PACMO-HMN – Mooney compass mounted on center post with horizontal screws. .....P/N 10-07928 ..... ---
PACMO-VMN – Mooney compass mounted on center post with vertical screws. .....P/N 10-07929 ..... ---
PACMO-PCN – Comanche with no center post use PACMG-2, twin, SE.
P/N 10-07931 ..... ---
PACMO-R22 – Robinson R22. .....P/N 10-07932 ..... ---
PACMO-R44 – Robinson R44. .....P/N 10-07933 ..... ---
PACMO-RV6C – RV6 kit. (Sliding Canopy only, not tip-up)
P/N 10-07934 ..... ---
PACMO-HSN3A – 32.50 40.63 Schweizer 300 & 300 CB.
P/N 10-07935 ..... ---
PACMO-3/4P – w/ a 3/4" post .....P/N 10-00426 ..... ---
PACMO-5/8P – w/ a 5/8" post .....P/N 10-00431 ..... ---
PACMO-7/8P – w/ a 7/8" post .....P/N 10-00432 ..... ---

COMPASS COMPENSATOR

Very sensitive to stray magnetic fields within the aircraft. If the compensators of the compass will not bring the compass within tolerances, it will be necessary to install the PBB475 compensator ("balanced balls"). These balls contain magnets which permit the compass to be properly compensated. Instructions furnished.
P/N 10-07900 ..... ---

MAGNETIC COMPASS SHIELD

Use this .005" x 5" x 12" metal strip to shield the precision PAI-700 compass from magnetic interference in the instrument panel .....P/N 11-00973 .....

NON-MAGNETIC SCREWDRIVER FOR COMPASSES

This small non-magnetic screwdriver blade is ideal for adjusting magnetic compasses. This blade is durable, corrosion resistant, & can be put on a key chain until needed ..... P/N 10-07930 ..... ---

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SIRS "PEGASUS" LIT (TSO'D)

Utilizes high quality components throughout, including Silicone rubber seals, metal expansion bellows, and Tungsten Carbide pivots. Has a high-visibility spherical display, and can be viewed over a 140° arc instead of the standard 90°. Fits standard 2-1/4" panel hole (by 2-1/4" deep) and weighs only 30% of a typical liquid compass. Blue/white lighted or unlighted versions, and has a 3-yr. warranty.

NORTHERN HEMISPHERE		
Voltage	**Part Number**	**Price**
12V	10-00498	---
28V	10-00946	---
SOUTHERN HEMISPHERE		
Voltage	**Part Number**	**Price**
12V	10-02136	---
28V	10-02137	---

SIRS "NAVIGATOR" (TSO'D)

Delivers extremely accurate readings due to its fully integrated, 4 magnet correction facility. Same features as "Pegasus", but is mounted with a fully adjustable bracket. This allows the compass to be mounted in a variety of positions located away from magnetic influences. Size: 20-3/8"h x 2-1/4"w. "Navigator" comes in lighted or unlighted versions; 3yr. warranty.

NORTHERN HEMISPHERE					
Part No.	**Light**	**Price**	**Part No.**	**Light**	**Price**
10-00496	None	---	10-00949	28V Blue	---
SOUTHERN HEMISPHERE					
Part No.	**Light**	**Price**	**Part No.**	**Light**	**Price**
10-02129	None	---	10-02131	28V Lit	---

NAVIGATOR MOUNTING BRACKETS & ACCESSORIES

Description	Part No.	Price
Install Kit for Pegasus Compass	10-02124	---
MF1 Short foot (self adhesive)	10-00277	---
Glareshield Mount for SIRS Nav Compasses	10-00276	---

SIRS NAVIGATOR NV2-2400X

Designed to be installed on the glareshield using the same location holes required for other compass installations. Features silicone seals. The display shows 140° of heading, as opposed to the 90° view offered by standard compasses. TSO'd Navigator comes in 6, 12, & 28V configurations, with a 3 year warranty.

Northern Hemisphere		
Description	**Part No.**	**Price**
NV2A-2400 Unlit Compass	10-00401	---
NV2C-2400 Lit Compass 28V	10-00468	---
Southern Hemisphere		
Description	**Part No.**	**Price**
NAV TSOD Compass 28VLIT SH	10-02131	---
NAV NV2A-2400 Unlit Compass SH	10-02132	---
NV2C-2400 Lit Compass 28V SH	10-02134	---
NAV TSOD Compass Unlit SH	10-02129	---
Accessories	**Part No.**	**Price**
Install Kit Nav. Series Compass	10-02123	---

SIRS MASTER COMPASS

Graduated in 1/2 degree intervals and the compass is supplied with a calibration chart indicating any deviations in minutes of arc. Ideal for use with larger aircraft. A special reverse-read version (954-2399REV) is available to indicate the same headings as those read from the aircraft instruments during the compass swing operation, when viewing from the front of the aircraft. Magnetic headings are viewed through a magnified prism and a special mounting Tripod is available (non-magnetic tripod) to ensure steady readings P/N 10-04231 Warranty: 3 years Accuracy: Better than 30 Minutes Tilt: 7 Degrees

Standard Compass.....P/N 10-04230 ..... ---
Reverse Read Compass .....P/N 10-04817 ..... ---
Tripod .....P/N 10-04231 ..... ---

SIRS HAND HELD PRISMATIC MASTER COMPASS

Designed to meet demanding requirements of the Aviation and Military environments where accurate bearings are required. Supplied with a calibration certificate and can be configured with reversed readings to assist with aircraft wings. Ideal for use with small to medium aircraft. The liquid damped card is divided in 2 degree increments. Warranty: 3 years. Dial Markings: DegreesTilt: 15 Degrees.

Standard Compass.....P/N 10-04232 ..... ---
Reverse Read Compass .....P/N 10-04816 ..... ---

BARFIELD SIGHT CALIBRATION COMPASS

The SC063 is used to check the mounted aircraft compass. Our sight compass, is a portable, self contained calibration device consisting of a modified aircraft compass which has been re-screened to indicate 180° from normal. Since the sight compass is 180° away from normal, it permits the operator to stand facing the aircraft, making it considerably easier to transmit signals to and from the aircraft cockpit. The SC063 is unique in that the compensating magnets have been removed and a combination magnifying lens and collimating sight added. The compensator has been removed so the compass indicates magnetic direction at all times and is not subject to calibration offsets. The magnifying lens increases the readability of the dial and the collimating lens insures precise sighting alignment. Attached to the rear of the compass is an adjustable sight lens. .....P/N 10-05357 ..... ---

ARP CARBURETOR ICE DETECTION SYSTEM

Made in USA. Available in three (3) different mounting configurations (Panel Mount, Remote Mount and Universal Mount) thus providing flexibility for any aircraft installation. GIVES UP TO 5 MINUTES WARNING TIME by illuminating a RED visual ice warning light. LIGHT WEIGHT less than 13 ounces. SIMPLIFIED INSTALLATION keeps installation cost down – approx. 1 to 3 man-hours. WARRANTY 3-Years on Electronics Box and 1-Year on Probe. FAA-STC SA489EA APPROVED for normal, utility and acrobatic airplanes and helicopters equipped with Continental, Franklin and Lycoming type engines and Precision Air-Motive (Facet or Marvel-Schebler) MA-2, MA-3, MA-3A, MA-3SPA, MA-4, MA-4-5, MA-4SPA, MA-5, MA-6, MA-6AA and HA-6 series carburetors. Installation on other aircraft not specified on the STC may be performed via FAA Form 337. FAA-PMA APPROVED for installation on Type Certificated aircraft.

Panel Mount, 12V (107AP-12).....P/N 10-09900 ..... ---
Panel Mount, 24V (107AP-24).....P/N 10-07363 ..... ---
Remote Mount, 12V (107AP-R-12) .....P/N 10-03708 ..... ---
Remote Mount, 24V (107AP-R-24) .....P/N 10-03709 ..... ---
Universal Mount, 12V (107AP-U-12).....P/N 10-03697 ..... ---
Universal Mount, 24V (107AP-U-24).....P/N 10-03698 ..... ---
Spare Probe (107AP-P).....P/N 10-03710 ..... ---

FLIGHT DATA SYSTEMS FC-10 WITH FT-60 TRANSDUCER

Flow: Instantaneous Display of Fuel Flow • Used: Fuel Used • Remaining: Fuel Remaining • Endurance: Time or Distance Remaining • Required: Fuel Required to Active GPS Waypoint • Reserve: Fuel or Time Remaining at Active GPS Waypoint • Efficiency: Miles Per Gallon (or Liter) Displays Fuel Flow and Fuel Used for Each Engine (Two Engine Systems)

Features: Communicates with Handheld or Panel Mount GPS • User Selectable Units (Gallons, Liters, Nautical Miles, Statute Miles) • Low Fuel Warning • Best Fuel Computer Value Available • Large Extreme Operating Temperature Display • Soft Orange Backlight with Automatic Brightness • 2-1/4" Panel Mount • Weighs 2.6oz, 12-28 Volt Compatible • Includes EI FT 60 (less than 350 HP - Fuel Pump) • Includes Pre-Wired Harness • Connector is pin to pin compatible with many JPI, Hoskins, and Shadin Systems.

FC-10 Single Engine (additional sender req.) ..P/N 10-03150 ..... ---
FC-10 Twin Engine.....P/N 10-03151 ..... ---
FC-10 Without Sender.....P/N 10-03152 ..... ---

FLIGHT DATA SYSTEMS AFP-30 FUEL COMPUTER

Designed for the experimental aircraft owner who wants instantaneous flight information previously reserved only for transports and private jets. Features complete Winds Aloft information, Airspeed information including: True Airspeed and Mach number, Altitude information such as Density Altitude and Vertical speed, and both Total and Saturated Air Temperature. Complete with GPS communication enabling it to display fuel computer data. The Performance Computer function calculates, instantaneously, Percent Horsepower based on the engine manufacturer's power chart. Backup Tachometer and Manifold Pressure indications. Compatible with most handheld and panel mount GPS units .. P/N 10-03154 ..... ---

IN

MID-CONTINENT INSTRUMENTS AND AVIONICS CARBURETOR TEMPERATURE INDICATORS

The MD-11 carburetor temperature gauge & B-5 temp. probe are designed to help eliminate carburetor icing by early detection, reduce spark plug fouling, extend engine life, increase range & power, and maximize fuel economy. Designed for use with most Marvel-Schebler & Bendix float type carburetors. FAA approved. Mounts in 2-1/4" instrument hole.

28V carb air temp indicator only .....P/N MD-11-4 ..... ---
B-5 probe only .....P/N B-5 ..... ---
Mating Connector .....P/N 10-01563 ..... ---
28V Carburetor Air Temperature Kit .....P/N 10-02760 ..... ---

2-1/4" UMA MANIFOLD PRESSURE GAUGES

Manifold pressure is one factor used to obtain correct power setting of the engine. The indicators are temperature and altitude compensated. Matte-white dials. Units are new. Manufactured by UMA.

2-1/4" Gauge, 10-50 Hg .....P/N 10-11200..... ---
2-1/4" Gauge, 10-35 Hg .....P/N 10-11250..... ---
UMA optional internal lighting ..P/N 11-07239..... ---

3-1/8" UMA MANIFOLD PRESSURE GAUGES

3-1/8" Gauge, 10-35Hg. ..... P/N 10-00080 ..... ---
3-1/8" Gauge, 10-50Hg. ..... P/N 10-11300 ..... ---
UMA optional internal lighting .. P/N 11-07239 ..... ---

P/N 10-00080

FALCON 3 1/8" MANIFOLD PRESSURE GAUGE

Falcon Gauge Manifold Pressure Gauge is designed and manufactured for use on aircrafts and is a standard diaphragm pressure instrument. This indicator is temperature and altitude compensated. Manifold pressure is one of the factors required to obtain the correct power setting of the aircraft engine. Made in China.

10-35 IN HG.....P/N 10-02270 ..... ---

UNITED TSO'D MANIFOLD PRESSURE GAUGES

Range	Part Number	Price
10 TO 35	10-05452	---
10 TO 35	10-05453	---
10 TO 50	10-05454	---
10 TO 50	10-05455	---
10 TO 75	10-05456	---
10 TO 75	10-05457	---

UMA FUEL/AIRBOX DIFFERENTIAL PRESSURE GAUGE

Displays the differential pressure between the fuel system and air box on turbo charge engines where it is necessary to maintain constant fuel pressure that is above the airbox pressure. Sender sold separate. (Requires the use of a 1EU007D UMA different pressure sneder.)

1 1/4".....P/N 10-00979 ..... ---
Sender 0-7 PSI .....P/N 10-00980 ..... ---

ROCHESTER OIL PRESSURE GAUGE

Rochester oil pressure gauges have matte-white dial with black bezel. Mount in 2-1/16" dia. hole. 1/8" NPT port fits AN910-1D coupling. New mfg.

0-80 PSI*.....P/N 10-00015 ..... ---

***Chrome Bezel**

UMA 1 1/4" MINI WATER PRESSURE GAUGE

Range	Part Number	Price
(-5)-25 PSI	10-22241	---
(-15)-15 PSI	10-22248	---

ROCHESTER OIL TEMPERATURE GAUGES

Rochester oil temperature gauges have matte-white dial with black bezel. Mount in 2-1/16" dia. hole. New manufacture. Furnished with one 5/8-18UNF X 5/8-18UNF adapter nut. Available in the following temperature ranges and capillary lengths.

P/N 10-11600 ..... 100-250°F..... 60" Cap..... ---
P/N 10-11700 ..... 100-250°F..... 72" Cap..... ---
P/N 10-11800 ..... 100-250°F..... 144" Cap..... ---
P/N 10-11900 ..... 100-250°F..... 48" Cap..... ---
Adapter Nuts Only:.....44-0024 5/8-18UNF x 5/8-18UNF..... ---

MCI OVERHAULED MANIFOLD PRESSURE GAUGE

The manifold pressure indicator is used in aircrafts to indicate the absolute pressure of the aircrafts engine intake measured in inches of mercury.

• **Model:** 6111D.22 • **Range:** 10-35 inch hg • **Size:** 3-1/8"
• **Weight:** 13.5oz or 386g..P/N 10-07284 ..... ---

OIL TEMPERATURE BULB ADAPTER

Brass fitting used to shorten long capillary bulbs for use in light aircraft engines. Internal 5/8-18 threads mate with fitting on bulb. External 5/8-18 threads fit into engine

P/N 95527 ..... ---

MILITARY OIL PRESSURE GAUGE

AN5771-2 Military style gauge with sq. case. Mounts in 2-1/4" dia. hole. New surplus. Matte-White Dial (0-150 PSI) .....P/N 10-00955 ..... ---

DIGITAL PANEL VOLTMETER 6-30V

The Got Your Six Panel Voltmeter is a convenient 2.9cm diameter hole-mount voltage measurement device (same size and matching design as our USB Power Panel Mount Adapter!) that accurately displays voltage to 2 decimal place accuracy under 10 volts, or 1 decimal place between 10V and 30V. Super bright LED's makes it easy to read in daylight operations. Have confidence in knowing your aircraft or experimental airplane charging system is working properly!.....P/N 10-07505 ..... ---

OIL PRESSURE INSTALLATION KIT

This kit contains 4 Weatherhead brass fittings with 1/8" pipe thread & 6 ft. of 1/8" Nylo-Seal tubing. Compatible with most mechanical oil pressure gauge installations.

P/N 10-12000 ..... ---

RV-12 REMOTE OIL PRESSURE SENSOR MOUNTING KIT

A new remote oil sensor kit for the Rotax 912 engine. While the lengths of this package are designed specifically to fit an RV-12, the hose length should work in virtually any 912 installation ..... P/N 05-11919 ..... ---

CESSNA OIL TEMPERATURE SENSOR S1630-1

ECCN: EAR99 **Weight**: 0.12 Pounds **Dimensions** : 2.25 (L) x 0.8 (W) x 0.85 (H) Inches .....P/N 05-27562 ..... ---

MS28034-3 ENGINE TEMPERATURE SENSOR

Presently in use in government and general aviation industry under liquid and gaseous conditions, this sensing device exceeds stringent U.S. Military Specifications for response time, burst pressure, and AC high potential tests P/N 10-01668 ..... ---

KELLY MANUFACTURING TORQUE INDICATORS

Torque Indicators are a wet line, direct reading bourdon tube type instru-ment, housed in a 2" diameter case. Unit can be calibrated over a wide rage of PSI input to direct read torque. Units can be furnished to your specifications. Indicate needed pressure input and pressure-to-torque conversion. This unit cannot be damaged by oil back up in vent line. **Dimensions**: 2" diameter x 2.125" length, **Weight:** 0.4 lbs, **Power:** Wet line direct reading pressure gage

Model No	Description	Part No.	Price
27-3007-1	0 to 1800 FT/LB, Green Arc 0 - 1628, Red Line at 1628	10-03441	---
27-3007-7	0 to 75 PSI 0 to 53	10-03443	---

KELLY MANUFACTURING OIL TEMPERATURE INDICATOR

Housed in a 2" diameter case, this instrument can be calibrated in C° or F°. Oil Temperature is sensed by a MS28034-1 resistance bulb. **Dimensions:** 2" Dia. x 3.12" L Weight: 0.4 lbs Power: 28VDC Connector: MS3112E8-4P **29-1004-10 -** Green Arc 0° C -110° C, Yellow Arc -40° C - 0° C Red Line -40° & 110° C

P/N 10-03445 ..... ---

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

UMA ENGINE GAUGES

UMA 2-1/4" SINGLE EGT GAUGES

These highly reliable and lightweight gauges are self-contained, requiring no external power source. Specify probe size and type. Standard markings are black and white.

P/N 10-22275

2-1/4" EGT Gauge

700-1700°F- 90° Sweep...P/N 10-22275 ..... ---
700-1700°F- 270° Sweep..P/N 10-02427 ..... ---

Type K EGT Probes

1-5/8" - 2-1/2" Clamp.....P/N 10-04791 ..... ---
1-2" Clamp .....P/N 10-00966 ..... ---
8mm, Bayonet-Rotax .....P/N 10-00967 ..... ---
Optional internal lighting for all UMA 2-1/4", 3-1/8" instruments (except altimeter)... P/N 11-07239 ..... ---

UMA 2-1/4" CHT GAUGES

NON-TSO GAUGES

Probe/Range	Part No.	Price
UMA ProbeRange: 100-300°F	10-05709	---
UMA Probe Range: 40-150°C	10-05710	---
VDO Probe Range: 40-150°C	10-05712	---
Thermocouple Type J Range: 100-600°F	10-05713	---
Thermocouple Type J Range: 50-300°C	10-05714	---

TSO GAUGES

Probe/Range	Part No.	Price
MA 1BX Thermistor Probe Range: 40-150°F	10-05716	---
MA 1BX Thermistor Probe Range: 100-300°F	10-05717	---
VDO Probe Range: 100-300°F	10-05718	---
Type J Thermocouple Probe Range: 50-300°C	10-05719	---
Type J Thermocouple Probe Range: 100-600°F	10-05720	---

Senders not included witht the above 2-1/4" CHT Gauges.

UMA 2-1/4" EGT GAUGES

NON-TSO GAUGES

Probe/Range	Part No.	Price
700-1700 F Type K Sender Req.	10-05699	---
1000-2000 F Type K Sender Req.	10-05701	---
100-900 C Type K Sender Req.	10-05698	---

TSO GAUGES

Probe/Range	Part No.	Price
2-1/4 TSO EGT 100-900 C Type K Sender Required	10-05706	---
2-1/4 TSO EGT 400-1700 F Type K Sender Required	10-05707	---

UMA 2-1/4 INCH EGT GAUGE WITH OPTI ALERT

The 2 1/4", 270°, Opti-Alert warning instruments. signal the pilot when there is a problem by illuminating a Light Emitting Diode (LED). This warning indicates that an improper range condition has arisen. Operate with a 14V or 28V system. Pressure and temperature gauges use remote mounted sensors which are sold separate.

Description	Part No.	Price
100-900 C W/ Opti Alert Type K Sender Req.	10-05702	---
700-1700 F W/ Opti Alert Type K Sender Req.	10-05704	---
1000-2000 F W/ Opti Alert - Type K Sender Req.	10-05705	---

UMA 2-1/4" WATER TEMPERATURE GAUGE

This instrument is designed to be durable yet lightweight. Excellent for a wide variety of homebuilt aircraft applications. Made in USA. Order probe separately.

0-300°F .....P/N 10-02058 ..... ---

Probes

1/8" NPT (Rotax).....P/N 10-00968 ..... ---
3/8-24 (automotive).....P/N 10-00969 ..... ---

UMA 2-1/4" OIL TEMPERATURE GAUGE

This instrument is designed to be durable yet lightweight. Excellent for a wide variety of homebuilt aircraft applications. Made in USA. Order probe separately.

100-300°F .....P/N 10-22285 ..... ---

UMA OPTIONAL INTERNAL LIGHTING - Optional internal lighting for all UMA 2-1/4", 3-1/8" instruments (except altimeter). This is just a lighted option. Order the instrument in addition to the internal lighting.

P/N 11-07239 ..... ---

UMA 2-1/4 INCH ELECTRICAL OIL PRESSURE TACH

0-130 PSI ROTAX 912/914

UMA 2-1/4 Inch Electrical Oil Press Tach 0-130 PSI Rotax 912/914. 2 1/4" Air Core (270° Sweep)

P/N 10-05510 ..... ---

MECHANICAL UMA 2-1/4" FUEL PRESSURE GAUGE

These factory new fuel pressure gauges from UMA fit standard 2-1/4" panel hole. They are mechanical, wet-line gauges and require no sending unit.

0-25 PSI .....P/N 10-02356 ..... ---
0-50 PSI .....P/N 10-00316 ..... ---
0-10 PSI .....P/N 10-22201 ..... ---
0-30 PSI .....P/N 10-22203 ..... ---
0-100 PSI .....P/N 10-22205 ..... ---

MECHANICAL UMA 2-1/4" OIL PRESSURE GAUGE

These factory new oil pressure gauges from UMA fit standard 2-1/4" panel hole. They are mechanical, wet-line gauges and require no sending unit.

0-50 PSI .....P/N 10-22240 ..... ---
0-130 PSI .....P/N 10-22242 ..... ---
10-100 PSI .....P/N 10-02357 ..... ---

UMA 1" WATER PRESSURE GAUGE

This mechanical, direct hook-up pressure indicator is ideal for monitoring the engine pump cooling system. Suitable to a wide variety of homebuilt aircraft applications. Made in USA. 0-10 PSI (water)

P/N 10-22247 ..... ---

UMA 1" OIL PRESSURE GAUGE

Case is molded ABS plastic. Wt:1.4oz. Black and white dial markings. 25-125 PSI.

P/N 10-22251 ..... ---

UMA 1" FUEL PRESSURE GAUGE

Case is molded ABS plastic. Wt:1.4oz. Black and white dial markings. 0-10 PSI....P/N 10-22252 ..... ---

MECHANICAL UMA 2 1/4" WATER PRESSURE GAUGE

This mechanical, direct hook-up pressure indicator is ideal for monitoring the engine pump cooling system. Suitable to a wide variety of homebuilt aircraft applications. Made in USA. -15 to +15 PSI

P/N 10-22249 ..... ---

2-1/4 INCH UMA WATER TEMPERATURE 100-300F

2-1/4 inch UMA Electronic (UMA P/N 12-360-300F°) Water Temperature Gauge, Range: 100-300 deg. F°

P/N 10-02058 ..... ---

UMA 2 1/4" FLAP POSITION INDICATOR

This 2-14" flap indicator uses a resistance potentiometer as a flap position sensor. Transmitter required. Wt: 9.8 oz.

Indicator (0-40°) .....P/N 10-22250 ..... ---
Indicator (0-60°) .....P/N 10-02442 ..... ---
Transmitter .....P/N AN5785 ..... ---

UMA OPTIONAL INTERNAL LIGHTING

Optional internal lighting for all UMA 2-1/4", 3-1/8" instruments (except altimeter). This is just a lighted option. Order the instrument in addition to the internal lighting. .....P/N 11-07239 ..... ---

MINI OIL PRESSURE GAUGE

Miniature mechanical instrument, only 1-1/4" dia., as used in many production aircraft. New manufacture.

0-125 PSI Oil Press. .....P/N 10-12400 ..... ---

MINI FUEL PRESSURE GAUGES

1-1/4" Dia. New manufacture by UMA.

0-10 PSI Fuel Press.....P/N 10-12100 ..... ---
0-35 PSI Fuel Press.....P/N 10-12200 ..... ---
0-50 PSI Fuel Press.....P/N 10-12300 ..... ---

UMA 3 IN 1 ELECTRONIC INSTRUMENT

Combine any three electronic instruments into a 3-1/8" case. Standard product is with black and white dials, but custom range markings are available to meet customer demand for specific design.

***Note - Senders are required and sold separately.**

P/N 10-03452 ..... ---
UMA Range Markings .....P/N 10-02792 ..... ---

IN

UMA ENGINE GAUGES

2-1/4 inch UMA Electronic Oil Pressure Gauge Case: Valox 420 Plastic Weight: 4.7 oz.

UMA 2-1/4" ELECTRONIC OIL PRESSURE 270°GAUGE

Electronic Oil Pressure Gauges connect to a pressure transducer and connects to the gauge with wires. Standard dial markings are black and white.

2-1/4", 0-60 PSI, TSO'd ... P/N 10-02415 ... ---
2-1/4", 0-80 PSI, TSO'd ... P/N 10-02416 ... ---
2-1/4", 0-100 PSI, TSO'd . P/N 10-02417 ... ---
2-1/4", 0-100 PSI ... P/N 10-02424 ... ---
2-1/4", 150 PSI ... P/N 10-02761 ... ---

SENDER NOT INCLUDED
SEE NEXT PAGE FOR SENDERS

DATCON OIL PRESSURE SENDER

Thread sizes: 1/8"-27 NPTF, #10-32 terminals, Common ground through mounting thread, 0-80 psi/0-5 bar range and 240-33.5 Ohms. ... P/N 10-05329 ... ---

2-1/4 inch UMA Electronic Fuel Pressure Gauge Case: Valox 420 Plastic Weight: 4.7 oz.

UMA ELECTRONIC FUEL PRESSURE 270°GAUGE

Electronic Fuel Pressure Gauges connect to a pressure transducer and connects to the gauge with wires. Standard dial markings are black and white.

2-1/4", 0-7 PSI, TSO'd ... P/N 10-02412 ... ---
2-1/4", 0-15 PSI, TSO'd ... P/N 10-02413 ... ---
2-1/4", 0-60 PSI, TSO'd ... P/N 10-02414 ... ---
2-1/4", 0-30 PSI ... P/N 10-02422 ... ---

SENDER NOT INCLUDED
SEE NEXT PAGE FOR SENDERS

2-1/4 inch UMA Electronic Hydraulic Pressure Gauge Case: Valox 420 Plastic Weight: 4.7 oz.

UMA ELECTRONIC 2-1/4" HYDRAULIC PRESSURE 270° GAUGE

Electronic Hydraulic Pressure gauge connects to a precision, high pressure transducer which mounts directly to the aircraft's hydraulic system. Standard markings are black and white. 2-1/4", 0-2000 PSI, TSO'd ... P/N 10-02459 ... ---

SENDER NOT INCLUDED
SEE NEXT PAGE FOR SENDERS

2-1/4 inch UMA Electronic Oil Temperature Gauge Case: Valox 420 Plastic Weight: 4.8 oz.

UMA 2-1/4" ELECTRONIC OIL TEMPERATURE 270° GAUGE TSO'D

These rugged aircore gauges work with either thermocouple or thermister probes. Standard markings are black and white.

100-300° F, TSO'd ... P/N 10-02443 ... ---

SENDER NOT INCLUDED
SEE NEXT PAGE FOR SENDERS

P/N 10-02057

UMA ELECTRONIC 2-1/4" CHT 270° GAUGE

These gauges are available for either thermocouple or thermistor probes. Standard markings are black and white.

2-1/4", 100-300 °F - compatable with VDO P/N 10-02426 ... ---
2-1/4", 100-600 °F - 90° sweep for use with thermocouple powered aircraft ... P/N 10-02429 ... ---
2-1/4", 100-600 °F - 270° sweep for use with internal powered aircraft P/N 10-02057 ... ---

TYPE J CHT PROBES

10mm Spark Plug Ring ... P/N 10-00960 ... ---
12mm Spark Plug Ring ... P/N 10-00961 ... ---
14mm Spark Plug Ring ... P/N 10-00962 ... ---
18mm Spark Plug Ring ... P/N 10-00963 ... ---

UMA TSO'D TEMPERATURE PROBES

T3B1 1/8 NPT TSP Type K with 6' Lead ... P/N 10-05164 ... ---
T3B2 3/8-24 TSO Type K with 6' Lead ... P/N 10-05165 ... ---
T3B3 5/8-18 TSO Type Kwith 6' Lead ... P/N 10-05166 ... ---
T3B3A 5/8-18 TSO Type Kwith 6' Lead ... P/N 10-05167 ... ---
T3B11 1/4-18 TSO Type Kwith 6' Lead ... P/N 10-05168 ... ---

UMA ELECTRONIC 2-1/4" WATER TEMPERATURE 270° GAUGE

2-1/4 inch UMA Electronic (UMA P/N T12212U300-F000) Water Temperature Gauge Range: 100-300°F TSO2-1/4", 100-300°F TSO'd.

P/N 10-02428 ... ---

UMA ELECTRONIC 2-1/4" CARBURETOR AIR TEMPERATURE 270° GAUGE

These gauges use either thermistor or electronic sensors. Standard markings are black and white.

2-1/4", -60-120 °F TSO'd... P/N 10-04670 ... ---
2-1/4", -20-120 °F ... P/N 10-02391 ... ---

UMA TSO'D 2-1/4 CARBURATOR AIR TEMPERATURE GAUGE

TSO'd Carburetor Temperature 2 1/4" gauge. Range from -60 - 120°F. **Note:** This is the standard black and white gauge. For color range markings as shown you must add the color range markings part no. to your order ... P/N 10-03465 ... ---

UMA Color Range Markings ... P/N 10-02792 ... ---

UMA 2-1/4" ELECTRONIC MANIFOLD PRESSURE 270° GAUGE

Electronic Manifold Pressure gauges connect to a pressure transducer which connects to the aircraft's engine and indicates the absolute pressure in the intake manifold of the aircraft. These units are very precise and avoid plumbing issues. Standard markings are black and white.

2-1/4", 5-35 IN. HG. ... P/N 10-02389 ... ---
2-1/4", 5-50 IN/ HG. ... P/N 10-02390 ... ---

SENDER NOT INCLUDED SEE NEXT PAGE FOR SENDERS

UMA 2-1/4" ELECTRONIC OUTSIDE AIR TEMPERATURE

The digital Outside Air Temperature (O.A.T.) is available in either Fahrenheit or Celsius. Standard models use a Red LED display.

2-1/4", -40-60 °C, 270° ... P/N 10-02387 ... ---
2-1/4", -40-140 °F, 270° ... P/N 10-02388 ... ---

SENDER NOT INCLUDED SEE NEXT PAGE FOR SENDERS

UMA DUAL AMP/VOLTMETERS

These 2-1/4" dual amp voltmeters are ideal for any aircraft where panel space is limited. Amperage is displayed at all times, and simply push a button to display voltage. Complete with gauge and shunt. Voltage range 0-30 volts.

Range: 30 amp ... P/N 10-14680 ... ---
60 amp ... P/N 10-14685 ... ---
80 amp ... P/N 10-14690 ... ---
100 amp ... P/N 10-14695 ... ---
0-150 amp ... P/N 10-00082 ... ---

UMA Optional internal lighting ... P/N 11-07239 ... ---

AMMETERS

These new manufactured ammeters offer accuracy, rugged construction, and contemporary styling. Made in U. S. A. Furnished with shunt. Size: 2-1/4".

Range: 0-30 (0 center) ... P/N 10-14650 ... ---
0-60 (0 center) ... P/N 10-14655 ... ---
0-80 (0 center) ... P/N 10-14660 ... ---
0-100 (0 center) .. P/N 10-02788 ... ---

REPLACEMENT UMA AMMETER SHUNTS 30/60/80/100AMP

UMA Ammeter shunt 30AMP, 60AMP, 80AMP, and 100AMP.

Shunt 30AMP 1C1 ... P/N 10-02072 ... ---
Shunt 60AMP 1C2 ... P/N 10-02073 ... ---
Shunt 80 AMP 1C3 ... P/N 10-02352 ... ---
Shunt 100AMP 1C4 ... P/N 10-02074 ... ---

UMA NON-CERTIFIED LIGHT INVERTER

UMA 24/28v & 12/14v DC TO 120 VAC/400 hz Light Inverter large capacity. Non FAA/PMA

12/14 Volt ... P/N 10-07131 ... ---
24/28 Volt ... P/N 10-07132 ... ---

UMA OPTIONAL INTERNAL LIGHTING

Optional internal lighting for all UMA 2-1/4", 3-1/8" instruments (except altimeter). This is just a lighted option. Order the instrument in addition to the internal lighting. ... P/N 11-07239 ... ---

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

UMA ENGINE GAUGES

UMA 2-1/4" FUEL FLOW 270° GAUGE

These affordable indicators display gallons/hour fuel flow in a conventional analog instrument package. Standard markings are black and white.

2-1/4" 08- GPH .....P/N 10-02407 ..... ---
2-1/4" 0-20 GPH .....P/N 10-02408 ..... ---
2-1/4" 0-30 GPH .....P/N 10-02409 ..... ---
2-1/4" 0-20 GPH .....P/N 10-03706 ..... ---

UMA 2-1/4" FUEL AIR BOX 270° PRESSURE

Electronic, Fuel/Air-box Differential Pressure gauges and senders are designed for the Rotax 914 engine but have other applications where differential pressures need to be measured. It eliminates having to calculate the fuel/air-box differential pressure by looking at two separate gauges and having two separate senders.

Description	Part No.	Price
1-1/4 inch UMA Fuel Airbox Pressure Range: 0-7 Diff. PSI (U)	10-02402	---
2-1/4 inch UMA Fuel Airbox Pressure Range: 0-7 Diff. PSI (U)	10-00979	---

SENDER NOT INCLUDED

UMA 2-1/4" ELECTRONIC FUEL QUANTITY GAUGE

SENDER NOT INCLUDED

Range/Sweep	Part No.	Price
E-F/270° Sender: (C) 0-5V	10-02392	---
E-F/180°l Sender: (C) 0-5V	10-02393	---
E-F/270° Sender: (F) 240/30 ohms	10-02394	---
E-F/180° Sender: (F) 240/30 ohms	10-02395	---
E-F/180° Sender: (F) 0-30 ohms	10-02396	---
E-F/270° Sender: (F) 0-90 ohms	10-02397	---
E-F/180° Sender: (F) 0-90 ohms	10-02398	---
E-F/270° Sender: (F) 78-6 ohms	10-02399	---
E-F/180° Sender: (F) 78-6 ohms	10-02401	---
E-F/ Sender: (C) 0-5V	10-02410	---
E-F/ Sender: (F) 240/30 ohms	10-02411	---

UMA OPTIONAL INTERNAL LIGHTING

Optional internal lighting for all UMA 2-1/4", 3-1/8" instruments (except altimeter). This is just a lighted option. Order the instrument in addition to the internal lighting. .....P/N 11-07239 ..... ---

UMA PRESSURE SENDERS

UMA's pressure senders offer high reliability and accuracy at an affordable cost. They use precision solid state sensors and are designed for rugged use in just about any environment.

UMA Pressure Sender (U)(G)(D)
1/8"-27 NPTF Connection(s)
1' Cable 5/8-18 Mounting Thread

UMA Precision Sender (A)

Description	PSI	Part No.	Price
UMA Pressure Sender (U)	0-7 PSI Differential	10-00980	---
UMA Pressure Sender (U)	0-7 PSI	10-01057	---
UMA Pressure Sender (U)	0-35 PSI	10-01058	---
UMA Pressure Sender (U)	0-70 PSI	10-01059	---
UMA Pressure Sender (U)	0-100 PSI	10-01060	---
UMA Pressure Sender (U)	0-150 PSI	10-01061	---
UMA Pressure Sender (U)	0-60 InHg Absolute	10-01062	---
UMA Pressure Sender T1EU35(G)(D)	0-35 PSI	10-02646	---
UMA Pressure Sender T1EU100(G)(D)	0-100 PSI	10-02647	---
UMA Ashcroft Precision Sender	0-2000 PSI	10-02420	---
UMA Differential Pressure Sender	0-70 PSI	10-06223	---

TSO'D PRESSURE SENDERS

These units are the most economical TSO'd units on the market. They feature precision, solid state sensors and circuitry to give unequalled performance for the money. Available in gauge, differential and absolute types, they are compatible with avgas, jet fuel, engine oil and many other fluids. Compatible with indicating instruments that do not have precision output voltages. Units for fuel and oil pressure are certified under TSO C47. Units for manifold pressure are under TSO C45a.

Manufacturer Number	Range	Max Pressure	Part Number	Price
T1EU35(G)(D)	0-35 PSI	145 PSI	10-02646	---
T1EU100(G)(D)	0-100 PSI	406 PSI	10-02647	---
T1EU150(G)(D)	0-150 PSI	580 PSI	10-04312	---

UMA TEMPERATURE PROBES NON-TSO'D

(U) All 1BX Temperature Probes contain a thermistor for temperatur sensing. 6" Lead Wires.

(J) All 2B1X & 2B0X Temperature Probes use Type J Thermocouple. 6' Lead Wires.

(K) All 2B2X & 2B3X Temperature Probes use Type K Thermocouple. 6' Lead wires

UMA Part No.	Sizes	Our Part No.	Price
1B1	Thread:1/8 NPT, 1/2 Hex Head	10-00968	---
1B2	Thread: 3/8-24, 5/8 Hex Head (Auto)	10-00969	---
1B3	Thread: 5/8-18, 7/8 Hex Head (Lyc.)	10-00418	---
1B4	Thread: 10mm x 1.5 Pitch (Rotax 912 & 914)	10-00973	---
1B5F	Thread: 3/8-24, 2-1/4" OAT F°	10-02374	---
1B6	Thread: 16mm x 1.5 Pitch	10-02375	---
1B7	Thread: 12mm x 1.5 Pitch	10-02376	---
1B8	Thread: 1/4-20 (Carb. Temp.)	10-01156	---
1B10	Thread: 1/4-28	10-02377	---
---	Uma 1/4-28 Carb Temp Probe 100 Ohm Rtd Sensor	10-06269	---
1B11	Thread: 1/4-18 NPT	10-02378	---
2B10	10mm Spark Plug Ring	10-00960	---
2B12	12mm Spark Plug Ring	10-00961	---
2B14	14mm Spark Plug Ring	10-00962	---
2B18	18mm Spark Plug Ring	10-00963	---
2B01	Bayonet Type: 1/8 NPT	10-02448	---
2B02	Bayonet Type: 3/8"-24, w/snap	10-00795	---
2B20	Clamp Size: 1-5/8 - 2-1/2" Length: 1" Tip	10-04791	---
2B21	Clamp Size: 1 - 2" Length: 1" Tip	10-00966	---
2B30	Clamp Size: 8mm, Bayonet Length: (Rotax)	10-00967	---

IN

UMA 1-1/4” ENGINE INSTRUMENTS

Monitor your engine’s vitals with a full line of space saving 1-1/4” engine instruments with 240 degree analog sweep. These instruments allow you the opportunity to utilize panel space without compromising readability. No longer do you have to decipher cluster gauges or push buttons for readings or try to concentrate on flashing numbers. These premiere UMA instrument are electronic and can be powered from 14 or 28 volts. Signals are acquired from remote mounted sensors, processed and displayed on analog dials with easy to read markings. Each gauge uses rugged aircore meter movement for vibration resistance and repeatability. Each gauge can be placed in a 1-1/4” diameter hole and mounted behind the panel with (4) 6-32 screws. They can be cluster mounted as close as 11/2” centers. **Senders are sold separately.**

UMA Technical Support: 800-842-5578.

STREAMLINE • STACKABLE • EASY TO READ • RUGGED DESIGN

IN

CYLINDER HEAD TEMP. (CHT)

Description	Part No.	Price
CHT Gauge 100-300°F	10-00035	---
CHT Gauge 100-600°F	10-00036	---
CHT Thermocouple 14mm Plug (Rotax)	10-00962	---
CHT Thermocouple 18mm Plug (Lyc.)	10-00963	---
CHT Thermocouple 3/8-24 Bayonet (Lyc.)	10-00795	---

OIL PRESSURE

Description	Part No.	Price
Oil Pressure Gauge 0-80 PSI	10-00037	---
Oil Pressure Gauge 0-130 PSI	10-00038	---
Oil Pressure Gauge 0-130 PSI Rotax 912/914	10-05509	---

FUEL QUANTITY

Description	Part No.	Price
Fuel Qty. Ind. (Float 240-30)	10-00039	---
Fuel Qty. Ind. (Cap. 5v)	10-00040	---
Sender (Capacitance 0-5V)	10-00797	---

AMMETER

Description	Part No.	Price
Ammeter ±30 Shunt incl.	10-00041	---
Ammeter ±100 Shunt incl.	10-00043	---
Ammeter +60	10-00581	---
Ammeter +80	10-00582	---

WATER PRESSURE

Description	Part No.	Price
Water Press. Gauge 0-15 PSI	10-00044	---
Water Press. Gauge 0-30 PSI	10-00045	---

WATER TEMPERATURE

Description	Part No.	Price
Water Temp. Gauge 100-300°F	10-02457	---

CARB. TEMPERATURE

Description	Part No.	Price
Carb. Temp -60-120°F	10-05769	---

OUTSIDE AIR TEMPERATURE

Description	Part No.	Price
OAT (-25) -40°C	10-02385	---
OAT (-10) -110°F	10-02386	---

TACHOMETERS

Description	Part No.	Price
0-7000 RPM for Rotax 447/503/582	10-05507	---
0-7000 RPM for Rotax 912/914	10-05506	---

EXHAUST GAS TEMPERATURE (EGT)

Description	Part No.	Price
EGT Gauge 700-1700°F	10-00046	---
EGT Gauge 100-900°C	10-05696	---
EGT Gauge 1000-2000°F	10-05697	---
EGT Thermocouple Clamp style (Lyc.)	10-04791	---
EGT Thermocouple 8mm, Bayonet (Rotax)	10-00967	---

FUEL AIRBOX PRESSURE

Description	Part No.	Price
Fuel Airbox Pressure Range: 0-7 Diff.	10-02401	---

FUEL FLOW

Description	Part No.	Price
Fuel Flow 0-8 6PH	10-02403	---
Fuel Flow 0-20 6PH	10-02404	---
Fuel Flow 0-30 6PH	10-02405	---

OIL TEMPERATURE

Description	Part No.	Price
Oil Temp. Gauge 100-300°F	10-00047	---
1-1/4 inch VDO - TSO’d Electronic Temperature Gauges 100-300 deg F	10-02779	---
Oil Temp. Probe 3/8-24 (Automotive)	10-00969	---
Oil Temp. Probe 5/8-18 (Lyc./Cont.)	10-00418	---
Oil Temp. Probe 10mm (Rotax 912/914)	10-00973	---

FUEL PRESSURE

Description	Part No.	Price
Fuel Pressure Gauge 15 PSI	10-00048	---
Fuel Pressure Gauge 30 PSI	10-00049	---
Fuel Pressure Gauge 0-80 psi	10-00050	---

VOLTMETER

Description	Part No.	Price
Voltmeter 18-36V	10-00052	---
Voltmeter 9-17V	10-00578	---

FLAP INDICATOR

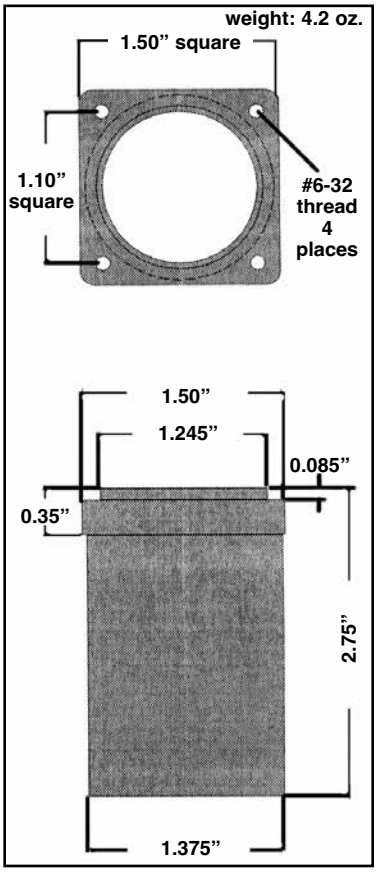
Description	Part No.	Price
Flap Position Indicator 0-30°	10-00053	---
Flap Position Indicator 0-40°	10-00054	---
Flap Position Indicator up-full	10-00055	---
Flap Indicator Transducer	AN5785	---

MANIFOLD PRESSURE

Description	Part No.	Price
5-35”	10-02438	---
5-50”	10-02439	---

For Experimental aircraft only. See next page for TSO’d Gauges. Mount individually or as a cluster.

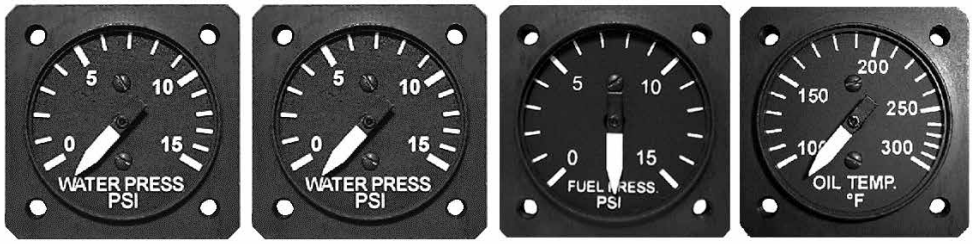
MOUNTING INFORMATION



Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

UMA 1-1/4” TSO’d ENGINE INSTRUMENTS

These 1 1/4” instruments are identical to the 1 1/4” UMA Gauges on previous page, except these are TSO’d for certified aircraft. (Except Ammeters)



UMA No.	Size & Type	Range / Sender - Sender Range	Markings & Sweep	Part No.	Price
OIL PRESSURE					
TO4 113V 080P 000	1 1/4” Oil Pressure	0-80 PSI (Vdo)	B & W	10-00037	---
TO4 113V 130P 000	1 1/4” Oil Pressure	0-130 PSI (Vdo)	B & W	10-00533	---
TO4 1135 060P 000	1 1/4” Oil Pressure	0-60 PSI (Ashcroft)	B & W	10-00534	---
FUEL PRESSURE					
TO4 112V 015P 000	1 1/4” Fuel Pressure	0-15 PSI (Vdo)	B & W	10-00538	---
TO4 112V 030P 000	1 1/4” Fuel Pressure	0-30 PSI (Vdo)	B & W	10-00539	---
TO4 112V 080P 000	1 1/4” Fuel Pressure	0-80 PSI (Vdo)	B & W	10-00540	---
TO4 1125 150B 000	1 1/4” Fuel Pressure	0-150 PSI (Ashcroft)	GA 59-115, RR@ 59-115	10-00545	---
WATER PRESSURE					
TO4 115V 015P 000	1 1/4” Water Pressure	0-15 PSI (Vdo)	B & W	10-00546	---
HYDRAULIC PRESSURE					
TO4 1145 2K0P 000	1 1/4” Hydraulic Pressure	0-2000 PSI (Ashcroft)	B & W	10-00550	---
OIL TEMPERATURE					
T12 113U 150C 000	1 1/4” Oil Temp	40-150 °C	B & W	10-00555	---
T12 113U 300F 000	1 1/4” Oil Temp	100-300 °F	B & W	10-00556	---
WATER TEMPERATURE					
T12 115U 150C 000	1 1/4” Water Temp	40-150 °C	B & W	10-00557	---
T12 115U 300F 000	1 1/4” Water Temp	100-300 °F	B & W	10-00558	---
CYLINDER HEAD TEMP. (CHT)					
T12 116J 530C 000	1 1/4” CHT	50-300 °C	B & W (Thermocouple)	10-00561	---
EXHAUST GAS TEMPERATURE (EGT)					
T12 117K 1K7F 000	1-1/4” EGT	400-1700 °F	B & W (Thermocouple)	10-04945	---
T12 117K 1K7F 000	1 1/4” EGT	100-900 °C	B & W (Thermocouple)	10-00562	---
MANIFOLD PRESSURE					
T07 11MU A35H 000	1-1/4” Manifold Pressure	5-35 In.	B & W	10-05523	---
FUEL QUANTITY					
T18 1125 1C10 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Cap 5v)	B & W (2700)	10-00566	---
T18 1125 2C10 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Cap 5v)	B & W (1800)	10-00567	---
T18 112F 1F10 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Float 240-30 Ohms)	B & W (2700)	10-00568	---
T18 112F 1F20 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Float 0-30 Ohms)	B & W (2700)	10-00569	---
T18 112F 1F30 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Float 0-90 Ohms)	B & W (2700)	10-00570	---
T18 112F 1F40 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Float 78-6 Ohms)	B & W (2700)	10-00571	---
T18 112F 1F50 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Float 10-180 Ohms)	B & W (2700)	10-00572	---
T18 112F 2F10 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Float 240-30 Ohms)	B & W (1800)	10-00573	---
T18 112F 2F20 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Float 0-30 Ohms)	B & W (1800)	10-00574	---
T18 112F 2F30 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Float 0-90 Ohms)	B & W (1800)	10-00575	---
T18 112F 2F40 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Float 78-6 Ohms)	B & W (1800)	10-00576	---
T18 112F 2F50 000	1 1/4” Fuel Qty. Ind.	Empty To Full (Float 10-180 Ohms)	B & W (1800)	10-00577	---
(AMMETERS) not TSO’d					
15 11S0 P30A 000	1 1/4” Ammeter (2700) (w/shunt)	-30 to 30 A	B & W	10-00041	---
15 11S0 P60A 000	1 1/4” Ammeter (2700) (w/shunt)	-60 to 60 A	B & W	10-00581	---
15 11S0 P80A 000	1 1/4” Ammeter (2700) (w/shunt)	-80 to 80 A	B & W	10-00582	---
15 11S0 P1CA 000	1 1/4” Ammeter (2700) (w/shunt)	-100 to 100A	B & W	10-00043	---

Senders sold separately, optional internal lighting available, Range Markings available at additional cost.

HOUR METERS – ENGINE GAUGES

HONEYWELL HOUR METERS

The LM series has been designed as a sealed, digital hour meter suitable for monitoring and recording elapsed running time. This is displayed on a digital LCD and normally shows hours and tenths of hours. They are ideally suited for applications where maintenance needs to be carried out on expensive manufacturing or transportation equipment after a desired time frame of operation.
Round Shape.....P/N 10-07146 ..... ---

PRESSURE SWITCH FOR HONEYWELL HOBBS HOUR METERS

Normally open. Closes at 4 PSI. Single circuit with 2 insulated terminals. Switch has silver contacts enclosed in weatherproof case. 1/8" male pipe thread connection.....P/N 10-00813 ..... ---
Water Compatible Pressure Switch for Rotax engines. P/N 10-00326 ..... ---

For pressure switches with 1/8" male pipe threads. For 1/4" O.D oil pressure lines ..... P/N 10-04846 ..... ---

871
3-Hole Flange Mounting 2.54" Bolt Circle 1.45" Dia. Holes

873
Mounts in Standard 2-1/4" Instrument Hole

876
Bracket Mount in 2-1/32" - 2-1/8" Panel Hole

DATCON HOUR METERS

Standard equipment in most production aircraft. Operate on any DC voltage from 4-40V. Recommended for use on aircraft because they start or stop instantly when power is applied or removed. Furnished with mounting hardware. If meter is connected improperly it will not operate but meter will not be damaged. The running indicator indexes every 6 seconds.
Model 871.....12/24V.....P/N 56456-3 ..... ---
Model 873.....12/24V.....P/N 56457-3 ..... ---
Model 876.....12/24V.....P/N 56458-4 ..... ---

TINY TACH TACHOMETER/HOUR METERS

RPM reading adjustable from 1 spark per 2 revolutions to 8 sparks per revolution. One TINY-TACH™ now works for most gas engines. RPM display from 1 to 19,000. RPM update time 1/2 second. Hour meter records total actual running time on your engine. Job timer can be reset to record run time for record keeping. Coax cable transmits signal without EMF interference. 1 Antenna cable winds around your spark plug wire to give you the RPM reading – clean and simple to attach. Signal strength can be controlled by the antenna wire. Standard cable length is 6 feet. This unit is potted to prevent damage from moisture and vibration. Lithium battery life 5+ years, not replaceable. One year warranty.
TT2A Standard Model .....P/N 10-04182 ..... ---
For Diesel Engines - 6mm transducer.....P/N 10-04016 ..... ---
For Diesel Engines - 1/4 inch transducer ..P/N 10-04017 ..... ---

SWIFT VOLTMETERS AND AMMETERS

Swift Gauge Voltmetersand ammeters are 6-16V and are availble in 2-1/4" and 2" Round. **MADE IN CHINA.**

Size	Model No.	Description	Part No.	Price
2 1/4"	VM16-ZQ	Voltmeter, 6-16V	10-02271	---
2 1/4" round	VM16-ZQ	Voltmeter, 6-16V	10-02272	---
2-1/4"	VM30-2Q	Voltmeter, 0-30V	10-04040	---
2 1/4" round	A30-001R	Ammeter, +/-30A	10-03411	---
2 1/4"	AV60-001	Ammeter, +/-60A	10-04041	---
2 1/4" round	AV60-001R	Ammeter, +/-60A	10-03415	---
2 1/4"	AV3016-002	Amp/Voltmeter +/-30A, 6-16V	10-03412	---
2 1/4" round	AV3016-001R	Amp/Voltmeter +/-30A, 6-16V	10-03413	---
2-1/4"	AV3030-002	Amp/Voltmeter +/-30A, 30V	10-04043	---
2-1/4"	AV2-6616	Amp/Voltmeter 30-0-60, 6-10V	10-03414	---
30A	SHT-030	Shunt for Amp/Voltmeter, 50mV/30A	10-03416	---
60A	SHT-060	Shunt for Amp/Voltmeter, 50mV/60A	10-03417	---

ENM HOUR METERS

Features 6-digits with an hour glass as a running indicator - operates only when engine is vibrating. Install anywhere with no wired connection or power source to operate. Internal battery supplies all the necessary power for the gauge to operate for years of service. Total operating hours are always shown on the LCD display. Compact tamper-proof meter is sealed against the environment to provide years of service.

- Voltage: 10-80 V DC
- Total dimensions: 1.43"W x 0.92"H x 2.13"D
- Face dimensions: 2.12"W x 1.25"H
- Weight: 2oz
- Power: 0.03W
- 6 Digit display
- Analog
- No reset
- Back of panel mounting

ENM Hourmeter DC Power Analog.....P/N 10-05278 ..... ---
ENM Hourmeter AC Power Analog.....P/N 10-05279 ..... ---
ENM Hourmeter Digital Vibration Activated.....P/N 10-05277 ..... ---

UNIVERSAL DIGITAL TACH/HOURMETER

Now both a digital tachometer and an hourmeter in the same low cost and small size package! No power required yet there is a large 7 segment LCD display. Solid state electronics with quartz crystal technology make this instrument highly reliable. Easy to install - just wrap the attached wire around your spark plug cable. The case is completely sealed, it operates in a wide temperature range and the service interval is programmable.....P/N TLPT14..... ---

BISHOP AIR SWITCH FOR HOURMETERS

Externally mounted air switch.
P/N 11-02378 ..... ---

TASKEM DIGITAL TACH / HOURMETER 4000

The Model 4000 Tachometer/Timer displays RPM in both digital and analog formats. The digital format uses a liquid crystal display (LCD)showing up to 19,990 RPM in 10 RPM steps. The LCD is backlighted for night viewing and since it uses "direct drive" it does not washout in sunlight or when viewed from an angle. The analog format is presented as a ring of light emitting diodes (LEDs) around the perimeter of the front panel. The user can easily set the range of RPM that the LEDs represent .....P/N 15-05211 ..... ---

UMS VOLTMETERS

These new manufacture voltmeters offer accuracy, rugged construction, and contemporary styling. Made in USA. 2 1/4" Range:
9-16V.....P/N 10-14620 ..... ---
20-32V.....P/N 10-02064 ..... ---

DIGITAL FLAP INDICATOR

The Visual Instruments Flap Indicator system provides a means for owners of older aircraft to upgrade their troublesome indicators to a modern, more reliable design. The system includes a new transmitter, a modern digital display, and all parts necessary to perform the upgrade. The new display incorporates a color LED bar graph. The appearance is similar to flap indications shown on modern glass cockpits. Positions of more than 10° flap are indicated in a different color. This allows for easy identification during an emergency procedure such as a balked landing (go-around). The LEDs are very viewable from a wide angle. This is particularly useful since the indicator on many Cessna models is located on the right side of the panel. The display automatically adjusts to the ambient light for IFR or night operation. The Flap Indicator system includes all necessary parts and typically takes a mechanic approximately 2 hours to install. 2 year factory warranty. STCd for installation on early model Cessna 172s, 182s, 205s, 206s, & 210s .....P/N 10-00240 .....

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

INSTRUMENT MOUNTING PODS

An economical, high-quality, easy-to-install solution to instrument mounting problems. Made of vacuum-molded white & black ABS plastic with attractive black matte ABS faces. The white pod may be easily spray-painted with acrylic enamel to match your aircraft. 2-pc. mounting brackets fit snugly around 1" tubing, secured with screws provided. Available for 2, 3, 4 or 5 instruments with face precut and drills of either 2-1/4" or 2" instruments. Blank face plates also available. May be used horizontal or vertically. When you order, specify either 2-1/4"or 2" instruments holes or blank face plate. Instruments not included.

Dimensions:
2 Instrument Pods: 7-1/2" Wide x 3-3/4" Tall x 3-3/4" Deep
3 Instrument Pods: 10-3/8" Wide x 3-3/4" Tall x 3-3/4" Deep
4 Instrument Pods: 13-1/8" Wide x 3-3/4" Tall x 3-3/4" Deep
5 Instrument Pods: 16" Wide x 3-3/4" Tall x 3-3/4" Deep

Hole Size (in.)	Number of Instruments	Color	Part No.	Price
2-1/4	2	White	10-01513	---
2-1/4	3	White	10-01517	---
2-1/4	4	White	10-01521	---
2-1/4	5	White	10-01525	---
2-1/4	2	Black	10-01529	---
2-1/4	3	Black	10-01530	---
2-1/4	4	Black	10-01531	---
2-1/4	5	Black	10-01533	---
2	2	White	10-01534	---
2	3	White	10-01535	---
2	4	White	10-01536	---
2	5	White	10-01537	---
2	2	Black	10-01538	---
2	3	Black	10-01539	---
2	4	Black	10-01540	---
2	5	Black	10-01541	---
Blank	2	White	10-01542	---
Blank	3	White	10-01543	---
Blank	4	White	10-01544	---
Blank	5	White	10-01545	---
Blank	2	Black	10-01546	---
Blank	3	Black	10-01547	---
Blank	4	Black	10-01548	---
Blank	5	Black	10-01549	---

SHOCK MOUNTS

For vibration and shock proofing on instruments and radios.

LORD INSTRUMENT SHOCK MOUNT - ONE INCH PLATE TYPE

1" Square Plate Type Lord Mounts, 6 lb. rating. Monel mounting plate. Base holes .141" dia. for 6-32 screws. Center hole .166" dia. for 8-32 screw. New surplus item - like new mfg. ..... P/N 10-02183 ..... ---

LORD ROUND INSTRUMENT PANEL SHOCK MOUNT

Lord round instrument panel shock mount, as used in Cessna aircraft. Overall length 1-1/4". Rubber molded on 8-32 threaded projections. New manufacture.
P/N 10-14700 ..... ---

ROUND INSTRUMENT PANEL SHOCK MOUNT

Replacement Instrument Panel Shock Mount. Replaces Lord J6984-1, -8 and Cessna 0411059-1 Shockmount.
P/N 10-06506 ..... ---

LORD INSTRUMENT SHOCK MOUNT

These compression type couplings consist of bonded rubber joints pressed into the sockets of metal hubs. These dynafocal engine suspensions provide proper flexible support to isolate engine vibrations and reduce noise transmission to airframe structure in all aircraft applications. Careful design assures maximum strength to hold the engine under ultimate load and emergency conditions. Suspensions also distribute loads in most desirable patterns, control engine motions, accommodate thermal expansion and manufacturers' tolerances.
P/N 08-00381 ..... ---

SCOTT TYPE AIR THERMOMETER NON-TSO

Not FAA PMA Approved. A direct reading gauge with both Fahrenheit and Centigrade graduations on the dial. It can be installed through plexiglas windshields, sheet metal cowling, or through the center strip of the windshield. Mounting Hole - Drill a .375" (3/8") + .010"/-.000" hole through the part of the window or wall section desired. For use with a 7/16" torque wrench. Do not exceed 20 inch-pounds torque.
P/N 10-15500 ..... ---

HYDRAULIC PRESSURE GAUGE

AN5771-4A Military style gauge with steel case. Mounts in 2-1/4" dia. panel opening. Range: 0-2000 PSI. Overhauled and Certified. With fresh Matte-white dial.
P/N AN5771-4A ..... ---

ASTROTECH QUARTZ CHRONOMETERS

A fine quality 2-1/4" instrument to satisfy all cockpit clock/timer needs. 12 or 24 hour clock, 24 hour elapsed timer with time-out or hold feature, month and date. Will operate on internal battery for 2 years or can be connected to electrical system. 12 or 28V DC operation. **Does not include internal battery.**

Part No.	Model	Description	Price
10-05855	LC-2	Panel Mount Two AAA Battery Powered	---
10-06811	LC-2	Panel Mount Aircraft Powered	---

NOTE: For Aircraft Application Information on Astrotech Chronometers visit www.aircraftspruce.com

FLIGHT DATA SYSTEM ELECTRIC TACHOMETER

Tachometer: Monitors both left and right ignition systems. Works with magnetos and electronic ignition. Warns when an ignition system has failed. Engine Hour Meter: Saves engine hours in "tach time" or actual time. Flight Timer: Automatically records flight Time. **Features**: Large and easy to read digits. Extreme operating temperature display. Soft orange backlight with automatic brightness. 2-1/4" panel mounted. Weighs 2.6oz. Includes pre-wired connector. 12-28 volt compatible .....P/N 10-03898 ..... ---

AEROSPACE LOGIC 200 - CLOCK, OUTSIDE TEMPERATURE KIT

The CA200 is an advanced, next generation airborne timepiece plus a seven input annuciator. It can scan seven 200 Series instruments and report any out-of-limit conditions the moment they occur; all on one instrument. Once identified, simply glance over the panel to view the exact cause for concern. With the CA200 mounted either in or close to your primary panel scan you will reduce the need for consistent full panel scans and be automatically made aware of any condition requiring attention. The CO200 is identical to the CA200 with the exception of the annunciator function. Using one of the world's most accurate digital timebases they will provide precise time for years to come. Outside air temperature functionality is TSO'd and meets the temperature accuracy requirements of SAE AS8005 for a Class IIa (+/- 1%) instrument. Functional displays include: • UTC Time • Local Time • Chronograph • Flight Time and Interval Timer • Seven annunciator sense inputs (CA200 only) .....P/N 10-04348 ..... ---

XREXS® DIGITAL TIMER

This timer is the perfect size for cockpit use. It times up and down, and has a large, easily readable display. With a clip on the back for mounting on a kneeboard, and includes battery. The hang card makes it easy to display, too. **Specifications:** • Timer size: 2.95x 0.75x 2.56 inches • LCD display: 2.44 x 1.06 inches • Color: White • Weight: 95g • Material: ABS plastic • Power: 2 AAA batteries (included) ..P/N 13-23273 ..... ---

SUPERCLOCK FROM ELECTRONICS INTERNATIONAL

Displays local and Zulu time. May be set to display in a 12 or 24-hr format. A 10-year lithium battery keeps the clock running even if the aircraft battery is removed. Displays an Up Timer, that will start running when the engine is started. Acts as an automatic Flight Timer. The Up Timer may be started, stopped or reset. A Recurring Alarm may be set to alert you at appropriate time intervals. Displays a Down Timer. Displays an Engine Timer. Acts as a Hobbs Meter. When the engine starts, the Engine Timer will run. **Specifications**: 2-1/4" mount. 3.65" Depth. 10 Oz. Unit. Viewable in direct sunlight. Backlit for night operation. Operates from 7.5 to 35 volts at .3 amps .....P/N 10-01612 ..... ---

QUARTZ ELECTRIC AIRCRAFT CLOCKS

These clocks are constructed for easy installation in a wide variety of aircraft. The rugged quartz movement is accurate within 2 seconds in 24 hours under normal operations and runs accurately in temperatures from -30°–180°F. The clock kit includes a power harness, mounting screws and installation instructions. The clock features adjustable red elapsed time hands.

12V.....P/N 10-22812 ..... ---
24V.....P/N 10-22824 ..... ---

MID-CONTINENT CHRONOS DIGITAL CLOCK / MAX POWER USB CHARGERS

The CH93 series, part numbers 6420093-( ), is a multi-function digital clock / chronometer / voltmeter / temperature unit with multiple options for USB Charging Ports. The unit fits into a standard, rear-mounted, 2-¼" avionics panel cutout. Power is drawn from the aircraft main bus to light a white, six digit, seven segment LED clock. The clock can display several different modes: local time, universal time, flight timers, elapsed and countdown timers and optionally, bus voltage and up to two temperature inputs. The USB Charging Ports are designed as DCPs (Dedicated Charging Ports) to industry-standard protocol per the USB Battery Charging 1.2 Compliance Plan. Some models also comply with the higher power requirements of USB Power Delivery 2.0 and 3.0. Early-generation or smaller consumer electronics typically accept one (1.0) amp during charging. However, newer electronics, such as tablets and larger devices can accept, and in some cases, require up to 3 amps to charge and operate.

Description	Model No.	Part No.	Price
Digital Clock Only	6420093-0	10-07369	---
Dual USB-A/USB-C PD 75 W/6A	6420093-5	10-07292	---
Single USB-A Charger 15W/3A Out	6420093-3	10-07294	---
Dual USB-A 30W/6A Out	6420093-4	10-07295	---
Dual USB-A Charger 30W/6A Out	6420093-2	10-06963	---

FLIGHT TIME INFORMATION SYSTEM FTC (RECTANGULAR)

Easy Flight Time Controlling for Basic Training, Glider Towing, Parachuting. **FTC**: • Counts Time Hours and Minutes • 37x24 mm rectangular • FTC with same front size as Hobbs time counter • Easy initial time set with 2 push buttons on back side • Input for On/Air from external switch or GPS system with output • Power supply is 12 V to 24 V DC37x24 mm Rectangular.....P/N 10-05107 ..... ---

MID-CONTINENT CHRONOS DIGITAL CLOCK / MAX POWER USB CHARGERS

The CH93 series, part numbers 6420093-( ), is a multi-function digital clock / chronometer / voltmeter / temperature unit with multiple options for USB Charging Ports. The unit fits into a standard, rear-mounted, 2-¼" avionics panel cutout. Power is drawn from the aircraft main bus to light a white, six digit, seven segment LED clock. The clock can display several different modes: local time, universal time, flight timers, elapsed and countdown timers and optionally, bus voltage and up to two temperature inputs. The CH93 display is daylight readable with two methods of brightness control. It can be controlled automatically using the internal photocell or manually with an external dimming bus voltage. The CH93 clock has an internal battery to maintain clock time and flight timer memory when the aircraft is not in use.

Description	Model No.	Part No.	Price
Digital Clock Only	6420093-0	10-07369	---
Dual USB-A/USB-C PD 75 W/6A	6420093-5	10-07292	---
Single USB-A Charger 15W/3A Out	6420093-3	10-07294	---
Dual USB-A 30W/6A Out	6420093-4	10-07295	---
Dual USB-A Charger 30W/6A Out	6420093-2	10-06963	---

WESTBEND ELECTRONIC TIMER

The jumbo LCD display on this electronic timer displays time in hours, minutes and seconds. Includes clock feature, electronic alarm, clip, stand, magnet and hanging hole for versatile use. AAA Battery included. P/N 17-00240 .....

DIGITAL 3 CHANNEL CLOCK / TIMER

Digital 3 channel timer with large LCD screen with magnetic back and battery included.
It has three separate timers allowing you to use it for three separate events. 3 channels can be counted up & down simultaneously and turn them off individually. Time can be set with a wide range from 00:00:00 to 99 :59 : 59. Electronic timer with adjustable volume with flashing red light alarm. You can adjust the volume (high/low/mute) according to your requirement. Switch to save battery life, Set a re-use time as memory time. Press "M" button to bring up the memory time. Meanwhile Press "CLEAR" to reset. when the timer goes off. If you don't shut it off, it will beep with red flashing light for one minute, and it changes to a stop watch.

P/N 17-00350 ..... ---

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

DIGITAL CHRONOMETERS AND CLOCKS

MODEL 803

- UT, LT, FT, & ET
- FT & ET Visual Alarm
- External Output for Optional Audio Alarm(FT/ET)
- Aircraft Voltage
- OAT F & C (12Ft. Temperature Probe)
- Internal Lighting
- AA Memory Battery
- Input Voltage 11 to 28 Volts
- NVIS (NVG) Option Green A

Description	Part No.	Price
UT, LT, FT, & ET Digital Clock 5V Lighting, Voltmeter, OAT (F & C)	10-03304	---
UT, LT, FT, & ET Digital Clock 14V Lighting, Voltmeter, OAT (F & C)	10-25520-14	---
UT, LT, FT, & ET Digital Clock 28V Lighting, Voltmeter, OAT (F & C)	10-25520-28	---
803-5V With Night Vision Lighting Green A	10-03342	---
803-14V With Night Vision Lighting Green A	10-03343	---
803-28V With Night Vision Lighting Green A	10-03344	---
C307PS Temperature Probe 12Ft. Coax (Analog)	11-04603	---
Audio Alarm Son-Alert	11-04610	---

MODEL 800

MODEL 800 Illuminated Buttons

- GMT, LT & ET
- ET Counter (UP/DOWN), Visual Alarm
- Model 800 AA Memory Battery (Optional)
- Input Voltage 11 to 28 Volts
- External Output for Optional Audio Alarm (ET)
- NVIS (NVG) Option Green A
- Available for Beechcraft yoke
- Internal Lighting

• 5 volt and 28 volt lighting units need at least 20 volts on main power input for clock to operate. For 14 volt systems, order a clock with 14 volt lighting.

Description	Part No.	Price
GMT, LT, & ET Digital Clock 5 Volt Lighting (800)	10-03323	---
800-5V With Battery Holder (AA)	10-03305	---
800-5V With Night Vision Lighting Green A	10-03324	---
800-5V NVG With Memory Battery Holder (AA)	10-03325	---
GMT, LT, & ET Digital Clock 14V Lighting (800)	10-04508	---
800-14V With Memory Battery Holder (AA)	10-02050	---
800-14V With Night Vision Lighting Green A	10-03330	---
800-14V NVG With Memory Battery Holder (AA)	10-03331	---
GMT, LT, & ET Digital Clock 28V Lighting(800)	10-24535-28	---
800-28V With Memory Battery Holder (AA)	10-02051	---
800-28V With Night Vision Lighting Green A	10-03335	---
800-28V NVG With Memory Battery Holder (AA)	10-03336	---
800-5V, Illuminated Buttons, Battery Holder	10-04730	---
800-14V, Illuminated Buttons, Battery Holder	10-04574	---
800-5V NVG, Illuminated Buttons, Battery Holder	10-04576	---
800-14V NVG, Illuminated Buttons, Battery Holder	10-04577	---
800-28V NVG, Illuminated Buttons, Battery Holder	10-04578	---

MODEL 811

- Six-digit Display on all 3 Functions.
- Time Function (12 OR 24HR Selectable)
- FT & ET
- Bright Sunlight Readable Displays
- Memory Battery Included
- Input Voltage11 to 28 Volts
- NVIS (NVG) Option Green A

Description	Part No.	Price
LT, FT, & ET Clock	10-24550-14	---
Model 811 With Night Vision	10-03346	---

Accessories / Replacement Parts	Part No.	Price
811 Dropping Resistor	11-04607	---
811 Memory Battery Pack	10-24560	---
811 Inverting Cable	11-04608	---
811B Female Connector (Standard Cable)	11-04609	---
KW-505FDigital Display for Model 811B	11-04613	---

Davtron M811C FAA Approved Chronometer

Accessories / Replacement Parts	Part No.	Price
Model 811c Standard Black Front Mount, Lt (12 Or 24) Hr, Ft, Et/Cdt, Led Clock	10-07455	---
Model 811c-A M811c With Gray Faceplate	10-07456	---
Model 811c-2 Standard Black Internal Mount, Lt (12 Or 24) Hr, Ft, Et/Cdt, Led Clock	10-07457	---
Model 811c-2a M811c-2 With Gray Faceplate	10-07458	---

DIGITAL CHRONOMETERS AND CLOCKS

MB800 (Beechcraft Yoke)

MB800 Illuminated Buttons

- GMT, LT & ET
- ET Counter (UP/DOWN), Visual Alarm
- Input Voltage 11 to 28 Volts
- External Output for Optional Audio Alarm (ET)
- NVIS (NVG) Option Green A
- Available for Beechcraft yoke
- Internal Lighting

Description	Part No.	Price
MB800-5V (Black)	10-03341	---
MB800-14V (Black)	10-02649	---
MB800-28V (Black)	10-02651	---
MB800-5V (Cream)	10-04581	---
MB800-14V (Cream)	10-02906	---
MB800-28V (Cream)	10-03340	---
MB800-5V (Black) NVG Green A	10-04582	---
MB800-14V (Black) NVG Green A	10-04583	---
MB800-28V (Black) NVG Green A	10-04584	---
MB800-5V (Cream) NVG Green A	10-04585	---
MB800-14V (Cream) NVG Green A	10-04586	---
MB800-28V (Cream) NVG Green A	10-04587	---
MB800-5V (Black) Illuminated Buttons	10-04588	---
MB800-14V (Black) Illuminated Buttons	10-04589	---
MB800-28V (Black) Illuminated Buttons	10-04590	---
MB800-5V (Black) NVG Green A, Illuminated Buttons	10-04591	---
MB800-14V (Black) NVG Green A, Illuminated Buttons	10-04592	---
MB800-28V (Black) NVG Green A, Illuminated Buttons	10-04593	---

Model 877 Rear Mount

Model 850 NVG Front Mount

Model 850 Front Mount

- GMT, LT, FT, & ET
- FT & ET Visual Alarm
- External Output for Optional Audio Alarm(FT/ET)
- Bright Sunlight Readable displays
- Illuminated Displays
- Model 850 N Size Memory Battery
- Model 877 AA Memory Battery
- Input Voltage 11 TO 28 Volts
- NVIS (NVG) Optional Green A (850 & 850-2)

Description	Part No.	Price
GMT, LT, FT, & ET Clock 5V Lighting (850)	10-03310	---
850A-5V-With Gray Faceplate	10-03311	---
850-5V With Night Vision Compatibility (Green A)	10-03306	---
850A-5V-NVG With Gray Faceplate	10-03347	---
850-2-5V Rear Mount Night Vision (Green A)	10-04725	---
GMT, LT, FT, & ET Clock 14V Lighting (850)	10-03312	---
850A-14V With Gray Faceplate	10-03348	---
850-14V With Night Vision Compatibility (Green A)	10-03349	---
850-2-14V Rear Mount Night Vision(Green A)	10-04726	---
850A-14V-NVG With Gray Faceplate	10-03350	---
GMT, LT, FT, & ET Clock 28V Lighting (850)	10-03313	---
850A-28V With Gray Faceplate	10-03314	---
850-28V With Night Vision Compatibility (Green A)	10-03351	---
850-2-28V Rear Mount Night Vision(Green A)	10-04727	---
850A-28V-NVG With Gray Faceplate	10-03352	---
GMT, LT, FT, & ET Clock 5V Lighting (877)	10-03308	---
877A-5V With Gray Faceplate	10-03309	---
GMT, LT, FT, & ET Clock 14V Lighting (877)	10-24545-14	---
877A-14V With Gray Faceplate	11-05879	---
GMT, LT, FT, & ET Clock 28V Lighting (877)	10-24545-28	---
877A-28V With Gray Faceplate	11-05880	---
Audio Alarm Son-Alert	11-04610	---

MILITARY CHRONOMETER

• Military clock • Two button control system • Control switch has remote capability • Sunlight readable displays • N.V.G. Filter, Green A or BG7B • Manual dimming of the display • Full 6 digit display selectable, GMT, LT, ET • Elasped time is count up or down • Keep alive battery (2 year life) • GMT full 6 digit hours/minutes/seconds • Local Time, 24 hour, 4 digit

Description	Part No.	Price
GMT, LT & ET Clock with night vision compatibility for military (BG7B)	11-08021	---
GMT, LT & ET Clock with night vision compatibility for military (Green A)	11-08022	---

DENSITY & PRESSURE ALTITUDE MODEL 655

Front Mount

Rear Mount

• OAT (F) & OAT (C) • Pressure & Density Altitude With Pressure ALT. Alarm • Aircraft Voltage with Flashing Alarm • Bright Sunlight Readable Displays • Input Voltage 11 TO 28 Volts • Complete with 12 FT. Digital Probe

Description	Part No.	Price
Front Mount	10-24515-1	---
Rear Mount	10-24515-2	---

DIGITAL VOLTMETER OUTSIDE AIR TEMPERATURE MODEL 303

Front Mount

Rear Mount

• OAT (F) & OAT (C) • Aircraft Voltage with Flashing Alarm • Bright Sunlight Readable Displays • Input Voltage 11 TO 28 Volts • Complete with 12 FT. Digital Probe.

Description	Part No.	Price
Front Mount	10-24565-14-1	---
Rear Mount	10-24565-14-2	---

DIGITAL VOLTMETER AMMETER MODEL 475VA/475VAA

M475VA

- Low current drain .001 amp
- Plus 100.0 volt D.C. range
- 1.3" case depth
- Sunlight readable
- One tenth volt resolution

M475VAA

- Plus or minus 100.0 amp range
- 2¼ Standard mount
- 5, 14, or 28 volt back lighting
- One tenth amp resolution

The M475VAA has dual shunts and can read voltage and two current flows (M475VA has a single shunt). The 475VA and the 475VAA were designed for low current drain and are also used in standby and emergency battery packs. One example of safety is if the alternator fails, you can monitor the load current out of the battery.

Description	Part No.	Price
Volt/Amm Meter 14V Lighting (Single Shunt)	10-03319	---
Volt/Amm Meter 28V Lighting (Single Shunt)	10-03320	---
Volt/Amm Meter 14V Lighting (Double Shunt)	10-03321	---
Volt/Amm Meter 28V Lighting (Double Shunt)	10-03322	---
Volt/Amm Meter 14V Lighting (Single Shunt) With Night Vision Compatibility Green A	10-04562	---
Volt/Amm Meter 28V Lighting (Single Shunt) With Night Vision Compatibility Green A	10-04564	---
Volt/Amm Meter 14V Lighting (Double Shunt) With Night Vision Compatibility Green A	10-04566	---
Volt/Amm Meter 28V Lighting (Double Shunt) With Night Vision Compatibility Green A	10-04567	---

DAVTRON 307CD-PROBE MINI 2FT TEMPERATURE PROBE

Davtron 307CD-Probe Mini 2ft Temperature Probe (Analog) 307CD, 307FD.....P/N 10-07464 ..... ---

DAVTRON 9 PIN FEMALE CONNECTOR ASSEMBLY

Davtron Nut for Temp Probe.....P/N 10-07466 ..... ---

DAVTRON NUT FOR TEMP PROBE

Davtron Nut for Temp Probe.....P/N 10-07465 ..... ---

DIGITAL OUTSIDE AIR TEMPERATURE

MODEL 301

- OAT (F)
- OAT (C)
- Bright Sunlight Readable Displays
- Input Voltage 11 TO 28 Volts.
- Complete with 12 FT. Digital Probe.

Description	Color	Part No.	Price
O.A.T. Celsius (301 C),	Amber LED	10-08312	---
301C 3 Pin Connector for Probe	Amber LED	10-03316	---
O.A.T. Fahrenheit (301 F)	Amber LED	10-08512	---
301F 3 Pin Connector for Probe	Amber LED	10-03317	---
O.A.T. Celsius,	Green LED	10-04543	---
O.A.T. Celsius,	White LED	10-04544	---
301C 3 Pin Connector For Probe	Green LED	10-04545	---
301C 3 Pin Connector For Probe	White LED	10-04546	---
O.A.T. Fahrenheit	Green LED	10-04547	---
O.A.T. Fahrenheit	White LED	10-04548	---
301F 3 Pin Connector For Probe	Green LED	10-04549	---
301F 3 Pin Connector For Probe	White LED	10-04551	---

M307FC

- OAT (F) & OAT (C) Voltage
- Bright Sunlight Readable Displays

M307FCI

- Input Voltage 11 TO 28 Volts.
- Complete with 12 FT. Digital Probe.

M307FCE

Description	Part No.	Price
O.A.T. F & C (307FC)	10-08513	---
O.A.T. F & C Cabin Air (307FCI)	11-05881	---
O.A.T. F & C & Voltmeter (307FCE)	10-04552	---

Description	Part No.	Price
Celsius Differential Intercooler (307 CD)	10-03318	---
Fahrenheit Differential Intercooler (307 FD)	11-05882	---

MODEL 450

- Aircraft Voltage with Flashing Alarm
- Bright Sunlight Readable Display
- Input Voltage 11 TO 28 Volts.

MODEL 451

- Aircraft Voltage (451)
- Bright Sunlight Readable Display
- Minimum panel Space
- Input Voltage 11 TO 28 Volts.

Description	Part No.	Price
Voltmeter (450), Amber LED	10-24505	---
Voltmeter (450), Amber LED, Remote Sensing	10-04555	---
Voltmeter (450), Green LED	10-04553	---
Voltmeter (450), Green LED, Remote Sensing	10-04556	---
Voltmeter (450), White LED	10-04554	---
Voltmeter (450), White LED, Remote Sensing	10-04557	---
Voltmeter (451), Red LED, Remote Sensing	10-04558	---

ACCESSORIES / REPLACEMENT PARTS

Description	Part No.	Price
KW-105G Display for Model 303, 307, 655, 880, & 903	11-04611	---
KW-115G Display for Model 303, 655, 850, 877, & 880	11-04612	---
KW-505F Digital Display for model 811B	11-04613	---
800 Series Alarm Son-Alert	11-04610	---
Temp Probe - 7Ft Red/Black Twisted (Analog)	10-00653	---
Temp Probe - 12Ft COAX C307PS (Analog)	11-04603	---
Temp Probe 12Ft COAX D307PS (Digital)	11-10717	---

See our website for additional sizes.

IN

TACHOMETERS

MITCHELL MECHANICAL TACHOMETERS

3-1/8" Tach

2-1/4" Tach

In 1985 AC discontinued production of the popular "RT" series of mechanical tachometers. Mitchell immediately entered the market to fill the void. These tachs feature exceptional accuracy and reliability. Mitchell tachs come with a factory-direct 2 year warranty. The range on all models is 500 to 3500 RPM. Accuracy is +/- 25 RPM from 1000 to 3000 RPM. Determine the correct part number from the chart below. All Mitchell tachs are FAA approved to TSO-C49b for certified aircraft. 2-1/4" tachs are direct replacements for the 3-1/8" tachs to save panel space. $30.00 for custom range marks (specify ranges). $12.50 to set hours (specify hours).

Mitchell P/N	Our P/N	Price
D1-112-5023	10-24623	---
D1-112-5122	10-24622	---
D1-112-5030	10-24630	---
D1-112-5124	10-24624	---

Mitchell P/N	Our P/N	Price
D1-112-5025	10-24625	---
D1-112-5032	10-24632	---
D1-112-5028	10-24628	---

Mitchell P/N	Our P/N	Price
D1-112-5034	10-24634	---
D1-112-5029	10-24629	---
D1-112-5024	10-24644	---

2566 Cruise RPM Clockwise ..... P/N 98480-2.....2-1/4" TACH (98480-2) .....---
2300 Cruise RPM Clockwise ..... P/N 10-02046.....2 1/4" TACH .....---

IFR P/N	Mitchell P/N	Stewart Warner No.	AC Type	Direction of Rotation	Average Cruise RPM	APPLICATION (REPLACEMENT FOR ORIGINAL EQUIPMENT INSTALLATIONS)
55-35-7	D1-112-5023	P-551-AZ	RT-7	Clockwise	2300	**Aero Commander:** A9, A9A, A9B **Aeronca:** 15AC Sedan **Alon:** F1, F1A, A-2, A-4 & 415C. D, E, F, G (Including Ercoupe and Forney) **Grumman/American:** AA-1, AA1A, AA-5 **Beech:** C35, D35, E35, F35 **Bellanca/Champion:** 7EC, 7FC, 7GC, 7HC,7GCB, 7K, 7ECA, 7GCAA, 7GCBC, KCAB, 8KCAB, 260, 14-19, Viking 300, TurboViking **Call:** A , 114 **Taylorcraft:** 19,15A, 20, 20AG, Zephyr **Temco:** (Swift; GC-1, GA-1B)
55-35-8	D1-112-5122	P-551-AYZ	RT-8	Clockwise	2050	**Beech:** 35, A3S, B35, 35R
55-35-9	D1-112-5030	P-551-AZH	RT-9	Counter-clockwise	2300	**Aeronca:** Champion, Chief (early models) **Piper:** PA15, PA18, (W/TCM eng)
55-35-10	D1-112-5124	P-551-AZJ	RT-10	Counter-clockwise	2050	**Aeronca:** Champion, Chief (late models) **Champion:** 7AC, 11AC, 7CCM Beech
55-35-11	D1-112-5025	P-551-TA	RT-11	Clockwise	2566	**Bonanza Models:** G35 thru V35, V35TC, 36, A36, 95, B95, B95A, D95A- All Musketeer Models. All Debonair Models **Cessna:** 150,152, 172, 177, 185 & 188 (with IO-520 eng), 206, 207, 210, 310, 320 **Helio:** H250, H391, H392, H395 **Navion:** E, F, G **Stits:** SA9A, SA9B **Bellanca/Champion:** 7AC
55-35-12	D1-112-5032	P-551-AZK	RT-12	Counter-clockwise	2566	**Stinson:** 105,108
55-35-14	D1-112-5028	P-551-AZA	RT-14	Clockwise	1800	**Aero Commander:** (Ayres Corp.) B1A, S2B, S2C, S2D, S2R **Stearman:** A75 (P & W eng.)
55-35-15	D1-112-5034	P-551-AZB	RT-15	Clockwise	3000	**Cessna:** 175
55-35-16	D1-112-5029	P-551-AZL	RT-16	Counter-clockwise	1800	**Grumman:** G164
55-35-17	D1-112-5024	N/A	RT-17	Clockwise	2400	**Maule:** M5/6/MX7-180, M5/6/7/MX7-235

Cub Face Dial 3" CW.....P/N 10-05450.....--- Cub Face Dial 3" CCW.....P/N 10-05451.....---

***The specific tachometer listed is best suited if the installation has this approximate cruise rpm.**
Direction of rotation must be compatible with the previous tachometer that was used.
Direction of rotation is defined as when viewing the front of the tachometer.

SLI AIRCRAFT TACHOMETERS

For three decades, Superior Labs, Inc. (SLI) has supplied the aircraft OEM's with the finest quality and most reliable mechanical tachometers in the industry for new production aircraft and can be customized for a variety of aircraft applications. These are now available to the public as aftermarket tachometers

Specifications:

• Accuracy to within ± 25 RPM • Range 0-3500 RPM • Diameter 3-1/8" • Length 3-1/2" • Weight: 13 Oz. • Two Years Warranty

Most Models .....---

Accessories	Part No.	Price
SLI Custom Range Markings	10-03685	---
Sli Tach Lighting	10-03672	---

Accessories	Part No.	Price
SLI Tach Hours Set	10-03673	---

SEE WWW.AIRCRAFTSPRUCE.COM FOR APPLICATION CHART, PART NUMBERS, AND PRICES.

TACHOMETERS

RIGHT ANGLE TACH DRIVE

Instrument right angle tach drive. All connections and case are Aluminum and connects from gauge to tach cable. Reversible: Can be configured clockwise & counter clockwise rotations.

P/N 10-05504 ..... ---

DUAL TACHOMETER DRIVE

Adapter screws to the male thread on the back of the tachometer. The two tachometer cables screw onto the opposite sides of the dual adapter. 1:1 Ratio.

P/N 10-01445 ..... ---

ENGINE RIGHT ANGLE DRIVE

Female end attaches to engine tach drive outlet. Male output end accepts standard tach cable female nut (7/8-18 thread). Eliminates bending of tach cable at the engine in cramped installations. Designed for heavy-duty service. Gears and shafts are of heat-treated alloy steel. Oil impregnated sintered bronze shaft bearings. Cast iron case and fittings. With lubricator fitting for greasing. 1:1 ratio.

P/N 10-00814 ..... ---

TACHOMETER CAP

This Tach Cap can be used to close off the tachometer drive of a Lycoming or Continental engine when an electronic tach drive is being used off the magneto or electronic ignition. 7/8" thread and Viton (R) O-ring to seal.

P/N 10-06754 ..... **--- ea.**

FALCON 2-1/4" MECHANICAL TACH

Falcon T2-001U Tachometer - For both point and Ducati Ignitions. Standard pointer type. Universal, 0-8000rpm, Point and CDI. Compatible with rotax point and CDI ignition, not compatible with 912, 914.

P/N 10-00816 ..... ---

WESTACH TACHOMETERS

CLamps to ultralite tubing or motorcycle handle bar. Swivels 360° at any angle. Furnished with chrome plated installation hardware. SINGLE TACH (Tachometer requires no sender.)

PWR By	Application	RPM	Head Type	MFR P/N	Part No.	Price
CDI	2 or 6 imp alt (Rotax, 2Si, Hirth, Arcticat)	0-8000	Round	2CT8A-2/6	10-01302	---
Mag	2/4 cyl. dist/mag & 1/2 VW	0-3500	Square	2AT3-2	10-01275	---
Mag		0-5000	Square	2AT5-2	10-01294	---
CDI	2 or 6 imp alt. (Rotax, 2Si, Hirth, Arcticat)	0-8000	Square	2AT8A-2/6	2AT8A-2/6	---
CDI	Jabiru 5 imp alt.	0-3500	Square	2AT3A-5	10-00478	---
CDI	Jabiru 6 imp alt.	0-3500	Square	2AT3A-6	10-00479	---

WESTACH 2-1/4" TACH/HOUR METERS

SQUARE

ROUND

PWR By	Application	RPM	MFR P/N	Part No.	Head Type	Price
Mag	2/4 cyl. dist/mag & 1/2 VW	3500	Y2AT3-2	10-01305	Square	---
Mag		8000	Y2AT8-2	10-01690	Square	---
CDI	2 or 6 imp alt (Rotax, 2Si, Hirth, Arcticat)	8000	Y2CT8A-2/6	10-01694	Round	---

Made in the U.S.A

ACS TACHOMETER CABLES

Select the proper length from the listing, but measure old tach cable to verify length in chart is correct for your aircraft, as tach cables can vary from aircraft to aircraft. Over-length cables can cause problems - order one that fits the installation. Select the proper length from the listing, but measure old tach cable to verify length in chart is correct for your aircraft, as tach cables can vary from aircraft to aircraft. Measure original cable from end of Ferrule to end of Ferrule when fully extended. Inner tach cables are measured end to end. Inner assemblies have male ends only. One end is squared and the other is keyed. Tach cable assemblies have 7/8-18 on one end and 5/8-18 on the other, female nuts only.

Custom length tach and inner cables are available. Please contact sales for price and lead time of custom cable. You will be required to provide length and rotation. Additional information of aircraft, engine, make, model & dash number may be required.

Note: General rule for installation: Tach cable should be installed as straight as possible - the inner cable length will decrease 11/16" per 360 degrees of bends.

Available in left and right lay rotation. Add -R to the part number for Right Lay.

Tach Cable Ass'y – Lengths to 4ft (Additional charge per foot for longer lengths.")..... P/N 10-16900 ..... ---

Inner Cable Only – Length is 4ft (Additional charge per foot for longer lengths.)..... P/N 10-22400 ..... ---

See our website for additional lengths.

Part No.	Length	Price	Part No.	Length	Price
10-02675	22"	---	10-00012	46"	---
10-15700	29-1/2"	---	10-16400	42"	---
10-15800	26"	---	10-16500	34"	---
10-15900	29"	---	10-16600	32"	---
10-16000	25"	---	10-16700	35"	---
10-16100	37"	---	10-16900	48"	---
10-16200	36"	---	10-16910	52"	---

UNIVAIR TACHOMETER CABLES

Description	Part No.	Price
Recording Tachometer Cable U1713-R325	05-21949	---
Non-Recording Tachometer Cable U1713-N340	05-21950	---

BELITE RADIANT TACHOMETER

Radiant Tachometer is designed to work with any engine and provides a brilliant, crisp LCD screen with a soft green back light, for easy visibility. The Digital Tachometer / Hour Meter is a general purpose, ignition spark lead based instrument. Mount it anywhere using the included Velcro patch. Works with two or four stroke engines; also includes a job (oil change) interval countdown timer. ..... P/N 10-06872 ..... ---

IN

TACHOMETERS

UMA ELECTRONIC EXPERIMENTAL TACHOMETERS

These electronic tachometers use a 250° sweep meter movement to withstand high levels of vibration and register flight time accurately. The hour meter counts flight hours at RPM settings of 1800 & higher. Power: 12-28VDC. 2-year warranty.

UMA Model#	Range	Description	Part No.	Price
19-819-201	0-7000 RPM	3-1/8" For Rotax 912 Engine B & W Markings, built-in hour-meter	10-00119	---
19-819-211	0-7000 RPM	3-1/8" For Rotax 912 Engine Color Markings	10-04223	---
19-519-211	0-7000 RPM	2-1/4" For Rotax 912 Engine Color Markings	10-01852	---
19-519-213	0-7000 RPM	2-1/4" 3 Pulse Rev Rotax 982	10-05602	---
19-519-216	0-7000 RPM	2-1/4" 6 Pulse Rev Rotax 447 / 503 / 582	10-05603	---
19-811-10C	0-3500 RPM	3-1/8" Electric Lick 6C Sender	10-02116	---
19-801-102	0-3500 RPM	3-1/8" *To replace Mechanical Tachometer (reads CW or CCW; B&W Dial Only) Furnished w/ mechanical sender	10-00120	---
19-801-112	0-3500 RPM	3-1/8" *To replace Mechanical Tachometer (Green Arc 500-2700 - Red 2700) Furnished w/mechanical sender	10-00121	---

UMA 2-1/4" ELECTRONIC TACHOMETERS

These tachs have high resolution and easy to read displays. The analog model has a 250° sweep which provides great resolution in both the 3500 & 7000 ranges. The digital model has a bright LED display. Separate power source required. All tachs require power from a 14 or 28V system. Installations are simple with instructions included.

3500 ANALOG TACH - Lycoming/Continental (to replace mechanical tachs) Current: 37 milliamps Size: 2.25"rnd. X 2.75"deep. Magnetic pickup (6 ft. cable length) included with P/N's 10-02141 and 10-02140 (T1A9). 6 ft. harness, sending unit, and .156 diameter tang adapter included with P/N 10-00083 (1A3-4).

0-3500 RPM, 4 cyl., Pulses:1 ..... P/N 10-02140 ..... ---
0-3500 RPM, 4 cyl., Pulses:2 ..... P/N 10-00083 ..... ---
0-3500 RPM, 6 cyl. ..... P/N 10-02141 ..... ---

7000 ANALOG TACH - Current: 37 milliamps; Size: 2.25" round X 2.75" deep

Rotax 19-519-206 ..... P/N 10-01854 ..... ---
Rotax 912 ..... P/N 10-01853 ..... ---
Rotax 912/914 Lit ..... P/N 10-02053 ..... ---

*** P/N 10-00120, 10-00121, 10-24870, & 10-24885 tachs eliminate the problems associated with mechanical tach cables, and the sending unit is a direct replacement for the tach cable. All models are analog style tachs with hour meters and can read RPM for either clockwise or counter-clockwise revolutions. Sender included. **Slick Mags Only**

EM8000 TACH GENERATOR

EM8000 Quality Tach Generator (4-pole). Aircraft tach generators measure an airplane's engine speed electrically. By using the rotation of a magnet to emit voltage, the frequency of the voltage is measured into revolutions per minute. This rpm is then reported to the tachometer for a visual readout to the pilot.

P/N 08-15987 ..... ---

UMA ELECTRONIC TSO'D TACHS

Owners of Lycoming &d Continental powered airplanes now have an electronic, analog alternative to the old cable driven tachometer. The new UMA tach is certified to FAA TSO C49b standards for fixed wing aircraft. The system uses a tach sender mounted on the engine in place of the mechanical cable and is connected to the indicator with a single, 3-conductor cable. The 3 1/8" indicator utilizes a high torque pivot and jewel movement. The hour meter can be factory set to start at any desired RPM point. This unit gives the pilot the analog display that is easiest to scan and provides electronic accuracy and ease of installation. Custom dial markings in color & internal Electro-Luminescent lighting are available at extra cost. UMA manufactures a complete line of TSO'd & non-TSO'd gauges & instruments in the USA.

UMA Model#	Range	Dial Marking	Part No.	Price
T19-801-10	0-3500 RPM	Black & White	10-01221	---
T19-801-11	0-3500 RPM	Green Arc 500-2700 & Red Line 2700RPM(Lyc.)	10-01222	---
T19-801-112N	0-3500 RPM	TSO w/o Hourmeter	10-07143	---

UMA ELECTRONIC TACHOMETER WITH HOURMETER

3 1/8" Analog Tachometer with hourmeter. 4 Cylinder. 0-3500 RPM. Records engine time above a set RPM point. Standard set point is 1800 RPM. Engine Type: Continental/Lycoming. TSO'd Magnetic pickup for Slick or Bendix Magnetos (6 ft. cable length), alternative to p-lead connections ..... P/N 10-04868 ..... ---

TRU-TACH II DIGITAL TACHOMETER

Mechanical tachometers are notoriously inaccurate. The TruTach II Optical Digital Tachometer measures the true speed of your propeller from inside or outside the aircraft. Just point it at the propeller or rotor blades and TruTach II will directly display the rotational speed with a resolution of 1 RPM. No connection to aircraft systems is required and measurements may be made at any speed setting from 240 to 70000 RPM. Direct display is available for 2, 3, 4, and 5 blade propellers. Digital Signall Processing assures rock-solid display in single and multi-engine aircraft as well as helicopters. The compact 4-inch instrument weighs just 4 ounces and may be used with fast turning ultra-lights and kit plane propellers. Automatic shut-off turns the unit off if you forget. Includes 9 volt battery providing 150 hours of operation.

P/N 10-01021 ..... ---

2-1/4" REMOTE HEAD TACHOMETER

This tachometer is driven with power supplied by a transducer on the engine tach drive. Range 0-3500 RPM. Wt. 6 oz. Includes Gauge, sender, and tang.

Sender only ..... P/N 10-02084 ..... ---
Tang only ..... P/N 444-2 ..... ---

WESTACH TACHOMETERS

KY3GA3-1/2A - 500-3,500 RPM with hourmeter kit, 3-1/8" sq., 1/2 to 1 ratio. adjustable, with 303 DGT sender, 444-2 tang, 208-SS-SS cable.

P/N 10-02644 ..... ---

K3GA3-1/2A - Tachomter 500-3,500 RPM kit, 3-1/8" square, 1/2 to 1 ratio. adjustable with 303DGT sender, 444-2 tang, 208-SS-SS cable. Does not come with a sender ..... P/N 10-02643 ..... ---

Made in the U.S.A

UMA SENDING UNITS FOR TACHOMETERS

UNIT 1A3-4

Sending Unit 1A3-4 only ..... P/N 10-01706 ..... ---

T1A9

Magnetic pickup for Slick or Bendix Magnetos (6 ft. cable lengths)

Slick ..... P/N 10-02432 ..... ---
Bendix ..... P/N 10-02433 ..... ---

IN

ALCOR EGT & CHT SYSTEMS

BASIC EGT & CHT SYSTEMS

FAA and PMA approved for all reciprocating-powered aircraft!

2-1/4" GAUGES

A46125

A46150

A46126

A46151

A46127

A46164

3-1/8" GAUGES

A46124

A46155

A46156

A46157

Instruments: Provide a quick and easy way to troubleshoot and determine an engine's efficiency. Alcor's instruments are known for their quick response time, easy-to-read design and long life. All Alcor instruments are FAA/PMA approved for anything piston-powered that flies! Available in 2 ¼" and 3 1/8" diameters, these instruments can be purchased in single or dual configurations with or without internal lighting. Special order options are also available. All Alcor instruments carry a 3 Year Warranty!

Sensors: Recommended by the most popular manufacturers of digital engine monitoring systems because Alcor sensors are: • Made from the highest-quality materials • FAA approved • Provide fast response time • Built to last • Covered by a 5 Year warranty for grounded probes • Manufactured in the USA!

Basic Systems: Kit includes the 2 ¼" or 3 1/8" instrument, one lead and one sensor for single cylinder EGT or CHT monitoring.

Multi-Cylinder Systems: Kit Includes 2 ¼" or 3 1/8" instrument, all leads, switches and sensors for EGT and CHT monitoring of every cylinder. Alcor's 2 ¼" instrument uses Alcor's Universal Cylinder Selector (UCS) (p/n 80825 or 80827) switch to convert the basic system into an affordable Alcor analyzer!

BASIC SYSTEMS		
System	**Part No.**	**Price**
EGT	10-08700	---
CHT	10-08800	---
EGT/CHT 2-1/4"	10-08900	---
EGT/CHT 3-1/8"	10-20700	---

ANALYZER SYSTEMS		
System	**Part No.**	**Price**
EGT (4Cyl.)	10-09000	---
CHT (4 Cyl.)	10-09100	---
EGT/CHT (4 Cyl.)	10-09200	---
EGT (6 Cyl.)	10-09300	---

IN

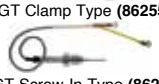
ALCOR PROBES

Alcor's probe (thermocouples) reliability is legendary in the aviation community, designed to give years of dependable and accurate service.

GROUNDED THERMOCOUPLES

ALCOR	Description
86255	EGT Clamp Type Probe min/ max dia.-1.5"to 3.25") (Yellow/ Red, Chrome/Alumel)
86240	EGT Screw-In Probe, fitting dims: 7/16" x 20 threads (Yellow/Red) less boss
86245	EGT Screw-In Probe, fitting dims- 7/16" x 20 threads (Yellow/Red, reverse stagger leads) less boss
28113	Weld Boss
86251	CHT Bayonet Probe (Black/Yellow,
28202	Iron/Constantan) AN5541-1 CHT Bayonet Probe Adapter
86202	CHT Gasket Style Thermocouple. Type: J - Black and Yellow. Grounded Style: Gasket. Size: 18 mm. Resistance: .13 + .16 Ω - .05 Ω. Weight: 0.12 lbs.

EGT Clamp Type **(86255)**

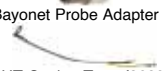

EGT Screw-In Type **(86240** w/ Weld Boss **(28113)**

EGT Screw-In Type **(86245)** (Reverse Stagger Leads) w /Weld Boss **(28113)**

Weld Boss **(28113)**

CHT Bayonet Type **(86251)** w/ Adapter **(28202)**

CHT Bayonet Probe Adapter **(86202)**


CHT Gasket Type **(86202)**

ALCOR 98214 TYPE K THERMOCOUPLE WIRE

Alcor 98214 K Type Thermocouple Wire. 22 awg, 7/30 stranded insulated with FEP. Sold in 50 ft packs.

P/N 05-22849 ..... ---

IMPORTANT! EGT systems & components with red/brown color codes are not compatible with systems & components using red/yellow codes.

ALCOR ALCAL 2000+ SYSTEM TESTER

ALCAL 2000+ EGT/CHT TESTER: The Alcal 2000+ provides everything needed for accurate calibration and troubleshooting of EGT/CHT/TIT, Type K, J, and E systems. The tester will simulate thermocouple output millivolts so that instruments can be calibrated on the ramp or in the shop. The Alcal 2000+ will also receive a millivolt input while testing Alcor and other thermocouples installed in its special heater for accurate analysis at operating temperatures.

The Alcal 2000+ is also designed to check the accuracy of an entire system or the individual components. While the thermocouple is in the heater, the instrument can be read in the panel and recalibrated as necessary while simulating temperatures up to 1750 F. An easy-to-read LCD display makes accurate settings a snap. With its rugged Pelican case, the Alcal 2000+ is ready to use anywhere! Certification of the Alcal 2000+ is traceable to National Institute of Standards and Technology (NIST).

Features:

- Redesigned Pelican case with removable lid for stress-free use in any environment
- Internal carrying handle for tranquil transport and handling with or without the lid
- Additional EGT/TIT Heater that accepts competitors' larger probes and tests both digital and analog systems
- Easy access to the fuse and 9V Lithium battery for quick replacement if necessary
- Plus, all the great features of the Alcal 2000 (FAA/PMA not required)

Specifications:

- 9V Lithium Battery-powered
- 12lbs
- Alcor P/N: 85337

2000+ System Tester ..... P/N 10-04981 ..... ---

Accessories

28187 Gasket Thermocouple Adapter..... P/N 10-04959 ..... ---
35291 EGT Heater 1.28 Hole ..... P/N 10-04956 ..... ---
35309 EGT Heater ..... P/N 10-04953 ..... ---
35311 CHT Heater ..... P/N 10-04957 ..... ---
86188 EGT Reference Thermocouple..... P/N 10-04954 ..... ---
86261 CHT Reference Thermocouple..... P/N 10-04958 ..... ---

ALCOR EGT & CHT COMPONENTS

ALCOR COMPONENT PRICE LIST

Alcor	Our P/N	Description	Price
EGT Leads, Type K			
42525	42525	EGT Leads, Type K (90")	---
42526	42526	EGT Leads, Type K (144")	---
42527	10-00131	EGT Leads, Type K (240")	---
42528	42528	EGT Leads, Type K (216")	---
CHT Leads, Type J			
42535	42535	CHT Leads, Type J (90" 8 ohm)	---
42536	42536	CHT Leads, Type J (144" 8 ohm)	---
42537	42537	CHT Leads, Type J (240" 8 ohm)	---
42543	42543	CHT Leads, Type J (216" 8 ohm)	---
Meters, Single 2-1/4"			
46149	10-03859	EGT Internal light 24V Type K	---
46150	46150	EGT Type K Fahrenheit red and yellow	---
46151	46151	CHT Type J, Fahrenheit black & yellow	---
46162	10-00992	EGT Type K, Fahrenheit (Green Arc)	---
46164	10-00993	EGT Type K,Fahrenheit (No Green Arc)	---
46171	10-00996	CHT Type J, Celsius Black & Yellow	---
46244	10-00997	EGT 240" Lead Type K, Fahrenheit (Green Arc)	---
Meters, Dual 2-1/4"			
46124	10-00994	TIT/TIT Type K, Fahrenheit Red & Yellow	---
46125	10-00126	EGT/EGT Type K Red & Yellow Unlit	---
46188	10-06035	EGT/EGT Type K Lit	---
46126	46126	EGT/CHT Type K & J, Fahrenheit	---
46127	10-00127	CHT/CHT Type J, Fahrenheit	---
Meters, Dual 3-1/8"			
45993	10-00998	EGT Type E Fahrenheit Red and Brown. Designed for twin engine aircraft.	---
46115	10-03861	EGT/EGT 24V Type K. Designed for twin engine aircraft.	---
46155	10-00128	EGT/EGT Type K	---
46156	46156	CHT/EGT Type J & K, Fahrenheit	---
46157	10-03860	CHT/CHT Type J Farenheit	---
46224	10-00999	TIT/TIT Type K, Fahrenheit	---
EGT Probes, Type K			
86143	10-01005	Model N, Screw-In (1/4" NPT)	---
86160	10-01007	Model J1, Screw-In (7/16"-20)	---
86161	10-01008	Model K, Screw-In (1/4" NPT)	---
86226	10-01009	Model A, Clamp, 11.56" length (Reverse Stagger)	---
86230	10-01011	Model N2, Screw-In (1/4" NPT)	---
86240	10-00129	Model B, Screw-In (7/16-20)	---
86245	86245	Model B,Screw-In(7/16"-20) (Reverse Stagger)	---

Alcor	Our P/N	Description	Price
EGT Probes, Type K			
86255	86255	Model A, Clamp (Normal Stagger)	---
86275	10-01012	Model A, Clamp, 13.6" (Rev. Stagger)	---
86281	10-01013	Model A, Clamp C/A Extended Lead	---
CHT Probes			
86202	86202	Gasket Style Type J 18mm	---
86251	86251	Bayonet Style Type J	---
86252	10-04949	Bayonet Style, Type K, Red/Yellow, reverse stagger	---
86253	10-04951	Bayonet Style Probe CHT 3/8-24, Type K, screw-in probe and supersedes 86252-3. This unit is also a replacement for Garmin probe 86252	---
Parts and Accessories			
35309	10-04953	EGT Heater (1004-6)	---
86188	10-04954	EGT Reference Thermocouple (1004-7)	---
35291	10-04956	EGT Heater .128 Hole	---
35311	10-04957	CHT Heater (1004-26)	---
86261	10-04958	CHT Reference Thermocouple	---
28187	10-04959	Gasket Thermocouple Adapter (1004-72)	---
Ungrounded EGT Probes			
86307	10-86307	Screw-In (1/4 NPT)	---
86341	10-04952	Red/Yellow, Screw-in (1/8 NPT)	---
86308	10-86308	Screw-In (7/16-20)	---
86309	10-86309	Screw-In (7/16-20), Extended Lead	---
86310	10-86310	Clamp - 2.35" max	---
86343	10-86339	Clamp (with Plug, Short) 3.25"max	---
Accessories			
28113	10-01017	Weld Boss 7/16 UNF (for B Probe)	---
28202	28202	CHT Adapter for Bayonet Probe (AN4076-1)	---
28204	10-01018	Plug for 28113 Weld Boss.	---
42523	10-01019	EGT Lead Stagger Adapter. Type K	---
80825	80825	Universal Selector Switch - 7 inputs	---
80827	80827	Universal Selector Switch - 4 section	---
Vernier			
93882	10-01020	Vernier Control Assembly 112"	---
Alcor, CHT Parts			
28202	28202	Bayonet Thermocouple Adapter (1004-4)	---
38091	05-22271	Alcor 38091 Hardware Kit designed to provide the essentials while installing probes 86245, 86252, 86253, and 86255.	---

WESTACH INSTRUMENTS

2-1/4" ENGINE INSTRUMENTS

Guaranteed accurate within 2% with a 1-yr. warranty. Weight - an unbelievable 4oz. These instruments are self powered by the thermocouple, except for the lighting.

CYLINDER HEAD TEMPERATURE

100-700°F ..... P/N 2A1 ..... ---
25°–375°C ..... P/N 2A1-2 ..... ---
SENDERS: CHT Senders have 4 ft. leads.
14mm gasket type
(VW, Rotax) ..... P/N 712-4W ..... ---
18mm gasket type (Cont, Lyc.)
P/N 712-5W ..... ---
Bayonet type 3/8" x 24 thread ..... P/N 712-7D ..... ---
Bayonet type 1/8" NPT thread ..... P/N 712-7DJ ..... ---
(All Rotax) ..... P/N 712-912K ..... ---

EXHAUST GAS TEMPERATURE

700-1700°F/350-950°C .... P/N 2A2 ..... ---
100-1900°F/100-1000C ... P/N 2A2-1 ..... ---
400-900°C ..... P/N 2A2-2 ..... ---
4000-1600°F/200-850°C .. P/N 2A2-7 ..... ---

SENDERS - Clamp type senders with 3/16" diameter probe. EGT Senders have 4 ft leads.

1" long tip ..... P/N 712-2DWK ..... ---
1/2" long tip ..... P/N 712-20DWK ..... ---
Long tip 1/4" threads ..... P/N 712-4D ..... ---
3/8-24 for Lycomings ..... P/N 712-4D1 ..... ---
Long tip for VW (1/12" OD tailpipe) ..... P/N 712-24DWK ..... ---
(All Rotax) ..... P/N 712-32DWK ..... ---
Bayonet K type, EGT probe for Rotax ..... P/N 712-4D6K ..... ---
Exposed Tip, model 712-20DWKE - Hose clamp style 1/2" probe.
P/N 10-01300 ..... ---

Note: Westberg 712 Series Thermocouples are for Non-TSO'd CHT & EGT Gauges only. They have two small pins which are the same size.

OIL TEMPERATURE

100° - 260°F ..... P/N 2A9-2* ..... ---
Sending Unit ..... P/N 399S7 ..... ---
*Use Sender #399S9-7/8 for Cont & Lyc Engines.
(5/8-18 Thread) ..... P/N 399S9 ..... ---

OIL PRESSURE

Guaranteed accurate within 2% with a 1-year warranty. Weight an unbelievable 4oz.
K2A8MM. 0-80 PSI (w/sender)
P/N 10-01292 ..... ---

MANIFOLD PRESSURE GAUGE

2-1/4" Size 0-30 PSI & 0-50 PSI. Not Altitude Compensated (square)
2A4-14 - 0-50 IN HG.... P/N 10-04178 ..... ---
2A6-6 - 0-30 IN HG..... P/N 10-04797 ..... ---

WESTACH VOLTMETERS

Westach voltmeters, 2" round. Made in USA

Range	Pat No.	Price
18-28 VOLT	10-04184	---
15-50 VDC	10-04185	---

FUEL LEVEL GAUGES (SQUARE)

2-1/4 Non-TSO'd fuel quantity indicators available for single or dual tanks. Require 0-5V capacitance senders (not included)
Instrument (Single) ..... P/N 2A7V ..... ---
Instrument (Dual) ..... P/N 2DA4V ..... ---
2A7-2, 0-30 OHM ..... P/N 10-04125 ..... ---
2A7, 240-30 OHM, Uses Float Sender
P/N 11-01210 ..... ---
2AHT7V, Full Sweep Meter ..... P/N 10-04121 ..... ---
Sender (6"-12"Depth) ..... P/N 10-00797 ..... ---
AP-24-D120-5V Sender (12"- 24" Depth) ..... P/N 10-03875 ..... ---
395-5-5 6" Capacitance, non-bend sender ..... P/N 10-04344 ..... ---
395-5SB-5 Sender (6"-12" Depth-Bend.) ..... P/N 10-00798 ..... ---
395-5S-1B-5 Sender (12"-24" Depth-Bend) ..... P/N 10-01262 ..... ---
AP24B5-D120-SV Sender (24", 5" bend. section) . P/N 10-04412 ..... ---
Capacitance sender 12" long, 3" bend section ... P/N 10-05725 ..... ---
Capacitance sender 24" long, 3" bend section ... P/N 10-05738 ..... ---

FUEL LEVEL GAUGES (ROUND)

2C7V, 2" Round ..... P/N 10-04119 ..... ---
22C7, 240-30 OHM,
Uses Float Sender ..... P/N WS2C7 ..... ---
2CHT7V-5, Fuel Sweep Meter.. P/N 10-04120 ..... ---

WESTACH WATER TEMPERATURE GAUGE

2A9-1 Water Temperature Gauge 100-260f, 2 1/4" square, 8-30 VDC.
2-1/4" Westach Water Temp. Gauge Only
P/N 2A9-1 ..... ---
Westach Sender #399S1 Only
P/N 10-01288 ..... ---
Westach 2-1/4" Water Temp. Gauge with Sender
P/N 10-04948 ..... ---

OUTSIDE AIR TEMPERATURE

Square Gauge ..... P/N 2A3-3 ..... ---
Round Gauge ..... P/N 10-04131 ..... ---

CARBURETOR AIR TEMP

Provides instant icing check of carburetor.
2A3-1 - 2-1/4" square, -50°C to 50°C
P/N 10-01243 ..... ---
2C3-1 - 2" round, -50°C to 50°C
P/N 10-03949 ..... ---
Sending Unit - Fits 1/4-28 Thread
P/N 399W ..... ---

COOLANT TEMPERATURE

100° to 260°F, for aircraft and helicopters using coolants other than oil ..... P/N 10-01301 ..... ---

WESTACH EGT/CHT COMBINATION KITS

HOMEBUILDERS ENGINE ANALYZER KITS

Complete kits include CHT or EGT gauge, selector switch and probes for each cylinder of 4 or 6 cylinder engine. EGT kits furnished with long-life #712-2DWK probes.

Kit	4 Cyl.		6Cyl.	
	Part No.	Price	Part No.	Price
14MM CHT Kit	10-17114	---	---	---
18MM CHT Kit	---	---	10-17218	---
EGT Kit	10-17300	---	10-17400	---

HOMEBUILDERS ADD-ON KITS

Add-on kits for single-position system already installed. Consists of selector switch & 3 or 5 probes for CHT or EGT to provide analyzer for 4 or 6 cylinder engines. EGT kits furnished with long-life #712-2DWK probes.

Kit	4-Cyl.		6-Cyl.		Type "k" probe	
	Part No.	Price	Part No.	Price	Part No.	Price
CHT Kit	10-01064	---	10-01066	---	10-03892	---
EGT Kit	10-01065	---	10-01067	---	---	---

MADE IN THE U.S.A

*** These instruments may be powered by connection to 12V battery, magneto, distributor or alternator. If installation is to be made using other than 12V electric power, order one Magneto Adapter, P/N 103-18 ($6.30) and one Fuse Adapter, P/N 10-17000 ($6.30) for each instrument. For 24V operation, order one Adapter, P/N 329-24 ($2.30) for each instrument.**

WESTACH INSTRUMENTS

MADE IN THE U.S.A

AMMETERS (SQUARE)

Westach Ammeter, amp -30-0-+30A adc, 2 1/4" square, 50 mv f/s. Model with or without shunt.
With Shunt.....P/N10-01267 ..... ---
Without Shunt.....P/N 10-04116 ..... ---
-60 to +60A, & #237-3A Shunt
.....P/N K2A6-15 ..... **Set** ---

WESTACH AMMETER 2A6-15 (SQUARE)

Westach Ammeter, amp -60-0-+60 adc, 2 1/4"square, 50 mv f/s.
With Shunt.....P/N 10-01277 ..... ---
Without Shunt.....P/N 10-04114 ..... ---

WESTACH AMMETER 2C6-22 (ROUND)

Westach Ammeter, amp -30-0-30 adc, 2" round, 50 mv f/s. Note: Gauge does not include shunt. Range: -60-0-30 adc. Size: 2" round. Shunt: Model 237-30
Ammeter 2C6-22.....P/N 10-04108 ..... ---
Shunt #237-30.....P/N 10-01306 ..... ---

WESTACH AMMETER 2C6-15 (ROUND)

Westach Ammeter, amp -60-0-60 adc, 2"round, 50 mv f/s. Note: Gauge does not include shunt. Range: -60-0-60 adc. Size: 2" Round. Shunt (Not Included): Model 237-60
Ammeter 2C6-15.....P/N 10-04104 ..... ---
Shunt #237-60.....P/N 10-01298 ..... ---

HOURMETER

Power Range, 5V-40V, Record running time of engine.
P/N 2A10-2..... ---
No sender required.

VOLTMETERS

Check generator & alternator charging
6-16 VDC .....P/N 2A5..... ---
0-35 VDC .....P/N 2A5-2..... ---
No sender required.

WESTACH 2C4-7 GAUGE

Boost 0-30 psi, 2-Inch round, with 220-9, 203-17, 203-21
P/N 10-04155 ..... ---

SELECTOR SWITCHES

These switches are used with the Westach CHT, EGT, or CHT/EGT gauges to allow multiple cylinder engine analyzing. Switches included with Engine Analyzer kits & Add-On kits on following pages, or can order separately below. Non-TSO'd. These switches have two small connectors of same size.
2-Position .....P/N 254-2F..... ---
4-Position .....P/N 254-4F..... ---
4-Position (Dual) .....P/N 254-4DF* ..... ---
6-Position .....P/N 254-6F..... ---

***To convert dual EGT/CHT to Engine Analyzer.**
FAA APPROVED SWITCHES

These switches are furnished with 96" leads.

WESTACH INSTRUMENT LIGHTING

An internal lighting fixture may be added to all 2" & 3" instruments. Comes with clear bulb and red & green boots ..... P/N 10-01229 ..... **---ea**

WESTACH BULLET CONNECTORS

Bullets are used to connect sockets and sleeves together on the back of Westach instruments.....P/N 10-02795 ..... ---

WESTACH INSTRUMENTS FOR ULTRALIGHTS

Single CHT .....P/N 10-00419 ..... ---
Single EGT .....P/N 10-01268 ..... ---
Thermocouple for CHT (14MM) .....P/N 10-01227 ..... ---
Probe for EGT .....P/N 10-01225 ..... ---

SINGLE TACH (Tachometer requires no sender.)

Model	RPM	Powered By	Part No.	Price
2CT8A-2/6	0-8000	CDI	10-01302	---

DUAL TACH/CHT (All CHT's are 0-600° F)

Model	RPM	Powered By	Part No.	Price
2DC9-8A-2/6	0-8000	CDI	10-02911	---

WESTACH 2DC8 DUAL CHT

Cylinder Head Temp. Range: 100-700°F. Use 48" Type J thermocouples. Input: 9.81 mv @ 400F, Weight: 2.7 oz.
P/N 10-01791 ..... ---

BULLET SHELL MOUNTING CASE
FOR 2" ROUND WESTACH GAUGES

Molded plastic housing clamps to ultra-lite tubing or motorcycle handle bar. Swivels 360° at any angle. Furnished with chrome plated installation hardware..... P/N 10-01290 ..... ---

WESTACH TACHOMETERS
FOR DUAL IGNITION

2" Round .....P/N 10-01302 ..... ---
2" Square .....P/N 2AT8A-2/6 ..... ---
3" Square .....P/N 3AT8A-2/6 ..... ---

WESTACH SENDER 720-14RB

Proximity sensor, Hall effect sender for Bendix mag. 9/16 - 24 thd. 5-12 VDC. Weight: 7 ounces
P/N 10-00863 ..... ---

WESTACH EXTENSION LEADS

Complete extension leads, with connector terminals, for extending CHT or EGT leads up to Complete extension leads, with connector terminals, for extending CHT or EGT leads up to 10 ft. without affecting accuracy. Longer lengths give low reading, requiring recalibration of instrument.
18" Lead ....P/N 10-17900 .....--- 10 Ft. Lead. P/N 10-18300..... ---
12 Ft. Lead P/N 10-18350 .....---

WESTACH GAUGE WIRE EXTENSION LEADS

10' and 5', 4 wire and 2 wire "Extension Leads" ideal for quick and easy extending CHT, EGT or Tach leads with simple slide together female ends. Female connectors on both ends mate with male posts on gauge backs and sender ends. Extensions will not effect gauge readings.
10 Ft. 4 Wire .....P/N 15-05341 ..... ---
5 Ft. 4 Wire .....P/N 15-06258 ..... ---
5 Ft. 2 Wire .....P/N 15-06259 ..... ---

IN

WESTACH INSTRUMENTS

MADE IN THE U.S.A.

2-1/4-INCH DUAL INSTRUMENTS SAVE PANEL SPACE (SUPREME SPACE SAVERS)

TWO INSTRUMENTS IN **ONE** 2-1/4" SIZE CASE - PERFECT FOR THE HOME BUILDER

All pressure instruments come complete w/pressure senders only (matched to instrument). On all other instruments, order senders at bottom of page.

DUAL EGT-CHT
700-1700°F EGT
100-700°F CHT
P/N 2DA1....---

DUAL EGT 700-1700°F
P/N 2DA2....---

DUAL OIL PRESSURE OIL TEMPERATURE
0-80 PSI/100-260°F
P/N 2DA3MM....---
Complete w/ oil pressure sender.

DUAL CHT
100-700°F
P/N 2DA8....---
Celsius version
P/N 2DA8-2....---

DUAL FUEL LEVEL
Uses capacitance type senders. 5V output. P/N 2DA4V....---
2DA4 (Old Style) E-F 240-30OHM Float....---

DUAL VOLT-AMMETER
6-16V/0-30 A
P/N K2DA10-21....---
6-16KV/0-60 amp
P/N K2DA10-18....---
Complete with Shunt

DUAL CARB TEMP-OUTSIDE AIR TEMP
-50° to +50° C.
P/N 2DA3-8....---
Order 399W & 399-0T
Senders Separately

3-1/8" WESTACH GAUGES

TWIN CHT
3-1/8" Size; Wt. 10 Oz., 100-800°F
P/N 3DA8....---
Order 2 thermocouples

TWIN EGT
3-1/8" Size, Wt. 10 Oz.
700-1700°F
P/N 3DA2....---

COMBINATION EGT & CHT
3-1/8" size, Wt.10oz., 700-1700°F/ 100-800°F.
P/N 3DA1....---
Order 1 EGT probe & 1 thermocuople.

RECORDING TACHOMETER
3-1/8" size Runs directly off magneto. 12V power required to run Hour Meter
0-3500 RPM
P/N Y3AT32....---

EGT – CHT GAUGES
3-1/8" Square EGT
P/N 3A2-1....---
Square CHT P/N 3A1....---
3-1/8" Round
CHT P/N 3C1....---

All Pressure Instruments come complete with Pressure Senders only (matched to Instrument). On all other instruments order senders at bottom of page.

IN

SPACE SAVING GAUGES - THE WESTACH QUADS

Four electric instruments in one standard size 3-1/8" aircraft case. Weight - only 6 oz. Guaranteed for accuracy within 2%. 1 year warranty. Get four "like" readings or four different ones. Order Senders below except for pressure instruments.

QUAD CHT
P/N 3AQ1....---

QUAD EGT.
P/N 3AQ2....---

QUAD COMBO CHT/EGT OIL PRESS/OIL TEMP
P/N 3AQ4MM....---

OTHER QUAD COMBOS AVAILABLE:

3AQ1-14 ..... CHT/Volts/EGT/Amps.....--- Quad Fuel Gauge.....WS3AQ9 .....---

Over 75 Quad Combos available. Request availability of unlisted models.

***With Senders**

WESTACH SENDERS

EGT

712-2DWK (Long Life) 1" Tip .....P/N 10-01225 ..... ---
712-20DWK 1/2" Tip.....P/N 10-01233 ..... ---
712-4D (1/4" Plpe Bayonet) .....P/N 10-01253 ..... ---
712-4D1 (3/8"-24 for Lycomings) .....P/N 10-01282 ..... ---
712-4D6K (.8-1MM Bayonet for Rotax).....P/N 10-01240 ..... ---
712-4D2 (1/8" NPT).....P/N 10-01263 ..... ---

CHT

712-5W (18 MM Thermocouple) .....P/N 10-01226 ..... ---
712-4W (14 MM Thermocouple) .....P/N 10-01227 ..... ---
712-7D (3/8-24 Bayonet).....P/N 10-01230 ..... ---
712-9W (10MM Thermocouple) .....P/N 10-01259 ..... ---

Oil Temp-399S7 1/8" NPT.....P/N 10-01249 ..... ---
Oil Temp-399S9 (cont., lyc.) .....P/N 10-01236 ..... ---
Fuel Level- 6"-12" Depth .....P/N 10-00797 ..... ---
AP-Q12B3-D120-5V Capacitance fuel level sender 12" long P/N 10-00798 ..... ---
AP-Q24B3-D120-5V Capacitance fuel level sender 24" long P/N 10-01262 ..... ---
Temp Send-10X1.5mm thread, 1" tip, 4' lead, with crush washer 1,750 ohms @ 100F.....P/N 10-02641 ..... ---
Temp Send 10X1.5mm thread, 5/8" tip, 4' lead, with crush washer 1,750 ohms @ 100F.....P/N 10-02642 ..... ---
Westberg SS Trans-0-100 psi, 1/8" npt .....P/N 10-02640 ..... ---

VISIT OUR WEBSITE FOR CUSTOM QUAD GAUGES!

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

UL FLIGHT LINE INSTRUMENTS

UL FLIGHT LINE 2 INCH CHT GAUGE

Gauge electrical, bezel black dial, black, white, pointer red Indicating instrument electrical, black bezel, black dial, white character, pointers red.
• Front: Flat; Black
• Glass: Flat
• Pointer: Red, Hub Black, Night Design
• Dial Face: Background Dull Black, White, Red, Green
• Installation: Fixation Ring
• Operating Temperature: 50°C - 150°C / 120°F - 300°F
• Voltage: 12
• Dimension: 52 mm
• Engines: 912A, 912F, 912UL, 912S, 912ULS, 914F, 914UL
• Illumination: LED White, Dimmable

2" CHT 50-150C 150-300F.....P/N 13-16017 ..... ---
2" CHT 50-150C 125-300F .....P/N 13-16026 ..... ---

UL FLIGHT LINE 2 INCH FUEL LEVEL 0-4/4 UL LSA 12V DLT

Gauge electrical, bezel black dial, black, white, pointer red indicating instrument electrical, black bezel, black dial, white character, pointers red.

2" Fuel Level 0-4/4 Ul DLT3-180 .....P/N 13-16019 ..... ---
2" Fuel Level 0-4/4 Ul DLT5-60/90 .....P/N 13-16020 ..... ---

UL FLIGHT LINE 2 INCH GAUGE

Gauge electrical, bezel black dial, black, white, pointer red indicating instrument electrical, black bezel, black dial, white character, pointers red.
• Front: Flat; Black
• Glass: Flat
• Pointer: Red, Hub Black, Night Design
• Dial Face: Background Dull Black, White, Red, Green
• Installation: Fixation Ring
• Operating Temperature: 25°C - 65°C / 120°F - 300°F
• Voltage: 12
• Dimension: 52 mm
• Engines: 912A, 912F, 912UL, 912S, 912ULS, 914F, 914UL
• Illumination: LED White, Dimmable

2" Oil Pressure Gauge 0 - 10 Bar ..... P/N 13-16021 ..... ---
2" Oil Temperature Gauge 0-10 Bar 0-150 PSI . P/N 13-16025..... ---

UL FLIGHT LINE 2 INCH TACHOMETER

Gauge electrical, bezel black dial, black, white, pointer red indicating instrument electrical, black bezel, black dial, white character, pointers red.

2" Engine Tach 0-7000 12v .....P/N 13-16023 ..... ---
2" Rotor Tach 0-7000 12v .....P/N 13-16024 ..... ---

UL FLIGHTLINE WING FLAP INDICATOR

Indicating Instrument Electrical. LED Backlight Technology. Stepper Motor. Low Weight. Character White. Wing Flap Sensor.
Specifications:
• Operating voltage: 12 • Installation diameter: 52mm • Resistance range: 3.180 • Special: MF, Option Warn-LED.

Indicator.....P/N 10-06466 ..... ---
Angle Transmitter .....P/N 10-06467 ..... ---

UL FLIGHT TEMP GAUGE

Gauge electrical, bezel black dial, black, white, pointer red Indicating instrument electrical, black bezel, black dial, white character, pointers red.
P/N 13-19001 ..... ---

UL FLIGHT LINE TEMP SENDER

UL Flight Line Temp Sender 150C M10x1 M10x5 T-6 T-3.
P/N 13-16029 ..... ---

UL FLIGHT LINE 2 INCH FUEL PRESSURE GAUGE

Fuel Pressure Gauge Rotax Flight Line. Gauge electrical, bezel black dial, black, white, pointer red indicating instrument electrical, black bezel, black dial, white character, pointers red.
• Front: Flat; Black • Glass: Flat • Pointer: Red, Hub Black, Night Design • Dial Face: Background Dull Black, White, Red, Green • Installation: Fixation Ring • Bar: 0 - 1 • Voltage: 12 • Dimension: 52 mm • Engines: 912A, 912F, 912UL, 912S, 912ULS, 914F, 914UL • Illumination: LED White, Dimmable.
P/N 13-16022 ..... ---

UL FLIGHT LINE 2 INCH VOLTMETER

Gauge electric, incident-light, black bezel, black dial, white, pointer red Indicating instrument electrical, floodlight illumination, black bezel, black dial, white character, pointers red. 8-16V UL / LSA.
• Front: Flat; Black • Glass: Flat • Pointer: Red, Hub Black, Night Design • Dial Face: Background Dull Black, White, Red, Green • Installation: Fixation Ring • Operating Temperature: 8°C - 16°C • Voltage: 12 • Dimension: 52 mm • Engines: 912A, 912F, 912UL, 912S, 912ULS, 914F, 914UL • Illumination: LED White, Dimmable.....P/N 13-16027 ..... ---

UL FLIGHT LINE FUEL PRESSURE CONNECTOR CABLE

UL Flight Line Fuel Pressure Connector Cable.
• Connection: 3-wire DLPHI Packard
• Engines: 912A, 912F, 912UL, 912S, 912ULS, 914F, 914UL.....P/N 13-16018 ..... ---

UL FLIGHTLINE 2 INCH FUEL LEVEL GAUGE

Fuel level gauge for float-operated sensor UL/LSA. Indicating instrument electrical, LED backlight technology, stepper motor, low weight, character white.
Specifications:
• Operating voltage: 12
• Installation diameter: 52mm
• Volume range: 0.1/2.1
• Resistance range: 3.18
• Special: MF, Option Warn-LED
P/N 10-06471 ..... ---

UL FLIGHTLINE FLOAT OPERATED SENSOR RIGHT WING

Float-operated sensor. Robust passivated metal housing.
Specifications: • Dimensions float-operat. sensor install. lateral: 156 / 148 / 107 • Full resistance: 180 • Empty resistance: 3 • Diameter of pitch circle and angle: 54 / 72°; 68°; 80°; 68°; 72° • Operating voltage: 6.24 • Electrical connection: DIN 6.3x0.8

Right Wing Sensor.....P/N 10-06468 ..... ---
Left Wing Sensor .....P/N 10-06469 ..... ---

FUEL LEVEL SENDERS

ISS Fuel Sender LH 6-12 Tank.....P/N 10-01099 ..... ---
ISS Fuel Sender RH 6-12 Tank .....P/N 10-01101 ..... ---
ISS Fuel Sender LH 10-15 Tank.....P/N 10-01102 ..... ---
ISS Fuel Sender RH 10-15 Tank .....P/N 10-01103 ..... ---
ISS Fuel Sender LH 15-.5-24.....P/N 10-01104 ..... ---
ISS Fuel Sender RH 27-36" Tank .....P/N 10-01107 ..... ---
ISS Fuel Sender Gasket .....P/N 10-01097 ..... ---

IN

MITCHELL AIRCRAFT INSTRUMENTS

2-1/4" ELECTRIC GAUGES

Mitchell Aircraft Instruments is a high quality, economical line of gauges which is ideal for the homebuilt aircraft market. These electric instruments are lighted, allow easy installation, and feature a 2 year factory warranty. Order gauges and senders separately as shown. 12V operation unless other wise noted. Gauges fit 2-1/4 panel hole. For 24 volt operation, order P/N PE-111-4074 Resistors ($3.50 each) for each instrument.

OIL TEMPERATURE

100-250° F Gauge ..... P/N 10-25000 ..... ---
100-250° F Sender (Rotax) P/N 10-25005 ..... ---
100-250° F Sender (LYC).. P/N 10-25175 ..... ---
120-300° F Gauge ..... P/N 10-25010 ..... ---
120-300° F Sender (Rotax) P/N 10-25015 ..... ---
120-300° F Sender (LYC).. P/N 10-25180 ..... ---

Rotax Senders are 1/8-18 NPT, Lycoming Senders are 5/8-18 VNF.

OIL PRESSURE

0-80 PSI Gauge.....P/N 10-25030 ..... ---
0-80 PSI Sender.....P/N 10-25035 ..... ---
0-100 PSI Gauge.....P/N 10-25040 ..... ---
0-100 PSI Sender.....P/N 10-25045 ..... ---
0-145 PSI Gauge use with Rotax sender.
P/N 10-03928 ..... ---
0-150 PSI Gauge.....P/N 10-25050 ..... ---
0-150 PSI Sender.....P/N 10-25055 ..... ---

FUEL PRESSURE

0-30 PSI Gauge .....P/N 10-25060 ..... ---
0-15 PSI Gauge.....P/N 10-25058 ..... ---
0-15 PSI Sender.....P/N 10-25065 ..... ---

EXHAUST GAS TEMPERATURE

0-1600°F EGT Gauge.... P/N 10-02746 ..... ---
KIT - Includes Sender, Weld-on adapter and 6 Ft. Lead with/ connector. 0-1600 EGT kit
P/N 10-25090 ..... ---

CYLINDER HEAD TEMPERATURE

120-300F Gauge .....P/N 10-02717 ..... ---
18MM Sender (Continental, Lycoming)
P/N 10-25075 ..... ---
10 Ft. CHT Lead w/connector
P/N 10-25185 ..... ---

MITCHELL 2-1/4" MECHANICAL GAUGES

OIL TEMPERATURE

110 - 270 F. 6 foot capillary supplied
P/N 10-02714 ..... ---

OIL PRESSURE

0-100 PSI.....P/N 10-02706 ..... ---
0-150 PSI.....P/N 10-02712 ..... ---

FUEL PRESSURE

0-15 PSI.....P/N 10-02702 ..... ---

MITCHELL D1-112-5240 ROTAX 912 TACHOMETER

Mitchell 2-1/4 Inch Mechanical Recording. FAA-TSO Approved. D1-112-5240 Special-Rotax 912
P/N 10-02744 ..... ---

AMMETER

60-0-60 Ammeter
P/N 10-25115 ..... ---

FUEL LEVEL

(10-180 ohm) . P/N 10-25130..... ---
(0-90 ohm) ..... P/N 10-02719..... ---
(0-30 ohm) ..... P/N 10-02721..... ---
(240-33 ohm).. P/N 10-02722..... ---
Senders
(10-180 ohm).. P/N 10-25135..... ---
(0-90 ohm) ..... P/N 10-02172..... ---
(240-33 ohm).. P/N 10-02173..... ---

VOLTMETER

P/N 10-25105 (8-16V) ..... ---
P/N 10-02747 (12-31V) ..... ---
No Sender required.

CYLINDER HEAD TEMP GAUGE

For Rotax 120-300°
P/N 10-02717 ..... ---
Sender: Probe Supplied w/ Rotax Engine.

ROTAX OIL PRESSURE PRESSURE

2-1/4" Electric 24V 0-150 PSI
P/N 10-03928 ..... ---
For use with Rotax Senders.

GAUGE WIRING KIT

Fits all 2-1/4" Mitchell Gauges .....P/N 10-02724 ..... ---

MITCHELL MODULAR INSTRUMENTS

MITCHELL MINIATURE MODULAR GAUGES

This line of miniature engine gauges from Mitchell is ideal for a wide variety of general aviation applications. They measure nearly 1.5" square and are stackable. The modular design allows them to be plugged from the front of the panel. The units are internally lighted. Complete standard panels are also available as shown in the steps below. All modular gauges after April 03, 2017 feature a new connector configuration. New style gauges will fit into existing frames but require changing the mating connector plate. Previous style connectors are now obsolete and no longer available.

Step 1 - Select your gauge(s) from the list below:

Choose 14 volt or 24 volt

Note range marking for gauge(s) (free if information given at time of instrument cluster order)

Step 2 - Select your sendor(s) for gauge(s) from the list below:

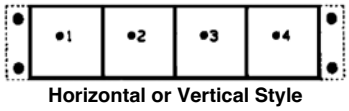
Any sendor with a * can also use a Rotax Engine Sender

Gauge Part Number		Gauge Description	Price
Spruce #	Mitchell #		
Pressure Gauges			
10-03621	D1-211-6060	Fuel Pressure 80 PSI	---
10-10150	D1-211-6061	Fuel Pressure 15 PSI (FAA/PMA)	---
10-10152	D1-211-6064	Fuel Pressure 30 PSI	---
10-04094	D1-211-6065	0 – 2 bar Fuel	---
10-04139	D1-211-6097	Oil Pressure 150 PSI 10Bar	---
10-02725	D1-211-6092	Oil Pressure 150 PSI (FAA/PMA)	---
10-10166	D1-211-6090	Oil Pressure 100 PSI (FAA/PMA)	---
10-02726	D1-211-6093	Oil Pressure 80 PSI	---
10-10168	D1-211-6091	0 – 9 bar Oil	---
10-04095	D1-211-6094	0 – 7 bar Oil	---
10-04096	D1-211-6095	0 – 5 bar Oil	---
10-02723	D1-211-6089	Liquid Pressure 80 PSI	---
Temperature Gauges			
10-02279	D1-211-6068	Oil Temp 100F-250F (FAA/PMA)	---
10-10154	D1-211-6066	Oil Temp 120F-300F (FAA/PMA)	---
10-10155	D1-211-6067	Oil Temp 40C-120C	---
10-02728	D1-211-6069	Oil Temp 50C-150C	---
10-10156	D1-211-6088	Liquid Temp 100F-250F	---
10-02746	D1-211-6101	EGT 0F-1600F	---
10-10170	D1-211-6102	CHT 100F-600F	---
10-02745	D1-211-6109	CHT Rotax 120F-300F	---
Voltmeter Gauges			
10-10164	D1-211-6086	Voltmeter 8-16 volts (FAA/PMA	---
10-10165	D1-211-6087	Voltmeter 12-31 volts	---
Ammeters Gauges			
10-10174	D1-211-6104	ammeter 45-0-45 amp	---
10-10176	D1-211-6106	ammeter 75-0-75 amp (FAA/PMA)	---
Fuel Quantity Gauges			
10-02730	D1-211-6071	right Fuel 240-30 omh	---
10-03610	D1-211-6072	left Fuel 240-33 ohm	---
10-03613	D1-211-6073	Fuel gauge 240-33 ohm	---
10-10158	D1-211-6074	right Fuel 10-180 omh (FAA/PMA)	---
10-10160	D1-211-6075	left Fuel 10-180 ohm (FAA/PMA)	---
10-10162	D1-211-6076	Fuel gauge 10-180 ohm (FAA/PMA)	---
10-03614	D1-211-6077	right Fuel 0-30 ohm	---
10-03615	D1-211-6078	left Fuel 0-30 ohm	---
10-03616	D1-211-6079	Fuel gauge 0-30 ohm	---
10-03617	D1-211-6080	right Fuel 0-92 ohm	---
10-03618	D1-211-6081	left Fuel 0-92 ohm	---
10-03620	D1-211-6082	Fuel gauge 0-92 ohm	---
Blank			
10-02740	D1-211-6010	blank face gauge (FAA/PMA)	---

Sender Part Number		Sender Description	Price
Spruce #	Mitchell #		
Pressure Senders			
10-25035	PS-211-9002	Pressure Sender 80 PSI	
10-25065	PS-211-9000	Pressure Sender 15/30 PSI (FAA/PMA)	---
10-25065	PS-211-9000	Pressure Sender 15/30 PSI	---
10-25065	PS-211-9000	Pressure Sender 15/30 PSI	---
Rotax engine Sender			
10-25055	PS-211-9040	Pressure Sender 150 PSI (FAA/PMA)	---
10-25045	PS-211-9039	Pressure Sender 100 PSI (FAA/PMA)	---
10-25035	PS-211-9002	Pressure Sender 80 PSI	---
10-25055	PS-211-9040	Pressure Sender 150 PSI	---
10-25045	PS-211-9039	Pressure Sender 100 PSI	---
10-25035	PS-211-9002	Pressure Sender 80 PSI	---
10-25035	PS-211-9002	Pressure Sender 80 PSI	---
Temperature Sendors			
10-25005	PS-211-8044	Temp Sender 1/8 250F (FAA/PMA)	---
10-25175	PS-211-8045	Temp Sender 5/8 250F (FAA/PMA)	---
10-25015*	PS-211-8090	Temp Sender 1/8 300F (FAA/PMA)*	---
10-25180*	PS-211-8112	Temp Sender 5/8 300F (FAA/PMA)*	---
10-25005	PS-211-8044	Temp Sender 1/8 250F	---
10-25175	PS-211-8045	Temp Sender 5/8 250F	---
10-25015*	PS-211-8090	Temp Sender 1/8 300F*	---
10-25180*	PS-211-8112	Temp Sender 5/8 300F*	---
10-25005	PS-211-8044	Temp Sender 1/8 250F	---
10-25175	PS-211-8045	Temp Sender 5/8 250F	---
10-02177	PS-211-8163	EGT Sender clamp - type K	---
10-25075	PS-211-8168	CHT Sender 18mm - type J	---
10-25076	PS-211-8156	CHT Sender probe	---
External Shunts			
10-10184	PS-211-9100	45 amp shunt	---
10-10185	PS-211-9101	75 amp shunt (FAA/PMA)	---
Sender Resistance (E- F)			
10-25135	PS-211-8038	Fuel Sender 10-180 ohm (FAA/PMA)	---
10-25135	PS-211-8038	Fuel Sender 10-180 ohm (FAA/PMA)	---
10-25135	PS-211-8038	Fuel Sender 10-180 ohm (FAA/PMA)	---

Step 3 - Select your frame for your gauge(s) from the list below

Select what postion your gauge(s) will go into. Postions are counted left to right (block style), top to bottom (vertical) starting at #1



Horizontal or Vertical Style

Block Style

Spruce #	Mitchell #	Gauge Capacity	Configuration	Price
10-02964	PM-211-9811	1 Gauge	1 Gauge	---
10-04084	PM-211-6826	2 Gauges	1 Wide 2 High	---
10-02739	PM-211-6808	2 Gauges	2 Wide 1 High	---
10-04083	PM-211-6824	3 Gauges	1 Wide 3 High	---
10-04079	PM-211-6809	3 Gauges	3 Wide 1 High	---
10-04020	PM-211-6825	4 Gauges	2 Wide 2 High	---
10-04082	PM-211-6823	4 Gauges	1 Wide 4 High	---
10-01710	PM-211-6805	4 Gauges	4 Wide 1 High	---
10-04080	PM-211-6810	5 Gauges	1 Wide 5 High	---
10-01711	PM-211-6806	5 Gauges	5 Wide 1 High	---
10-02738	PM-211-6807	6 Gauges	1 Wide 6 High	---

Spruce #	Mitchell #	Gauge Capacity	Configuration	Price
10-01712	PM-211-6804	6 Gauges	6 Wide 1 High	---
10-01708	PM-211-6803	6 Gauges	3 Wide 2 High	---
10-04097	PM-211-6802	6 Gauges	2 Wide 3 High	---
10-04081	PM-211-6822	7 Gauges	1 Wide 7 high	---
10-04091	PM-211-6833	7 Gauges	7 Wide 1 High	---
10-01709	PM-211-6801	8 Gauges	1 Wide 8 High	---
10-03915	PM-211-6800	8 Gauges	2 Wide 4 High	---
10-04085	PM-211-6827	9 Gauges	3 Wide 3 High	---
10-04087	PM-211-6829	10 Gauges	2 Wide 5 High	---
10-04086	PM-211-6828	10 Gauges	5 Wide 2 High	---
10-04092	PM-211-6835	15 Gauges	5 Wide 3 High	---

SWIFT NON-TSO'D ENGINE GAUGES

SWIFT TACHOMETERS

Swift Gauge Tachometers feature both clock-wise and standard pointer type configurations. Swift Gauge Universal Tachometers can be used for both point and Ducati ignitions.

Size"	Description	Model	Range	Part No.	Price
2	Standard Pointer Type Tach.	TR-001D	0-8000 RPM CDI	10-00831	---
2	Standard Pointer Type Tach."	TR-003	"0-8000 RPM Univer-sal Point and CDI"	10-01615	---
2-1/4	Standard Pointer Type Tach.	T2-001U	0-8000 RPM Univer-sal Point and CDI	10-00816*	---
2-1/4	Standard Pointer Type Tach.	T2-004	"0-8000 RPM For MZ 202 Engine"	10-04039	---
3-1/8	Standard Pointer Type Tach.	T3-001U	"0-8000 RPM Univer-sal Point and CDI"	10-00817*	---
2-1/4	Standard Pointer Type Tach.	R280D	0-8000 RPM Ducatti Ignition	10-00818	---

*Works with Rotax-point & CDI Ignition, but not 912/914 engines.

SWIFT CHT GAUGES

Swift Gauge Cylinder Temperature Gauges work with most 2 cycle 2 cylinder engines.

Size"	Description	Model	Range	Part No.	Price
3 1/8	Gauge CHT / CHT Dual	C3-002	100-700°F / 100-700°F	10-02280	---
3 1/8		C3-002C	0-340°C / 0-340°C	10-02281	---
2 1/4		C2-002	100-700°F / 100-700°F	11-03960	---
2 1/4		C2-002C	0-340°C / 0-340°C	10-01421	---
2 Round		CR-002	100-700°F / 100-700°F	10-00486	---
2 Round		CR-002C	0-340°C / 0-340°C	10-01416	---
3 1/8	Gauge CHT Single	C3-001	100-700°F	10-02283	---
3 1/8		C3-001C	0-340°C	10-02284	---
2 1/4		C2-001	100-700°F	11-03958	---
2 1/4		C2-001C	0-340°C	11-03959	---
2 1/4		--	120-300°F	10-06457	---
2 Round		CR-001	100-700°F	10-01412	---
2 Round		CR-001C	0-340°C	10-01413	---
10 x 1.5 mm	CHT Sender	CP-001	Screw-in type, 4 feet metal shield wire	10-04051	---
10mm		CP-010	10mm dia. ring, 4 ft metal shield wire	10-01438	---
12mm		CP-012	12mm dia. ring, 4 ft metal shield wire	10-02286	---
14mm		CP-014	14mm dia. ring, 4 ft metal shield wire	10-02287	---
18mm		CP-018	18mm dia. ring, 4 ft metal shield wire	10-02288	---

SWIFT EGT GAUGES

Size"	Description	Range	Part No.	Price
3 1/8	EGT / EGT Dual"	700-1700°F / 700-1700°F	10-02290	---
3 1/8		200-900°C / 200-900°C	10-02291	---
2 1/4		700-1700°F / 700-1700°F	10-00487	---
2 1/4		200-900°C / 200-900°C	10-02292	---
2		700-1700°F / 700-1700°F	10-01453	---
2		200-900°C / 200-900°C	10-01454	---
3 1/8	EGT Single"	700-1700°F	10-02289	---
3 1/8		200-900°C	10-02293	---
2 1/4		700-1700°F	10-01457	---
2 1/4		200-900°C	10-01450	---
2		700-1700°F	10-01449	---
2		200-900°C	10-01458	---
8X1.0mm	EGT Sender"	"8X1.0mm Screw-in Style 4 Feet Metal Shield Wire"	10-00489	---
Clamp		"1" - 1-3/4" Clamp Style 4 Feet Metal Shield Wire"	10-02294	---
Clamp		"1-1/4" - 2" Clamp Style 4 Feet Metal Shield Wire"	10-00488	---

SWIFT GAUGE 2 1/4 INCH VOLTMETER 8-16V

Swift Gauge 2 1/4" Voltmeter. Colored dial markings with illuminated pointer. The graduation spacings of the scale at both ends have been reduced, making it easier to read in the range of 10 to 14 volts. Size: 2 1/4". Range: 8-16V. Similar to Falcon Gauge.....P/N 10-06456 ..... ---

SWIFT COMBINATION GAUGES

Swift Gauge Temperature Gauges work with most 2 cycle 2 cylinder engines.

Size"	Description	Range	Part No.	Price
3 1/8	CHT / EGT	0-340°C/ 400-900°C	10-02296	---
2 1/4	CHT / EGT	100-700°F / 700-1700°F Square	10-01404	---
2 1/4		0-340°C/400-900°C Square	10-01405	---
2 1/4	CHT / TACH	100-700°F / 0-8000 RPM	10-02317	---
2 1/4		0-340°C / 0-8000 RPM	10-02318	---
2	CHT / EGT	100-700°F / 700-1700°F	10-01400	---
2		0-340°C/ 400-900°C	10-01401	---
2	CHT / TACH	0-8000 RPM/ 340°C	10-04034	---
2	EGT / TACH	0-8000 RPM/ 400-900°C	10-04036	---
2-1/4	EGT / TACH	0-8000 RPM/ 700-1700°F	10-04049	---
2-1/4	EGT / TACH	0-8000 RPM/ 375-925°C	10-04050	---

SWIFT WATER TEMPERATURE / PRESSURE & OIL TEMPERATURE/PRESSURE GAUGES

Size"	Description	Model	Range	Part No.	Price
2-1/4	Water Temp.	WT-001	100-260°F / 40-120°C	10-02320	---
2 Rnd.		WT-001R	100-260°F / 40-120°C	10-02321	---
2 Rnd.	Oil Temp.	OT-001R	120-300°F / 50-150°C	10-03404	---
2-1/4		OT-001	120-300°F / 50-150°C	10-03403	---
2 Rnd.	Oil Pressure	OP-060-001R	60 PSI	10-04063	---
2 Rnd.	Oil Press / Oil Temp. Dual	OPT080-001R	120-300°F / 80 PSI	10-04052	---
2-1/4		OPT080-002	120-300°F / 80 PSI	10-04054	---
2 Rnd.		OPT100-001R	120-300°F / 100 PSI	10-04053	---
2-1/4		OPT100-002	120-300°F / 100 PSI	10-04055	---
2-1/4		OPT06-002C	50-150°C/6kg/cm2	10-04066	---
-	Oil Pressure Transducer	SP-150PV	0-150 PSI, 10 Bar 5V	10-04056	---
-		SP-100PV	0-100 PSI, 7 Bar 5V	10-04057	---
2-1/4	Dual Oil Temp	PT2-7K15C	50-150C, 7kg	10-04064	---
2		PT1-7K15C	50-150C, 6kg	10-04065	---
2-1/4		PT2-6K15C	50-150C, 6kg	10-04066	---
2		PT1-6K15C	50-150C, 6kg	10-04068	---
"1/8" NPT"	"1/8"" NPT Oil Temp.	OTS-001	"1/8" NPT Oil Temp. Sender"	10-03406	---
10X 1.5mm	Oil Temp. Sender	OTS-002	"Oil Temp. Sender For Rotax 914, 912"	10-03407	---
5/8"	Lyc. Oil Temp. Sender	OTS-03	For Gauges 10-03403/10-03404	10-05840	---

SWIFT FUEL QUANTITY INDICATOR

The Swift Gauge Fuel quantity indicator's resistance Empty R=240 Ohms Full R=40 Ohms. The Swift Gauge Fuel quantity sender is electronic capacitance type. 12" can be cut down to 9.5" 24" can be cut down to 12.5"

Size"	Description	Model	Part No.	Price
2-1/4	Single Gauge, 5V Input	F2-001-5	10-02264	---
2-1/4	Dual Gauge, 5V Input	F2-002-5	10-02265	---
2 Round	Single Gauge, 5V Input	FR-001-5	10-03873	---
2 Round	Dual Gauge, 5V Input	FR-002-5	10-03874	---
2"	Dual Fuel level 5V w/Alarm	DF1-VA	10-04034	---
2-1/4"	Dual Fuel level 5V w/Alarm	DF2-VA	10-04036	---

SWIFT ENGINE GAUGE EXTENSION CABLES

Swift Gauge extension wire is used to lengthen the existing wire that comes with engine gauges. It is temperature compensated wire. Available in lengths of 4-10 ft, 2 or 4 conductors. Pins must be crimped onto wire.

Size	Model No.	Description	Part No.	Price
4'	Wire-042	2 Conductor, 4 Feet	10-02339	---
4'	Wire-044	4 Conductor, 4 Feet	10-02340	---
6'	Wire-062	2 Conductor, 6 Feet	10-02341	---
6'	Wire-064	4 Conductor, 6 Feet	10-02342	---
8'	Wire-082	2 Conductor, 8 Feet	10-02344	---
8'	Wire-084	4 Conductor, 8 Feet	10-02345	---
10'	Wire-102	2 Conductor, 10 Feet	10-02346	---
10'	Wire-104	4 Conductor, 10 Feet	10-02347	---

IN

Swift Gauges are made in China.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SWIFT NON-TSO'D ENGINE GAUGES

SWIFT TACHOMETER

2-1/4"

3-1/8"

Size	Description	Range	Part No.	Price
2-1/4"	Tach Ducati Engine	0-8000 RPM	10-00818	---
2-1/4"	Engine Tach	0-3500 RPM	10-06336	---
2-1/4"	Engine Tach w/ Hourmeter	0-3500 RPM	10-06337	---
2-1/4"	Rotor Tach	700 RPM	10-06338	---
2-1/4"	Rotax 912/914 Tach	0-7000 RPM	10-06339	---
2-1/4"	Rotax 912/914 Tach w/ Hourmeter	0-7000 RPM	10-06340	---
2-1/4"	Rotax 582 Hirth Tach	0-8000 RPM	10-06341	---
2-1/4"	Rotax 582 Hirth Tach w/ Hourmeter	0-8000 RPM	10-06342	---
3-1/8"	Engine Tach	0-3500 RPM	10-06343	---
3-1/8"	Engine Tach w/ Hourmeter	0-3500 RPM	10-06344	---
3-1/8"	Rotax 912/914 Tach	0-7000 RPM	10-06345	---
3-1/8"	Rotax 912/914 Tach w/ Hourmeter	0-7000 RPM	10-06346	---

SWIFT DUAL

FUEL LEVEL GAUGES

Size	Description	Range	Part No.	Price
2"	Dual Fuel Level w/ Alarm	0-5V	10-04044	---
2-1/4"	Dual Fuel Level w/ Alarm	0-5V	10-03418	---

SWIFT AMMETERS

Size	Description	Range	Part No.	Price
2"	Ammeter	60A-0-60A	10-05843	---
2-1/4"	Round Ammeter	+/- 60A	10-05842	---
2-1/4"	Round Ammeter	60A-0-60A 6-16V	10-03414	---

SWIFT MANIFOLD PRESSURE GAUGE

Swift MAP2-50 Integrates the Highly Reliable MEMS Sensor: Precise, Durable Wide Voltage Supply Range 9-30 VDC. 10-50 inch Hg ABS. Colored Dial Markings. Size: 2 1/4".....P/N 10-06454 ..... ---

SWIFT TACH/CHT/EGT GAUGES

2"

2-1/4"

Size	Description	Range	Part No.	Price
2-1/4"	Round Tach CHT	0-8000 RPM/340°C	10-04034	---
2-1/4"	Round Tach CHT	0-8000 RPM/100-700°F	10-01626	---
2-1/4"	Round Tach CHT/EGT	0-8000 RPM/400-900°F	10-04036	---
2-1/4"	Tach /EGT	0-8000 RPM/700-1700°F	10-04049	---
2-1/4"	Tach /EGT	0-8000 RPM/ 375-925°C	10-04050	---
2-1/4"	CHT Compatable with J Type Probes	50-150°C/120-300°F	10-06333	---
2-1/4"	CHT Compatable w/Rotax Sensors	50-150°C/120-300°F	10-06334	---
2-1/4"	Oil Pressure	0-10 BAR/145 PSI	10-06335	---

SWIFT OIL TEMP GAUGES

2-1/4"

Size	Description	Range	Part No.	Price
2-1/4"	Oil Temp	50-150°C/120-300°F	10-06347	---
2"	Dual Oil Temp	50-150°C / 6KG	10-04068	---
2"	Dual Oil Temp	50-150°C / 7KG	10-04065	---
2-1/4"	Dual Oil Temp	50-150°C / 7KG	10-04064	---

SWIFT OIL PRESSURE GAUGES

Size	Description	Range	Part No.	Price
2-1/4"	Oil Pressure	0-10 BAR / 145 PSI	10-06335	---
-	Oil Pressure Sensor	0-100 PSI / 7 Bar / 0.5-4.5V	10-04057	---
-	Oil Pressure Sensor	0-150 PSI / 10 Bar / 0.5-4.5V	10-04056	---

SWIFT SPEED SENSORS

Model No.	Dimensions	Description	Part No.	Price
SS1-12P	12x60	Proximity, -500Hz, NPN, N.O.	10-06275	---
SS1-12H	12x26	Hall effect, -1000Hz, NPN, N.O.	10-06277	---
SS1-18P	18x68	Proximity, -500Hz, NPN, N.O.	10-06278	---
ST-4128-4	1/4"-28 Thread, 1/4" Tip, 58" Leads	Temp probe - Screw in PT100 Thermistor -400-180°F/-40-80°C	10-06276	---

IN

MGL VEGA 2 1/4" COLOR INSTRUMENTS

MGL VEGA AIRSPEED INDICATOR

Measures airspeed from 16mph to 250mph and is well suited to slow aircraft due to very good sensitivity and linearity at low air speeds. Includes a flight timer since takeoff. Airspeed units can be set to miles per hour (mph), kilometer per hour (km/h) or knots (kts). Analog tape with programmable ranges for Vs0, Vs1, Vfe, Vno and Vne. Contains a programmable Vs and Vne airspeed alarm output. Records maximum airspeed reached in permanent memory .....P/N 11-15989 ..... ---

MGL VEGA AIRSPEED INDICATOR / VSI

Meet the World's most lightweight and compact, fully integrated inertial measurement instruments (IMU's) and digital compasses.
The AHRS-1 is a 2 1/4" sunlight readable color display instrument providing a display for an artificial horizon reference system (AHRS), an advanced digital compass, or both depending on which sensor packages are connected.
P/N 11-16721 ..... ---

MGL VEGA ALT-5 ALTIMETER / VSI

An internal high accuracy 24 bit digital altitude sensor calculates altitude from –1000 ft up to a maximum of 35000 ft (-304m to 10668m). The ALT-5 outputs various formatted RS232 serial data protocols compatible with serial input transponders such as that from Garmin, Magellan, Northstar, Trimble, Microair etc. Provides a parallel Gillham code interface for transponders when used in combination with the MGL Avionics CNV-ALT. Built in encoder test function. The altimeter can display altitude in feet or meters. Local pressure can be set in millibars or inches of mercury. Contains a wide range VSI indicator from +/-20 ft/min to as high as +/-10000 ft/min. VSI units can be in feet/minute (ft/min) or in meters/second (m/s).....P/N 11-15988 ..... ---

MGL VEGA ASV-1 ALTIMETER / ASI / VSI

An internal high accuracy 24 bit digital altitude sensor calculates altitude from –1000 ft up to a maximum of 35000 ft (-304m to 10668m). The ASV-1 outputs various formatted RS232 serial data protocols compatible with serial input transponders such as that from Garmin, Magellan, Northstar, Trimble, Microair etc.. Provides a parallel Gillham code interface for transponders when used in combination with the MGL Avionics CNV-ALT. Built in encoder test function. The altimeter can display altitude in feet or meters. Local pressure can be set in millibars or inches of mercury. Contains a wide range VSI indicator from +/-20 ft/min to as high as +/-10000 ft/min. VSI units can be in feet/minute (ft/min) or in meters/second (m/s). Measures airspeed from 16mph to 250mph and is well suited to slow aircraft due to very good sensitivity and linearity at low air speeds. Includes a flight timer since takeoff. Airspeed units can be set to miles per hour (mph), kilometer per hour (km/h) or knots (kts). Contains a programmable Vs and Vne airspeed alarm output. Records maximum airspeed reached in permanent memory.
P/N 11-15990 ..... ---

MGL VEGA AHRS-1 COLOR AHRS COMPASS DISPLAY

Compass with slip indicator (requires MGL Avionics SP-6 sensor package). Horizon with optional slip, turn indicator & G-Force (requires MGL Avionics SP-7/9 sensor package). Turn and bank indicator (requires MGL Avionics SP-7/9 sensor package). Combined compass and horizon display with bank indicator, slip indicator & G-Force (requires MGL Avionics SP6 & SP-7/9 sensor package). Can be setup as an individual compass display, artificial horizon or both. The AHRS-1 / MAG-1 is connected to the AHRS / Compass sensor packages by a simple CAN bus interface. This allows for the optimum placement of the sensor packages in the aircraft. More then one AHRS-1 unit can be connected onto the CAN bus. This allows the compass, artificial horizon and the turn and bank indicator to be displayed on different units. G-Force indicator (MGL Avionics SP7 required) .....P/N 11-15983 ..... ---

MGL VEGA MAP-3 MANIFOLD PRESSURE / RPM TEMP

Advanced fuel computer with various modes of operation. Supports single or dual fuel tanks. The FF-4 can connect to one or two fuel flow senders, fuel level senders or fuel injectors. The FF-4 can connect to a single fuel pressure sender. Differential fuel flow calculations are also supported for fuel return systems. The FF-4 has the ability to connect to a NMEA enabled RS232 GPS receiver for range based calculations. It can also accept a manually entered estimate cruising speed if a GPS is not available. Standard automotive fuel level senders can be used, even with odd shaped tanks due to a comprehensive, multi-point calibration system. External RDAC interfacing via the CAN bus. An external output activates when an alarm condition has been reached. .....P/N 11-15992 ..... ---

MGL VEGA TEMPERATURE/PRESSURE/VOLTS

The TP-3 is a 2 1/4" sunlight readable 4 channel universal analog input color display instrument. Each channel can be individually programmed to display either pressure, temperature, current or volts from a universal analog input that can interface to many sensors such as oil temperature, coolant temperature, oil pressure, fuel pressure, manifold pressure, boost pressure and many more.
The TP-3 can display any combination of 1 to 4 analog channels in a horizontal / vertical bargraph or a numeric display format.
P/N 11-16579 ..... ---

MGL VEGA FF-4 FUEL COMPUTER

Advanced fuel computer with various modes of operation. Supports single or dual fuel tanks. The FF-4 can connect to one or two fuel flow senders, fuel level senders or fuel injectors. The FF-4 can connect to a single fuel pressure sender. Differential fuel flow calculations are also supported for fuel return systems. The FF-4 has the ability to connect to a NMEA enabled RS232 GPS receiver for range based calculations. It can also accept a manually entered estimate cruising speed if a GPS is not available. Standard automotive fuel level senders can be used, even with odd shaped tanks due to a comprehensive, multi-point calibration system. External RDAC interfacing via the CAN bus. An external output activates when an alarm condition has been reached. .....P/N 11-15991 ..... ---

MGL VEGA RPM-1 UNIVERSAL ENGINE / ROTOR RPM INDICATOR

Single or dual RPM display screens. Dedicated dual rotor / engine tachometer.
Includes a settable Hobbs meter which is password protected. Includes an engine running and flight timer. Includes a programmable maintenance timer for scheduled routine engine maintenance. Includes a magneto check function. Records maximum RPM reached for each channel. External RDAC interfacing via the CAN bus. An external output activates when a high alarm condition has been reached.
P/N 11-15993 ..... ---

MGL VEGA TC-4 THERMO-COUPLE EGT/CHT INDICATOR

5 different temperature display screens. Supports J, K and E type thermocouple probes. Temperatures can be displayed in °C or °F from -100°C to 1200°C (-148°F to 2192°F). High accuracy: Built in thermocouple linearization curves and cold junction compensation. Records maximum temperatures reached for each channel. Includes a trend graph display of each thermocouple channel. Engine leaning function according to peak EGT temperatures. Engine cruise mode to instantly identify changing EGT/CHT trends. External RDAC interfacing via the CAN bus. An external output activates when a high alarm condition has been reached.
P/N 11-15994 ..... ---

MGL VEGA COLOR G-FORCE AND INFO

The INFO-1 is a 2 1/4" sunlight readable multi-function color display instrument.
The INFO-1 has the following features:
• G-force meter • UTC and Local Time display
• Slip indicator • Battery Voltage, Current and Charge display • OAT display
P/N 11-16578 ..... ---

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MGL BLAZE 3 1/8" COLOR INSTRUMENTS

MGL BLAZE AIRSPEED INDICATOR

The ASI-5 is a 3 1/8" sunlight readable instrument that provides a wide range airspeed indication in both digital and analog tape formats. Airspeed is based on the pressure generated by a pitot tube system and a static port is provided as well for use in high speed aircraft. In addition, the ASI-5 provides a flight timer since takeoff and records the maximum airspeed reached. Airspeed can be indicated in statute miles per hour (mph), kilometers per hour (km/h) or knots (kts). The analog airspeed tape can be scaled according to the aircraft's flying speed range and ranges for Vs0, Vs1, Vfe, Vno and Vne can be set. The ASI-4 also provides a programmable Vs and Vne airspeed alarm output. ASI sensitivity can be calibrated by the user to cater for errors caused by pitot tube placement. .....P/N 11-16584 ..... ---

MGL BLAZE AIRSPEED / VSI

The ASV-2 is a 3 1/8" sunlight readable encoding altimeter, airspeed and wide range vertical speed indicator. The altimeter contains an internal high accuracy 24 bit digital altitude sensor which calculates altitude from -1000 ft up to a maximum of 35000 ft. The ASV-2 outputs various formatted RS232 serial data protocols compatible with serial input transponders such as that from Garmin, Magellan, Northstar, Trimble, Microair etc. The altimeter can display altitude in feet or meters and local pressure can be set in millibars or inches of mercury.....P/N 11-16586 ..... ---

MGL BLAZE ALTIMETER / VSI

The ALT-6 is a 3 1/8" sunlight readable encoding altimeter and a wide range vertical speed indicator. The altimeter contains an internal high accuracy 24 bit digital altitude sensor which calculates altitude from -1000 ft up to a maximum of 35000 ft. The ALT-6 outputs various formatted RS232 serial data protocols compatible with serial input transponders such as that from Garmin, Magellan, Northstar, Trimble, Microair etc. The altimeter can display altitude in feet or meters and local pressure can be set in millibars or inches of mercury. The VSI indicator can be displayed in either feet/minute (ft/min) or meters/second (m/s). The VSI can be calibrated by the user once the instrument has been installed in the aircraft. ..... P/N 11-16582 ..... ---

MGL BLAZE ENCODING ALTIMETER / VSI

The ALT-7 is a 3 1/8" sunlight readable encoding altimeter and a wide range vertical speed indicator. The altimeter contains an internal high accuracy 24 bit digital altitude sensor which calculates altitude from -1000 ft up to a maximum of 35000 ft. The ALT-7 outputs various formatted RS232 serial data protocols compatible with serial input transponders such as that from Garmin, Magellan, Northstar, Trimble, Microair etc. The altimeter can display altitude in feet or meters and local pressure can be set in millibars or inches of mercury. The VSI indicator can be displayed in either feet/minute (ft/min) or meters/second (m/s). The VSI can be calibrated by the user once the instrument has been installed in the aircraft. .....P/N 11-16583 ..... ---

MGL BLAZE AHRS / COMPASS

The AHRS-2 / MAG-2 is a 3 1/8" sunlight readable color display instrument providing a display for an artificial horizon reference system (AHRS), an advanced digital compass, or both depending on which sensor packages is connected.

P/N 11-16581 ..... ---

MGL BLAZE TEMPERATURE / PRESSURE / VOLTS

The TP-4 is a 3 1/8" sunlight readable 4-channel universal analog input color display instrument. Each channel can be individually programmed to display either pressure, temperature, current or volts from a universal analog input that can interface to many sensors such as oil temperature, coolant temperature, oil pressure, fuel pressure, manifold pressure, boost pressure and many more. The TP-4 can display any combination of 1 to 4 analog channels in a horizontal / vertical bargraph or a numeric display format. .....P/N 11-16595 ..... ---

MGL BLAZE FUEL COMPUTER

The FF-5 is a 3 1/8" sunlight readable color display instrument intended for efficient monitoring of fuel related information for single or dual fuel tanks. The FF-5 has many display configurations based on single/dual flow senders, single/dual level senders and a fuel pressure sender. Full functionality is available with a fuel flow and level sender or only with a fuel flow sender using calculated fuel levels based on fuel usage. Differential fuel flow calculations are also supported for fuel return systems. Fuel injector systems are also supported. Standard automotive fuel level senders can be used, even with odd shaped tanks due to a comprehensive, multi-point calibration system. Most fuel flow senders can be used as the K-factor of the sender can be entered into the system for simple calibration..... P/N 11-16587 ..... ---

MGL BLAZE G-FORCE AND INFO

The INFO-2 is capable of measuring g-forces exerted in an aircraft up to +-16g. The INFO-2 also has the facility to record the maximum positive and negative g-forces encountered (typically during a flight) in permanent memory, with a password protected reset facility. It also features two independent cycle counters to capture the amount of times a preset force has been exceeded. The INFO-2 is able to measure g-forces even if the instrument is not mounted exactly on the vertical axis of the aircraft. Also Displays: • UTC and Local Time display • Slip indicator • Battery Voltage, Current and Charge display • OAT display • Flight Timer & Flight log.

P/N 11-16588 ..... ---

MGL BLAZE MANIFOLD PRESSURE / RPM

The MAP-4 is a 3 1/8" sunlight readable Manifold pressure indicator which can simultaneously display RPM and temperature from a universal RPM and temperature input. The manifold pressure display is also available in the form of a scalable analog bar graph if the RPM input is not displayed. The MAP-4 also has a Hobbs meter (can be set to the current engine time) which is password protected, an engine running timer/ flight timer and a programmable maintenance timer to schedule routine engine maintenance. The MAP-4 also features a programmable low/high alarm for manifold pressure, RPM and temperature, a handy magneto check function to easy diagnose magneto problems as well as it records the maximum manifold pressure, RPM and temperature reached in permanent memory .....P/N 11-16589 ..... ---

MGL BLAZE RPM INDICATOR

The RPM-2 is a 3 1/8" sunlight readable color display instrument providing two universal RPM inputs that is primarily intended to measure engine and/or rotor RPM. The display can be configured to display single or dual RPM or it can be configured to display engine and rotor RPM as used in helicopters and gyroplanes. The RPM-2 also has a maximum values display screen as well as a handy magneto check function. The RPM-2 includes a number of timers such as a Hobbs meter which can be set to the current engine time and is also password protected, an engine running and flight timer as well as a programmable maintenance timer to schedule routine engine maintenance. .....P/N 11-16591 ..... ---

MGL BLAZE 4-CHANNEL TEMP DISPLAY

4-channel Thermocouple (EGT/CHT) Monitor. The TC-5 is a 3 1/8" Sunlight readable 4 channel thermocouple color display instrument. Instrument can be configured for 5 different temperature display screens. The display can be configured to group EGTs and CHTs to common settings or each thermocouple channel can be independently displayed with individual programmable high alarm and probe type. The TC-5 also has a trend graph and maximum values display screen.....P/N 11-16593 ..... ---

MGL BLAZE 12-CHANNEL TEMP DISPLAY

12-channel Thermocouple (EGT/CHT) Monitor

The TC-6 is a 3 1/8" sunlight readable 12 channel thermocouple color display instrument that contains all the features necessary to monitor EGT's and CHT's. The TC-6 can be configured to display up to 12 thermocouples in an easy to read bargraph format. In addition the TC-6 has an individual programmable EGT and CHT alarm with an external output that can switch an external visual alarm indicator such as a lamp. The TC-6 also has a EGT and CHT trend graph and maximum values display screen.

P/N 11-16594 ..... ---

MGL BLAZE COLOR UNIVERSAL ENGINE MONITOR

The Blaze EMS-2 is a 3 1/8" universal engine monitor color display instrument. The EMS-2 contains all the necessary functionality to replace several engine monitoring instruments. The EMS-2 light weight, small size and high level of functionality makes it an excellent choice for all types of engines.

The EMS-2 can also be interfaced via the CAN bus to an optional external RDAC unit (Remote Data Acquisition Computer). This allows for easier installation as the RDAC unit is normally mounted in the engine compartment.....P/N 11-16722 ..... ---

IN

FUEL TOTALIZERS - FUEL GAUGES

SHADIN MINIFLO TOTALIZERS

MINIFLO SYSTEMS - Miniflo is the miniature fuel flow meter which constantly displays fuel flow in the lower windows. The fuel used and fuel remaining functions are continuously computed and can be displayed in the upper window by pressing the appropriate button. Endurance (time remaining) can be displayed in the upper window by using the rotary switch. STC's for most aircraft. Power: 12-28V DC Furnished in gallons readout (pounds also available). Weight: 31 oz. (meter& transducer). Size: 3.25"x 1.25"x 7.5". Miniflo now provides all features of standard Miniflo system plus a Loran interface as described in Digiflo above. This gives the pilot NM/Gal, Gallons to Destination and Gallons of Reserve. Specify aircraft and engine model on all Miniflo orders.Prices vary according to aircraft model.

Single Engine GPS Miniflo ..... P/N 10-24735 **CALL FOR PRICE**

SHADIN DIGIFLOW TOTALIZERS

Digiflo-L is a Digital Fuel Management System designed to provide complete fuel management information under real flight conditions without any manual entry of data (after eztry of the initial fuel on board information).Digiflo-L is connected to the engine fuel flow transducer for fuel flow information and to the Loran-C or GPS receiver serial port for navigation data (ground speed, distance and estimated time en route).This system is also capable of transmitting the fuel information to the Bendix/King KLN-88, KLN-90, and Garmin GPS navigation receivers, for additional calculations and display of fuel management data.

Single Engine GPS Digiflo ..... P/N 10-02212 ...**Please Call**
Twin Engine GPS Digiflo ..... P/N 10-02213 ...**Please Call**

SHADIN F/ADC-200 FUEL/AIR DATA COMPUTER

The affordable Shadin F/ADC-200 Fuel/Air data computer maximizes aircraft range and fuel economy by providing automatic updating to your GPS for true air speed, winds aloft, wind components, density altitude, OAT, pressure altitude, fuel flow rate, fuel used, fuel required to destination, fuel endurance, and more. Interfaces with most popular GPS units including Bendix King KLN series, Garmin 150, 155, 165, Trimble 2000/3000 series, and Arnav. Please specify aircraft make/model, engine make/model, serial number of aircraft, and GPS make/model at time of order ..... P/N 10-24768 ...**Please Call**

IMPORTANT: For all Shadin orders, please specify engine make and model number; aircraft make and model number; specify gallons, pounds or liters on readout and if Loran or GPS will interface. Specify make and model.

SHADIN SYSTEMS PRICING - Prices for Shadin Microflo, Digiflo, & Miniflo systems vary according to aircraft/engine models. Call Aircraft Spruce for your best pricing on any Shadin system. Aircraft Spruce guarantees to meet or beat any competitor's current advertised prices.

FUEL LEVEL SYSTEM BY DATCON

This Datcon fuel gauge and senders are designed for use with 12 volt electrical systems in automotive, marine and homebuilt aircraft applications. The gauges have a round 2" diameter case with chrome bezel. Mounting brackets and instructions are furnished. 240-33 Ohms. Gauge No. 100177 with steel case

P/N 100177 ..... ---
Lighting Kit (12V) ..... P/N 06215-00 ..... ---

UNIVERSAL SENDER FOR DATCON GAUGES

This Fuel Level Sender has removable mounting plate which can rotate 180° to mount on either right hand or left hand position. For tanks 6"-15" deep.

P/N 05-16710 ..... ---

SPIRAL ACTION FUEL GAUGE

A precision magnetic gauge for narrow vertical tanks. Rubber float travels on spiral rod to record fuel level on hermetically sealed side-reading dial marked E, 1/4, 1/2, 3/4, F. All aluminum construction. Housing has 1-1/2" NPT male threads for connection to threaded bushing (see below). Available in two lengths:

Length 'L' 15", Float Travel 12-3/4" ..... P/N 05-16900 ..... ---
Length 'L' 19", Float Travel 16-3/4" ..... P/N 05-17000 ..... ---

Welding Bushings - 6061 aluminum, 2-1/4" O.D., 1/4" wall. Available in 1" & 2" length. Use with welding ring to provide base for attaching to fuel tank with bolts or rivets. Ring may be welded at any point along bushing to permit depth adjustment. Specify bushing length. For use with Spiral Action Gauge.

1"Bushing ..... P/N 10362-1 ..... ---
2"Bushing ..... P/N 10362-2 ..... ---

Welding Ring - 6061 aluminum, 4-3/8" O.D., 2-1/4" I.D. to fit above welding bushings. For use with Spiral Action Gauge.

P/N 10363 ..... ---

ROCHESTER 8341-R7090 SENDER

These fuel senders are designed for top mounting in unpressurized aluminum, stainless steel, or plastic fuel tanks in all types of marine vessels. They include special features and protection from corrosion problems (internal and external to the fuel tanks) which make them the quality standard for the industry. Standard configuration, with the lead hole at 12:00, has the float arm swinging at 3:00. The float arm on this sender is 24" [609mm] long measured from the pivot point allowing it to be cut to an appropriate length to gauge any tank depth from 6" [152mm] to 25" [635mm]. The float and the washers are furnished unassembled to the float arm. The cutting and crimping process is to be done prior to the float assembly. The fuel sender is equipped with a thick film resistance card with a range of 0 to 90Ù. The recommended gasket for use under the head is made of nitrile rubber and must be ordered separately ..... P/N 10-02045 ..... ---

MECHANICAL FUEL GAUGE

Lever-action gauge measures fuel level from full to empty on fractional dial. Matte-white markings on 2" black dial with red "No Take-off" sector below the 1/4 full mark. Cork float has 4" travel. Wire arm 12" long may be cut off to required length, wire bent to 90° angle to secure cork float. 1-13/16" between mounting hole centers. Hermetically sealed dial assembly has magnetically driven, silicone-damped or position pointer to prevent flutter ..... P/N 05-16700 ..... ---

Accessories

Replacement Fuel Float ..... P/N 05-03395 ..... ---
Weld Adapt FLANGE 10361 ..... P/N 10361 ..... ---
Gasket for 05-16700 ..... P/N 15-4 ..... ---

STEARMAN FUEL GAUGE

The Stearman High-Quality Fuel Gauge is designed so the cork is also held in place mechanically, using an Aluminum washer crimped to the indicator wire. All of the original steel parts are manufactured with stainless steel.

The Stearman High-Quality Fuel Gauge has become apparent a reliable non-leaking FAA-PMA fuel gauge that is needed for the Boeing Model 75 Stearman. ..... P/N 10-07067 ..... ---

GAS GAUGE TOOL SETS

Use the Gas Gauge Tool Set to remove or install gauges. It helps prevent damage to chrome inner & outer nuts. Available in standard (economical version) and deluxe (heavy-duty version). The tool used on the standard (outer nut) has been specifically designed to work on the original or new style nut. The tool used on the deluxe (inner nut) has a tight fitting handle, which you will need to hammer in. This offers you better leverage & sure grip. Heavy-duty version.

Deluxe ..... P/N 05-06814 ..... ---

GAS GAUGE NUT

A9330 Gas Gauge Outer Nut. Large - Chrome Plated.

P/N 05-06817 ..... ---

CESSNA S2670-1 FUEL SENDER GASKET

ITC 13-10017-507 gasket used with Rochester fuel senders 7740 series. Cessna P/N S2670-1. Part 15-716 and 0015-00716 has been replaced by S2670-1. Only for used with Rochester type fuel sender ..... P/N 11-18717 .....

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

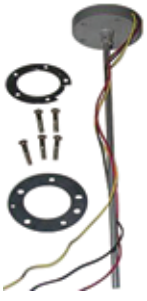
CIES SENDERS – SWIFT SENDERS

CIES MAGNETIC FUEL LEVEL SENDER KITS

A better way to measure fuel. This Magnetic Field Sensor technology is patented by CiES Inc. for fuel level senders. These sensors use the basic premise that the electrical properties of certain ferromagnetic alloys, such as permalloy, are influenced by external magnetic fields. Like a compass that always points to magnetic North, no matter how you move the fuel - these fuel level senders always point to the float sitting on the surface.

The initial STC allows the CiES to replace the existing fuel quantity senders in: • Britten Norman BN2 • Beech 33, 35, 36, 55, 58 • Cessna 170, 172, 177, 177RG, 180, 182, 185, 206, 207 • Cirrus SR20 SR22 • Fairchild 24 • Gippsland GA8 • Maule • Mooney • Piper PA 23, PA 24, PA 28, PA 30, PA 31, PA 32, PA 39, PA 44 • Vulcanair P68 • Fairchild 24 **Specifications**: • CiES CC-Series fuel senders are TSO certified to C55a and associated SAE AS405C. • They have met all the DO-160(F) and DO-254 DAL (Design Assurance Level) Level D requirements for the TSO.

Vendor Part Number	Description	Part No.	Price
CC284022-C170-105	Analog Sender Kit For Cessna C170	10-06510	---
CC284022-C210-105	Analog Sender Kit For Cessna C210	10-06514	---
CC284022-0608-101	Digital Sender Kit For Cessna C210 Strut Wing Tip	10-06532	---
CC284022-C150-101	Digital Sender Kit For Cessna C150/152	10-06533	---
CC284022-C170-101	Digital Sender Kit For Cessna C170	10-06534	---
CC284022-C177-101	Digital Sender Kit For Cessna C177	10-06535	---
CC284022-C210-101	Digital Sender Kit For Cantilener Wing C210	10-06536	---
CC284022-C172-101	Digital Sender Kit For Cessna 172/175	10-06537	---
CC284022-BTIP-101	Digital Sender Kit For Osborne Tip Tank	10-06538	---
CC284022-CESSNA-101	Digital Sender Kit For Cessna C210, 182, 185, 206 Strut Wing	10-06539	---
CC284022-B55A-101	Digital Sender Kit For Aux Tank B95	10-06540	---
CC284022-B58-101	Digital Sender Kit For B58	10-06541	---
CC284022-T34-101	Digital Sender Kit For Beechcraft 45/T-34	10-06542	---
CC284022-M20CDE-101	Digital Sender Kit For Mooney M20CDE	10-06545	---
CC284022-M20FGJK-101	Digital Sender Kit For Mooney M20FGJK	10-06546	---
CC284022-M20LMS-101	Digital Sender Kit For Mooney M20LMS	10-06547	---
CC284022-ARROW-101	Digital Sender Kit For Piper Arrow	10-06548	---
CC284022-P24-101	Digital Sender Kit For Piper PA22/24	10-06549	---
CC284022-P23-101	Digital Sender Kit For Piper PA28	10-06550	---
CC284022-CHEROKEE-101	Digital Sender Kit For Piper PA28	10-06551	---
CC284022-P30-101	Digital Sender Kit For Piper PA30/40	10-06552	---
CC284022-P31-101	Digital Sender Kit For Piper PA31	10-06553	---
CC284022-P68-101	Digital Sender Kit For Vulcanair P.68	10-06557	---
CC284022-MAULE-101	Digital Sender Kit For Maule	10-06560	---
CC284022-C195-101	Digital Sender For Cessna 190 / 195	10-06821	---
CC284022-B20-101	Digital Sender 20 Gallon Main For Beech 33 / 35 / 36	10-06823	---
CC284022-B25-101	Digital Sender 25 Gallon Main For Beech 33 / 35 / 36	10-06824	---
CC284022-B10-101	Digital Sender 10 Gallon Aux For Beech 33 / 35 / 36	10-06825	---
CC284022-B36TC-101	Digital Sender 40 Gallon Main For Beech 33 / 35 / 36	10-06827	---
CC284022-B40-101	Digital Sender 40 Gallon Main For Beech 33 / 35 / 36	10-06828	---
CC284022-NN MAIN-101	Digital Sender BN Main 101 for B-N Group	10-06829	---
CC284022-BN TIP AFT-101	Digital Sender BN TIP AFT 101 for B-N Group	10-06830	---
CC284022-BN TIP FWD-101	Digital Sender BN TIP FWD 101 for B-N Group	10-06831	---
CC284022-ACA8-101	Digital Sender For American Champion 8KCAB / 8GCBC	10-06832	---
CC284022-ACA7-101	Digital Sender For American Champion 7ECA / 7GCAA / 7KCAB	10-06834	---
CC284022-114-101	Digital Sender For Rockwell Commander 112 / 114	10-06836	---
CC284022-TB10-101	Digital Sender For Socata TB9 / 10	10-06837	---
CC284022-TB20-101	Digital Sender For Socata TB20 / 21	10-06838	---
CC284022-108-101	Digital Sender For stinson 108-1 Thru 180-5	10-06839	---
CC284022-AA5-101	Digital Sender For Grumman AA-5 / AG-5	10-06840	---



SWIFT FUEL CAPACITY SENDERS

Model Number	Size	Description	Part Number	Price
SF-F-12	12”	Bendable Alarm Sender, 5V Output	10-06660	---
SF-F-18	18”	Bendable Alarm Sender, 5V Output	10-06661	---
SF-F-24	24”	Bendable Alarm Sender, 5V Output	10-06662	---
SF-Z-12	12”	Alarm Sender, 5V Output	10-06663	---
SF-Z-24	24”	Alarm Sender, 5V Output	10-06664	---
SF-Z-48	48”	Alarm Sender, 5V Output	10-06665	---
301-KV-000	--	Sender, Connecting Cable	10-06666	---

INSTRUMENT TECH CORP FUEL SENDERS

IMAGE	OEM P/N	ITC Mfg Part Number	Eligibility Chart	Our Part Number	Price
	PS50149-2	9812-0001-101	**Drop-In Fuel Sender Replacement for the Following Models**: • PA-31/PA-31-300/-325 Navajo 31-1 through 31-861; 31-7300901 through 31-8312019 • PA-31-350 Chieftain/T-1020 31-5001 through 31-5004; 31-7305005 through 31-8553002 • PA-31P Pressurized Navajo 31P-1 through 31P-80; 31P-7300110 through 31P-7730012	10-06976	---
	PS50149-3	9812-0002-101	**Drop-In Fuel Sender Replacement for the Following Models:** • PA-31/PA-31-300/-325 Navajo 31-1 through 31-861; 31-7300901 through 31-8312019 • PA-31-350 Chieftain/T-1020 31-5001 through 31-5004; 31-7305005 through 31-8553002 • PA-31P Pressurized Navajo 31P-1 through 31P-80; 31P-7300110 through 31P-7730012	10-06977	---
	PS50149-4	9812-0003-101	**Drop-In Fuel Sender Replacement for the Following Models:** • PA-31/PA-31-300/-325 Navajo 31-1 through 31-861; 31-7300901 through 31-8312019 • PA-31-350 Chieftain/T-1020 31-5001 through 31-5004; 31-7305005 through 31-8553002 • PA-31P Pressurized Navajo 31P-1 through 31P-80; 31P-7300110 through 31P-7730012	10-06978	---
	PS50149-5	9812-0004-101	**Drop-In Fuel Sender Replacement for the Following Models:** • PA-31/PA-31-300/-325 Navajo 31-1 through 31-861; 31-7300901 through 31-8312019 • PA-31-350 Chieftain/T-1020 31-5001 through 31-5004; 31-7305005 through 31-8553002 • PA-31P Pressurized Navajo 31P-1 through 31P-80; 31P-7300110 through 31P-7730012	10-06979	---
	7740-0304	9812-0028-101	**Drop-In Fuel Sender Replacement for the Following Maule Aircraft Models:** Bee Dee M-4, M-4, M-4C, M-4S, M-4T, M-4-180C, M-4-180S, M-4-180T, M-4-210, M-4-210C, M-4-210S, M-4-210T, M-4-220, M-4-220C, M-4-220S, M-4-220T, M-5-180C, M-5-220, M-5-210C, M-5-210TC, M-5-220C, M-5-235C, M-6-180, M-6-235, M-7-235, MX-7-235, MX-7-180, MX-7-420, MXT-7-180, MT-7-235, M-8-235, MX-7-160, MXT-7-160, MX-7-180A, MXT-7-180A, MX-7-180B, M-7-235B. M-7-235A, M-7-235C, MX-7-180C, M-7-260, MT-7-260, M-7-260C, M-7-420AC, MX-7-160C, MX-7-180AC, M-7-420A, MT-7-420, M-4-180V and M-9-235. **INSTALLATION WARNING: BE SURE TO CHECK THE TYPE OF FUEL SENDER YOU HAVE. P/N 9812-0028-101 WILL NOT REPLACE THE OLD STEWART WARNER TYPE SENDERS; ONLY ROCHESTER TYPE SENDERS.**	10-06980	---
	38789-800	9812-0023-101	PA-28R, PA200T, PA28R-201, PA-28R-201T, PA28RT-201T, PA-34, PA-34-200T, PA-34-220T. **INSTALLATION WARNING: BE SURE TO CHECK THE TYPE OF FUEL SENDER YOU HAVE. P/N 9812-0023-101 WILL NOT REPLACE THE OLD STEWART WARNER OR A.C. TYPE SENDERS. IT ONLY REPLACES THE ROCHESTER TYPE SENDERS.**	10-06981	---
	38789-801	9812-0024-101	**Drop-In Fuel Sender Replacement for the following aircraft:** PA-28R, PA28R-201, PA-28RT, PA28RT-201, PA28RT-201T, PA-34, PA-34-200. **INSTALLATION WARNING: BE SURE TO CHECK THE TYPE OF FUEL SENDER YOU HAVE. P/N 9812-0024-101 WILL NOT REPLACE THE OLD STEWART WARNER OR A.C. TYPE SENDERS. IT ONLY REPLACES THE ROCHESTER TYPE SENDERS.**	10-06982	---
	42470-000	13-10017-501	This Gasket is used with the 9812-0001-101, 9812-0002-101, 9812-0003-101 & 9812-0004-101 Fuel Senders Only.	10-06983	---

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SKYSPORT PROBES

SKYSPORTS CAPACITIVE FUEL SYSTEMS

The Skysports fuel monitoring system is a capacitance system which has no float and no moving parts except the needle on the gauge. Used in hundreds of various ultralight, homebuilt, and military aircraft, these fuel systems have been very popular due to their accuracy and durability. The Skysports fuel probe electronically measures the level of fuel in the tank, and sends the signal through the wire harness to the gauge. Available for single or dual tank use and for 12 or 24 volt operation. The system includes the gauge, probe, 8 ft. wire harness, mounting hardware, & instructions.

The SkySports 240-33ohm fuel systems are no longer available. They have been replaced with a new 0-5V system. These new systems, (listed below) can be used on both 12 or 24 volt aircraft. The older 240-33ohm gauge and probes are not interchangeable with the new 0-5V gauge or probes. However the installation of the systems are the same.

Note: The Skysports 240-33ohm older style probes are only available as special order upon request. Made in USA

ROUND GAUGE SYSTEMS

Description	Part No.	Price
Fuel System 2” Round 6” Straight Probe	10-04509	---
Fuel System 2” Round 12” Straight Probe	10-04495	---
Fuel System 2” Round 24” Straight Probe	10-04496	---
Fuel System 2” Round 12” with 3” Bendable Probe	10-04497	---
Fuel System 2” Round 24” with 3” Bendable Probe	10-04498	---
Fuel System 2” Round 12” with 5” Bendable Probe	10-04499	---
Fuel System 2” Round 24” with 5” Bendable Probe	10-04501	---

SQUARE GAUGE SYSTEMS

Description	Part No.	Price
Fuel System 2-1/4” Square 6” Straight Probe	10-04511	---
Fuel System 2-1/4” Square 12” Straight Probe	10-04502	---
Fuel System 2-1/4” Square 24” Straight Probe	10-04503	---
Fuel System 2-1/4” Square 12” with 3” Bendable Probe	10-04504	---
Fuel System 2-1/4” Square 24” with 3” Bendable Probe	10-04505	---
Fuel System 2-1/4” Square 12” with 5” Bendable Probe	10-04506	---
2-1/4” Square 24” with 5” Bendable Probe	10-04507	---

INDIVIDUAL COMPONENTS

Description	Part No.	Price
2” Gauge Only	10-04119	---
2-1/4” Gauge Only	10-01246	---
12” Straight Probe	10-03758	---
6” Straight Probe	10-03753	---
24” Straight Probe	10-03773	---
12” with 3” bend probe	10-03746	---
24” with 3” bend probe	10-03774	---
12” with 5” bend probe	10-03761	---
24” with 5” bend probe	10-03776	---
Installation Kit	10-03731	---

MGL CAPACITANCE FUEL LEVEL SENDERS

MGL Avionics Capacitance Probe is available in 12” or 24” long. The senders can be bent above the black mark on the probe (first several inches only), and they can be cut to length.

12 inch Sender..... P/N 11-14306.....---
24 inch Sender..... P/N 11-14307.....---

RADIANT TECHNOLOGY GEN2 PORTABLE DIGITAL G-METER

A G-Meter is an important instrument in many aircraft, providing pilots with important information about the forces acting on their aircraft. It contributes to flight safety, training, aerobatics, and specialized aviation activities where precise measurement of G-forces is useful. RADIANT Technology introduces a new GEN2 G-Meter, which is portable and inexpensive. It shows up to +/- 8 Gs in a familiar dial format, along with digitally presented minimum, maximum, and needle trend (persistence) history. It also includes graphing functions, which displays Gs over time using a color-coded scale. This makes it easy and fun to see what the aircraft and occupants are experiencing and also helps student pilots understand acceleration during turns. One of the graph scales is set at a maximum of 6 G's, while the other goes up to 8 G's as well. The device may be attached with Velcro to the panel of any airplane **(Velcro is NOT included)**

P/N 10-07621 ..... ---

RADIANT SAFETURN PORTABLE TURN COORDINATOR

****NOT FAA APPROVED - FOR USE IN EXPERIMENTAL AIRCRAFT ONLY**** In our continued effort to offer products that enhance safety, RADIANT Technology is introducing SafeTurn, a portable Turn Coordinator that senses rolling, yawing, and turning movements and makes any pilot even better. SafeTurn utilizes a solid state gyroscope along with an embedded accelerometer to create a turn coordinator. Unlike vacuum gyros, it can't be tumbled. It can be powered or recharged from any USB port. It is affordable without compromising on function or features. With a 3-year warranty, it delivers great value.

P/N 10-07759 ..... ---

RADIANT SAFEALT PORTABLE ALTIMETER / VSI COMBO

****NOTE FAA APPROVED - FOR USE IN EXPERIMENTAL AIRCRAFT ONLY**** SafeAlt is a Portable Altimeter designed for use by pilots and passengers to increase safety of flight in three scenarios. For general aviation pilots, it provides a backup to panel-mounted altimeters and VSI gauges in an easy to use, USB rechargeable, portable device. For corporate pilots in pressurized aircraft, it provides a visual and aural alarm if altitude de-pressurization occurs. This might save lives. For passengers on commercial aircraft, it provides a visual and aural alarm if cabin altitude slowly exceeds a set value (indicating a failure of the aircraft to pressurize) or rapid decompression occurs (also indicating a pressure failure). Furthermore, it provides a reading of pressure altitude within the cabin, which is a proxy for flying comfort. The latest commercial aircraft designs have better, or lower, pressure altitude while flying.

P/N 10-07747 ..... ---

RADIANT RADIANT TURN COORDINATOR

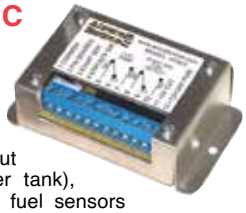
The RADIANT Turn Coordinator provides a visual indication of turn rate along with a visual indication of slip / skid, utilizing an ultra bright, daylight readable color LCD display. In comparison to all other Turn Coordinators, this unit also provides a digital indication of degrees per second in the turn. Utilizes a solid state gyro and accelerometer; it weighs less than 2 ounces, it attaches to any aircraft ship power system, and it allows for easy in flight calibration at the push of a button. The instruments utilize sunlight readable full color high contrast LCD screens which are also friendly with sunglasses.
This instrument shows inclinometer and turn rate.
All instruments are designed for a standard 2.25" cutout, and use approximately 100milliamps of power from a supply of 8 volts. All instruments are dimmable .....P/N 10-06082 ..... ---

RADIANT ALTIMETER + VSI COMBO

Introducing the RADIANT Altimeter + VSI Combo, a must-have for any aviation enthusiast or professional pilot. With a bright and clear display, the instrument is available as either 2 1/4" or 3 1/8 panel cutouts. This new Digital Altimeter has improvements in both value and price. It clearly displays altitude and vertical speed in both digital and replica analog format. The overall thickness of the unit is reduced to less than ½" (not including electrical connectors or bezel).

2-1/4" Square.....P/N 10-07652 ..... ---
3-1/8" Round.....P/N 10-07653 ..... ---

HEADER TANK AUTOMATIC FILL CONTROLLER



The HTAF2 is a "Smart" Header Tank Automatic Fill Control Relay. This device automatically keeps the aircraft header tank full without over stressing any fuel pumps. It can be operated manually (without any fuel sensors mounted in the header tank), or automatically, with one or two optical fuel sensors mounted in the side of the header tank or the your sight tube plumbing. The fuel sensor used for the HTAF2 is a very reliable optical fuel level sensor (optional) that can be easily installed in the header fuel tank. If the user is not able to install a fuel sensor in the header fuel tank, the HTAF2 can be wired to a normally open push button switch to activate the timed pumping. The unit also has a relay output that can be used for a light to indicate when the fuel in the header tank is low. The light will flash indicating when there are any system malfunctions detected. This detection of low fuel is also damped so that it does not falsely indicate low fuel in the case of sloshing fuel. The system can be powered by +12V or +24V electrical systems.

Without Sensors .....P/N 10-07107 ..... ---
1 Sensor .....P/N 10-07108 ..... ---
2 Sensors .....P/N 10-07109 ..... ---

RADIANT TECHNOLOGIES AIRLITE GPS

This GPS receiver provides lots of useful information for Adventures and Pilots. It's small enough to hold in a person's hand or become a part of a keychain (just over 2.5″ x 2″ and 1.4 oz.), and always works, even when the cell network is down (or the phone, forgotten.) AirLite GPS is designed to be a very inexpensive personal navigation tool, offering features useful for pilots, adventurers, and hikers. With its very sensitive and quick-acquiring GPS module, it can track up to 14 satellites simultaneously.
By setting a Point Of Interest (waypoint) at the start of a hike or flight, you can always return back, or you can plot a course to your next destination. Alternatively, setting a waypoint at the North Pole is a wonderful compass hack, providing accurate directional tracking with no compass deviation. The included timer and distance tracker is also very useful. All in all, AirLite GPS is useful, inexpensive, and fun to use.
Features: • Geographic coordinates as determined by GPS • Directions to user set Points of Interest • Absolutely accurate Time from GPS • Distance • Mileage • Speed Altitude • Compass • Crystal clear LCD screen • GPS lock time as little as 2 seconds! (Hot Start Mode) • Backlight • Keychain attachment • Rechargeable USB battery • ~10 hours operation time on a single change • Included charging cable .....P/N 11-19695 ..... ---

RADIANT RADIANT TACHOMETER

The Digital Tachometer / Hour Meter is a general purpose, ignition spark lead based instrument. Mount it anywhere using the included Velcro patch. Works with two or four stroke engines; also includes a job (oil change) interval countdown timer.
Specifications: • Dimensions: 3"(W) x 1 5/8" (T) x 1" (Deep) • Small size, 2-5/8" x 1 3/8" - (67mm x 35mm) • Standard coin battery power is included (CR2032) • Basic Interface board available separately, allows +8 to +32v power supply and LED capable signal output. • 60" cable harness – standard (1.5 meter).....P/N 10-06872 ..... ---

RADIANT - ANGLE OF ATTACK SENSOR

The Radiant Angle of Attack Sensor & Display System includes vane, sensor, LCD RADIANT color Display, and aural alert output, which sounds when angle is in the red.
The vane is mounted on the leading edge of your wing (for tractor airplanes) or on the forward side of your fuselage (for pusher airplanes). The Radiant AOA comes complete with fittings for either mount. The actual angle of attack is shown in continuous digital format as well. All instruments are designed for a standard 2.25" cutout, and use approximately 100 milliamps of power from a supply of 11 to 14 volts. All instruments are dimmable. FOR USE IN AIRCRAFT AND VEHICLES ONLY. Non-TSO/PMA Experimental status and use only.....P/N 10-07283 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RADIANT TECHNOLOGY INSTRUMENTS

RADIANT MULTI FUNCTION INSTRUMENT GEN-2

The GEN-2 Universal Multi-Function Instrument features Airspeed, adjustable Altimeter, True Airspeed. The instrument also provides readings for Outside Air Temperature (OAT) and Density Altitude with a brilliant and clear, deep black, high-contrast display.
The GEN-2 line of Radiant Technology instruments stepped up RADIANT Technology's offering to the light aircraft instrumentation. GEN-2 brings pilots familiar representations of common flight instruments and significant digital enhancements, including True Airspeed, Density Altitude, VSI, temperature, and more. The GEN-2 Multi-Function Instrument benefits from these advancements and offers an exciting upgrade for previous customers and an excellent addition for new customers. Excellent as a primary instrument or as a backup.

UMFI 2-1/4" .....P/N 10-07488 ..... ---
UMFI 3-1/8" .....P/N 10-07686 ..... ---

RADIANT VISUAL ANGLE OF ATTACK

Our new Visual AOA provides direct visual feedback of the aircraft's Angle Of Attack. Any pitch change or power change is immediately reflected in the indication.
It is designed to mount on the leading edge of an experimental aircraft. It is available with a generic mount for the leading edge of aircraft. A top side mount for Sonex (low wing) aircraft is also available.

AOA 50 cm Shaft (mount **not** incl.) .....P/N 10-07714 ..... ---
AOA Sonex Top Mount (Mount **Only**) .....P/N 10-07717 ..... ---
AOA Experimental Leading Edge Mount (Mount **Only**)
P/N 10-07716 ..... ---

RADIANT ANNUNCIATOR ALARM 100DB

****NOT FAA APPROVED - FOR USE IN EXPERIMENTAL AIRCRAFT ONLY**** This generation of our popular BINGO series to detect low or full fuel is the simplest yet. BINGO 6 is an easy-to-install Horizontal Fuel Float. It can be used at any point in a fuel tank to detect presence or absence of fuel. It can be paired with any alarm light or indicator, such as Radiant's 100DB Annunciator Aural Alarm. It is rated to switch loads up to 32 volts and up to 100 millamperes. Specifications • Usable for either up or down orientation as depicted • Normally Open switch • 32 volts maximum • 100 milliamperes maximum • Includes black wires with 15" length • Polypropylene material for compatibility with gasoline and water (alcohol: prohibited) • ½" NPT for easy installation in any tank • Overall length of 3.2" (82mm) • 15" black wires • Use with any light and/or our 100db aural annunciator. .....P/N 10-07758 ..... ---

RADIANT BINGO 6 HORIZONTAL FUEL FLOAT

Radiant's new Annunciator is designed for general purpose use anywhere a loud aural alarm is needed. It produces a sound pressure level of 100+ dB at an effective 2.9 khz tone on 8 milliamps of current using any 12 volt supply. This annunciator is useful for low fuel warnings and for many general purpose aircraft alarm applications, for instance, a gear warning. Affordable and easy to use. Connect through any momentary limit switch or alarm, and it lets you know something's happening. N**ote: This product can be paired wit the BINGO5**
P/N 10-07740 ..... ---

RADIANT BINGO 5 FUEL DETECTION SENSOR FOR EXPERIMENTAL AIRCRAFT

BINGO 5 is a fuel detection sensor that is very useful to indicate low fuel or full fuel. It can be paired with an optional very loud Annunciator Aural Alarm.
Features: • It utilizes an easy-to-install, single-point fuel detector combined with an LED red/green indication, harness, and optional very loud annunciator aural alarm. • This new sensor may also be used to sense fuel levels at as many points in the tank as the user desires. • Each BINGO 5 also includes a brilliant Red / Green LED and harness. The thread size of Bingo 5 is 12mm; no internal access to the tank is required. P/N 10-07735 ..... ---

RADIANT FUEL GAUGE GEN-2

The GEN-2 Fuel Gauge is designed to work with either one or two industry-standard 0 – 5 volt probes, as is common with capacitive probes, or with either one or two industry-standard resistive probes, which are often referred to as float-style probes. Instruments are offered for both 2 1/4" and 3 1/8" panel cutouts. The current fuel level is shown as a standard dial for one or two tanks, along with a digital representation for each tank.
The RADIANT GEN-2 Single or Dual Tank Fuel Gauge shows current contents of one or two tanks and the system voltage. Time to Empty is automatically calibrated. Works with float probes or capacitance probes. Shows fuel consumption trend from two tanks over the last 15 minutes.

For Capacitive Fuel Senders 0-5 Volt.....P/N 10-07486 ..... ---
Capacitive 3-1/8" .....P/N 10-07721 ..... ---
For Resistive Or Float Based Fuel .....P/N 10-07487 ..... ---
Resistive 3-1/8".....P/N 10-07722 ..... ---

RADIANT FUEL LEVEL COMPUTER

This innovative little box helps aircraft owners calibrate irregular or circular fuel tanks, providing a linear fuel level from a fuel tank that is in no way linear. It acts as an 'interposer' between the tank, fuel probe, and instrument display.
It provides the same benefit of fuel tank calibration found in EFIS systems.
Although not designed for panel mounting, it does include a five-point LED fuel gauge.
The output of the FLC may be attached to any standard fuel gauge. A fuel pressure sensor is available separately
.
P/N 10-07687 ..... ---

RADIANT FUEL PRESSURE SENSOR

The Fuel Pressure Sensor inserts into any 1/8 or ¼ NPT fitting in a fuel tank. It detects differential pressure between 0 and 1.5 bars of pressure and provides an output ranging from 0.5 to 4.5 volts. It is powered by five volts. This Fuel Pressure Sensor is ideal for users who wish to connect a pressure sensing fuel probe directly to an EFIS. The EFIS then calibrates the probe. (Radiant does not manufacture EFIS devices.) **Pairs with the FUEL LEVEL COMPUTER to provide calibration and display.**
P/N 10-07688 ..... ---

RADIANT BINGO 4 LIQUID DETECTOR

With fuel management issues continuing to plague pilot decision making, Radiant Technology introduces Bingo4, a small sender device that fits on the outside of the tank and easily shows the presence of absence of liquid in a tank.
Bingo4 mounts on the outside of many different kinds of tanks. It uses ultrasonic technology to indicate the presence of liquid at the point of attachment. It's the perfect instrument to indicate critical level information of the fluid inside a tank. The sender includes a flashing status LED, best for pilots who can see the tank and sender installation.
With USB Port + Panel Display .....P/N 10-07155 ..... ---

RADIANT CARBON MONOXIDE USB ALARM

In our effort to enhance safety in aviation, we're introducing the CO-USB Carbon Monoxide Alarm, a simple device that provides a brilliant and reliable indication of CO poisoning. Per FAA guidelines, it flashes bright RED at 41 PPM. Power it up from any USB port, even your Android or late-model iPhone (15 or later). With a 5-year warranty and low power consumption, you can depend on its reliability.
Features: • Plugs into any USB port for power • Low power consumption (30 milliamperes) • 5 year warranty • Excellent anti-interference from other gases • Temperature compensation; works across -10 to 40C • Digital output via serial data (0 to 1000ppm results @ 9600 baud) (via 5 pin port) • 3 minute warmup to first accurate result • 30 second response to first indication • 30 second recovery after removal of CO gas • Red LED illuminates at 41PPM (any level may be set for OEM integration via 5 pin port) • Digital Alarm signal output; provides a logic "1" (5 volts) whenever the red LED is blinking. (via 5 pin port) • May be powered from any +5 volt supply through the 5 pin port. P/N 10-07755 ..... ---

IN

MICROFLIGHT GAUGES

MICRO-1000 ENGINE GAUGES

Senders and probes are not included umless specifically noted. See lower half of the page for senders, probes, and other accessories. 2" gauges are round. 2 1/4" gauges are square.

OIL PRESSURE ELECTRIC

MICRO-1000 oil pressure electric includes 1/8 NPT SDR.
2 1/4" OP031.....P/N 10-01574 ..... ---
2" OP030.....P/N 10-01572 ..... ---

DC VOLTMETER

2 1/4" VM031 .....P/N 10-01641 ..... ---
2" VM030.....P/N 10-01639 ..... ---

2 IN VOLT METER

2 Inch Volt Meter - Round Only.
P/N 10-01640 ..... ---

AMMETER ±30 AMPS

2 1/4" AG031.....P/N 10-01319 ..... ---
2" AG030.....P/N 10-01317 ..... ---

MICROFLIGHT DUAL TACH/EGT

2" Round Gauge Tachometer - Universal for single or dual ignition. EGT range: 700-1700°F EGT probe (clamp type) Sender not included
P/N 10-01628 ..... ---

MICROFLIGHT DUAL TACH/EGT

Dual: CHT/Tachometer. Size: 2" inch round. Range: 700-1700°F/0-8000rpm for single and dual ignition Similar to Falcon Gauge. Made in China
P/N 10-01626 ..... ---

MICROFLIGHT SENDERS & ACCESSORIES

100# PRESSURE SENDER

HAS A 1/8" NPTF fitting.
OP030.2 .....P/N 10-01573 ..... ---

TEMPERATURE SENDERS

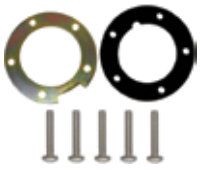
Single-station senders for water and oil temperature gauges.
OT030.2.....P/N 10-01587 ..... ---

TUBING KIT FOR OIL PRESSURE

Tubing Kit for Oil Pressure Includes 16' tubing and assorted adapters to fit most any application. Includes 1/8-27 NPT and 1/4-18 NPT adapters.
P/N 15-04762 ..... ---

FLOAT-TYPE FUEL PROBES

6-23" Probe. Adjustable, 6-23"; 240-33 ohms standard: 5-hole ASME pattern.
Requires mounting kit.
FGP031 .....P/N 10-01489 ..... ---



UNIVERSAL PROBE MOUNT

Works well with plastic and other tank. Includes threaded attachment ring, gasket, and hardware. Standard 5-hole SAE pattern.
FMK01 .....P/N 10-01501 ..... ---

COLOR TINT LAMPS

Color tint lamp boots. Set of Boots. Changes your instrument backlighting to red for night flying.
LB001 .....P/N 10-01556 ..... ---

APPLICATION NOTE: MOST CURRENT PRODUCTION ROTAX® ENGINES REQUIRE 1/8NPT TEMPERATURE AND PRESSURE SENDERS.

THERMOCOUPLES

BAYONET TYPE

Threaded Fitting with 1/8"
P/N AN4076 ..... ---
Pipe thread to mate with bayonet type thermocouple.

UNIVERSAL REPLACEMENT PROBES

CHT Probe, Type J, Style AN 5541-1
P/N AN5541-1 ..... ---
EGT Probe, Type K MM-111
P/N 11-01022 ..... ---
CHT Probe, Type K (Hose clamps not required)
P/N 11-01023 ..... ---
Cessna CHT Probe S2334-3 - Must be used with the new Rochester Gauges. Cannot be used with the old Stewart Warner Gauges
P/N 06-00703 ..... ---
Note: These probes will only work with a grounded system.

ROCHESTER 3080-38 TEMPERATURE PROBE

3/8-24 NF3. 250°-550° Aircraft Temperature Probe .....P/N 3080-38 ..... ---

ROCHESTER 3080-37 OIL TEMPERATURE PROBE

3080-37 for cluster-type instrument. 5/8"-18, 10/32 Thread.....P/N 3080-37 ..... ---

THERMOCOUPLE LEADS

HEAVY-WEIGHT AN SPEC. WIRE LEADS

8 Ohm Resistance, Iron-Constantan, 90"
P/N 42535 ..... ---
8 Ohm Resistance, Iron-Constantan, 144"
P/N 42536 ..... ---
8 Ohm Resistance, Iron-Constantan, 216"
P/N 42537 ..... ---
EGT E.W. Rings.....P/N 11-05672 ..... ---

IN

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MICROFLIGHT GAUGES / VDO GAUGES

MICRO-1000 PYROMETERS

Superior to any other type of pyrometer, MICRO-1000 pyrometers still read the same. And we guarantee that, when properly installed, these pyrometers will be accurate within 2%. Like other MICRO-1000 gauges, these units come with our standard 2-year warranty. Order gauges, probes, and extension leads separately.
Note: MICRO-1000 pyrometers are not compatible with other thermocouple probes. Order Micro-1000 Probes • 2% Accuracy • Easy-to-Read Dial • Backlighting • Standard • Temperature Compensated • Shock & Vibration Resistant • Designed & Built for Aircraft

Range	Description	Part No.	Price
0-600F/ 0-300C	CH131 2-1/4" Square CHT	10-01426	---
0-600F/ 32-315C	CH130 2" Round CHT	10-01425	---
0-600F/ 0-1600F	CH141 2-1/4" Square CHT EGT Combo	10-01409	---
0-600F/ 600-1600F	CH140 2" Round CHT EGT Combo	10-01408	---
800-1800F/ 450-950C	CH131 2-1/4" Square EGT	10-01464	---
800-1800F/ 430-980C	CH130 2" Round EGT	10-01463	---
800-1800F	CH141 2-1/4" Square Dual EGT	10-01467	---
800-1800F	CH140 2" Round Dual EGT	10-02093	---

MICROFLIGHT PROBES

A more expensive material than that of the more commonly found "J" type, the "E" type probe produces much greater accuracy at lower temperatures (less than 600°F). Extension wire is of the same material as the thermocouple to preserve the accuracy and temperature compensation qualities. **Note**: The 15' extension leads may be shortened up to seven feet. The EGT probes are high-quality Chrome/Alumel "K" types. Choose the weld-on boss type (below) for new engine installations. Choose the clamp-on type (below) to replace the existing probe. Order gauges, Micro-1000 probes and extensions separately.
Note: These are "K" type grounded probes, not for use on digital gauges. For use with Micro-1000 gauges.

Type	Part No.	Description	Price
EGT	10-01471	EP130 Type K Clamp Type Probe	---
EGT	10-01475	EP130R Adjustable Rotax M8-1 Probe	---
EGT	10-01477	EP131 Type K Weld on Boss Probe	---
EGT	10-01478	EP132 Type K 1/8" NPT Adjustable Adapter Probe	---
EGT	10-01479	EP133 Type K 1/4" NPT Adjustable Adapter Probe	---
CHT	10-01441	CP132 Type K 10mm Probe	---
CHT	10-05122	CP129 Type K 12mm Probe	---
CHT	10-00823	CP130 Type K 14mm Probe	---
CHT	10-01440	CP131 Type K 18mm Probe	---

MICROFLIGHT LEADS

Part No.	Description	Price
10-01442	CHT 18G Thermocouple Lead 7 Ft	---
10-01443	CHT 18G Thermocouple Lead 15 Ft	---
10-01480	EGT 18G Thermocouple Lead 7 Ft	---
10-01481	EGT 18G Thermocouple Lead 15 Ft	---

Note: For a complete CHT ot EGT set, order gauge, probe, and lead.

VDO GAUGES & PROBES

EXHAUST GAS TEMP.
2-1/4" .... P/N 10-01462 ..... ---
2" ..... P/N 10-01461 ..... ---
250 -1650°F
With weld-on Boss type probe

OIL PRESSURE
2-1/4" ... P/N 10-01570 ..... ---
2 ..... P/N 10-01567 ..... ---
Includes 1/8NPT sender
2" round(Gauge Only)
P/N 10-01569 ..... ---

OIL TEMPERATURE
2-1/4" .... P/N 10-01583 ..... ---
2" ..... P/N 10-01579 ..... ---
Includes 1/8NPT probe
2" round(Gauge Only)
..... P/N 10-01581 ..... ---

AMMETER - 12 VDC
2-1/4" .... P/N 10-02335 ..... ---
2" ..... P/N 10-02334 ..... ---
No shunt required

VOLTMETER-12 VDC
2-1/4" .... P/N 10-01638 ..... ---
2" ..... P/N 10-01637 ..... ---
With color arc

FUEL LEVEL-10-180 OHM
2-1/4" .... P/N 10-01485 ..... ---
2" ..... P/N 10-00825 ..... ---
Order only P/N 10-04788 probes for this instrument.

WATER TEMP.
2-1/4" .... P/N 10-01649 ..... ---
2" ..... P/N 10-01646 ..... ---
Includes 1/8NPT probe

HOUR METER-12VDC
2-1/4" ... P/N 10-01505 ..... ---
2" ..... P/N 10-01504 ..... ---
With minute hand

FLUID TEMPERATURE GAUGE
2" ..... P/N VDO180902D ..... ---
Includes 96" capillary tubing and adapter kit.

VDO PROBES

VDO Float Probe 10-180ohms..... P/N 10-04788 ..... ---
Fuel Probe Mounting Ring ..... P/N 10-01502 ..... ---
VDO Temperature Probes - 1/8NPT Water Probe 1/8" NPT
P/N 10-01648 ..... ---
Oil Probe 1/8" NPT..... P/N 10-01580 ..... ---
VDO CHT Probe - Type "J"
14mm ring type ..... P/N 10-01439 ..... ---
VDO EGT Probe - Type "K" Weld-on Boss.
P/N 10-01461 ..... ---
Oil Pressure Sender 1/8"-27 NPT (30PSI)..... P/N 10-05471 ..... ---
Oil Pressure Sender 1/8" NPT (80 PSI)..... P/N 10-01568 ..... ---
Oil Pressure Sender 1/8-27 NPT (150 PSI).... P/N 10-04967 ..... ---
VDO Pressure Sender 1/8"-27 NPTF 80 PSI.. P/N 10-06581 ..... ---
VDO Oil Temp Sender 10MM ..... P/N 15-06252 ..... ---

WARNING NOTICE:
***VDO pressure senders are not to be used with any type of fuel application.**
***VDO pressure senders may not be used in automotive braking systems.**
***VDO pressure senders are not suitable for use in aircraft.**

IN

AVIASPORT ROTAX INSTRUMENTS

ROTAX 912 2-1/4" CHT GAUGE FARENHEIT

Rotax 912 CHT Temp – F. For use with VDO sensor only. Red: 270-300. Yellow: 100-150, 220-270. Green: 130-220 Diameter: 57mm (2.25 in.). Motor: 912S.....P/N 15-06646 ..... ---

ROTAX 912UL 2-1/4" CHT GAUGE

IM-549 - Water Temperature Indicator (CHT) Rotax 912 engine (80HP) and 914.57 mm - Scale in °F. Designed specifically for Rotax 912 (80HP) and 914 with silkscreen red areas green and yellow. Diameter 57mm, 100-300° F range, distance between 2° F indications in central area. Supply voltage 8-35V DC. It works with sensors that come from the factory with Rotax engines.....P/N 15-08392 ..... ---

ROTAX 912 2-1/4" EGT GAUGE FAHRENHEIT

A540 Rotax 912 EGT Temp – F. For use with Aviasport Sender only. Red: 1500-2000. Yellow: 600-1100. Green: 1100-1450. Diameter: 57mm(2.25 in)
P/N 15-05922 ..... ---

OTHER ROTAX EGT GAUGES

IM-774 2" EGT 300-1000 C Rotax 914..... P/N 15-08550 ..... ---
IM-775 2-1/4 EGT 300-1000 C Rotax 914..... P/N 15-08551 ..... ---
IM-776 2 Dual EGT 300-1000 C Rotax 912 .... P/N 15-08552 ..... ---
IM-777 2-1/4 Dual EGT 300-1000 C Rotax 912 . P/N 15-08553 ..... ---
IM-778 2 Dual EGT 300-1000 C Rotax 914 .... P/N 15-08554 ..... ---
IM-779 2-1/4 Dual EGT 300-1000 C Rotax 914 . P/N 15-08555 ..... ---
IM-780 2 EGT 600-1800 F Rotax 912 ..... P/N 15-08556 ..... ---
IM-781 2-1/4 EGT 600-1800 F Rotax 912..... P/N 15-08557 ..... ---
IM-782 2 1/4 Dual EGT 500-1300 F Rotax 503 .. P/N 15-08558 ..... ---
IM-783 2.25 Dual EGT 500-1300 F Rotax 582 . P/N 15-08559 ..... ---

ROTAX 912 2-1/4" OIL PRESSURE GAUGE PSI

A572 Rotax 912 Oil Pressure – PSI. For VDO Sender only. Red: 0-12, 90-150 psi. Yellow: 75-90 psi. Green: 30-75 psi. Diameter: 57mm(2.25 in)
P/N 15-05924 ..... ---

ROTAX 912/914 OIL PRESSURE GAUGE

• 2 Oil Pressure • Ideal for use on Rotax 912/914 • Ranges from O-8Opsi • Includes 1/8 male NPT sender • Fits 2 1/16 cutout • Completely electrical • Requires 12 volts D/C..P/N 15-06319 ..... ---

ROTAX 912 2-1/4" OIL TEMPERATURE GAUGE FARENHEIT

A558 Rotax 912 Oil Temp. For use with VDO Sender only. Red: 90-120, 280-320. Yellow: 120-190, 230-270. Green: 190-230. Note: Not for 912iS and 914 engines. See "Alternate Items" part number 15-08399. Diameter: 57mm (2.25 in.) Motor: 912S/914.
P/N 15-05926 .....

ROTAX 912 2-1/4" TACHOMETER

A105 Rotax 912 Tachometer. 0-7000 rpm. Electronic Connection only. Red: 0-1200, 5800-7000. Yellow: 1200-1800, 5500-5800. Green: 1800-5500.
P/N 15-05932 ..... ---

ROTAX 912 3-1/8" TACHOMETER

A149 Rotax 912 Tachometer - 3-1/8". 0-7000 range. Electronic connection only. Red: 0-1200, 5800-7000. Yellow: 1200-1800, 5500-5800. Green: 1800-5500.....P/N 15-05930 ..... ---

ROTAX 912 2-1/4" VOLTMETER

A562 Rotax 912 Voltmeter. Red: 8-10, 14-16 volts. Yellow: 10-11, 13-14 volts. Green: 11-13 volts.
P/N 15-06650 ..... ---

ROTAX 912 2-1/4" FUEL PRESSURE GAUGE BAR

A564 ROTAX 912 Fuel Pressure Bar. Requires Sender below. Red: 0-1.5 , 4-6 bar. Green: 1.5 – 4.0 bar. Diameter: 57mm (2.25 in.). Sensor: 7 PSI.
P/N 15-06647 ..... ---

FUEL PRESSURE SENDER - 1/8 NPT

A603 Aviasport Fuel Pressure Sender. 1/8" NPT threads.....P/N 15-06648 ..... ---

ROTAX 912 EGT 4 READING KIT

The IM-553 instruments have been designed especially to measure the EGT in Rotax® engines 912. Includes the IM-580 EGT Connection Box. 300-1000°C.....P/N 15-08617 ..... ---

ROTAX 912UL 912 ULS 2-1/4" EGT KIT

The IM-540 instruments have been designed especially to measure the EGT in Rotax® engines 912. Includes the IM-580 EGT Connection Box. 800-1800°F .....P/N 15-08620 ..... ---

ROTAX 912 2" INCH FUEL PRESSURE KIT

The IM-584 have been designed especially to measure the FUEL Pressure in Rotax® engines 912 (Series). Includes the IM-604 Sensor. The display areas are divided into red, green and yellow zones in line with Rotax limits. 0-6 Bar.
P/N 15-08624 ..... ---

ROTAX 912 2-1/4" INCH FUEL PRESSURE KIT

Unlike mechanical instruments fuel pressure, electronic instruments use a high precision sensor to be installed close to the engine, avoiding cabin carry fuel lines. Includes the IM-604 Sensor. 0-8 PSI.
P/N 15-08629 ..... ---

ROTAX 914 3 EGT 4 READING KIT

The IM-576 instruments have been designed especially to measure the EGT in Rotax® engines 914. Includes the IM-580 EGT Connection Box. The instruments use a pointer thats turns 240°, witch gives them great resolution. Their display areas are divided into red, green and yellow zones in line with the ROTAX limits. 600-1800 °F.
P/N 15-08623 ..... ---

AVIASPORT ROTAX EGT TYPE K SENSORS

Probe for the measurement of the temperature of exhaust (EGT) for all ROTAX engines. It has a thread metric 8 and it can be installed directly on the M8 nuts that come from manufactures some 912 and 914 engines. On the outlets that do not have these nuts, it is necessary to weld a nut M8. Stainless steel jacket.
6 ft.....P/N 15-09438 ..... ---
9 ft.....P/N 15-09439 ..... ---

AVIASPORT ROTAX EGT TYPE K SENSOR WITH CLAMP

Probe type clamp "K". Designed for engines ROTAX 447/503/582, you don't need welding. Simply drill the holes and tighten the clamp. Protected with stainless steel mesh. 2 meters cable length.
P/N 15-09440 ..... ---

IN

VISIT WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE LIST OF INSTRUMENTS AND SENDERS.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AE FUEL GUARDIAN

AE FUEL GUARDIAN LOW FUEL ANNUNCIATION SYSTEM

This system gets your attention before you have to switch tanks. When the annunciator light flashes, you will know your precise fuel quantity and also the time to engine shut-down for that tank. HOW DOES IT WORK? - The optical fuel sensor is a non-contact sensor mounted in a single hole in the fuel tank. It operates by bouncing a beam of light into the sensors lens. If it is reflected back into the sensor, there is no liquid present. If it is not reflected back, it is dissipated into the liquid media. The sensor output is pulled down, or activated.The electronics constantly monitors the sensor outputs of both tanks. When a low fuel level is detected, the appropriate light starts to blink, getting the pilot's attention immediately. After the pilot sees the alarm, he can press the acknowledge button. This action turns the light on solid (continuous) denoting a low fuel quantity. This function of the annunciator eliminates the distracting flashing action of the lights for the pilot, yet he can still see that he has a low fuel indication. The AE Fuel Guardian also has an audio output that can be wired into the aircraft intercom or audio system if desired. The audio beep is only present when the annunciator lights are flashing. The AE Fuel Guardian annunciator lights can also be wired into the aircraft dimmer bus if desired for night flight. This system is 100% solid state and is compatible with 12VDC or 24VDC electrical systems. The installer sets the sensors to provide low fuel warning at whatever level is desired. System includes (2) annunciator panel lights, (2) optical sensors, (1) push button, Sensor drive and annunciator electronics enclosure, wiring, and lettering decals. For Experimental aircraft only.

Kit With One Sensor.....P/N 10-01811 ..... ---
Kit With Two Sensor.....P/N 10-00399 ..... ---

AE RELAY BOARDS

AE Relay Boards - Better than the Competition. These relay contacts are protected against inductive sparking generated from relays switching inductive loads such as motors and solenoids. The relay coils are also protected. This prohibits the relays from early failure. This also protects the switch contacts that drive the relay coils from failure.

10A/20A Relays - (available in 12V to 14V or 24V to 28V operation) and available in in 1 Axis, 2 Axis or 3 Axis control.

Stack up to 3 relay boards to save panel space. Terminals are easily accessible. Each board contains two, SPDT relays (Form C). Each relay has one normally closed contact and one normally open contact). Each relay board is 3" wide by 1-3/8" deep by 3/4" high. The fastening standoffs measure 3/8" high. This makes the single board overall height 1-1/8".

The relay coils are actuated by pulling them down to common or ground. If you desire to operate them pulled up to + bus voltage, special order requests can be accommodated at no additional charge.

10 AMP

Number of Axis	Voltage	Part Number	Price
1 Axis Relay	12V/14V	10-01814	---
2 Axis Relay	12V/14V	10-01815	---
3 Axis Relay	12V/14V	10-01816	---
1 Axis Relay	24V/28V	10-07090	---
2 Axis Relay	24V/28V	10-07091	---
3 Axis Relay	24V/28V	10-07092	---

20 AMP

Number of Axis	Voltage	Part Number	Price
1 Axis Relay	12V/14V	10-07093	---
2 Axis Relay	12V/14V	10-07094	---
3 Axis Relay	12V/14V	10-07095	---
1 Axis Relay	24V/28V	10-07096	---
2 Axis Relay	24V/28V	10-07097	---
3 Axis Relay	24V/28V	10-07098	---

AE AG6 ANNUNCIATOR GAUGE METER

A full Aircraft Annunciator, Fuel Gauge, Oil Level Gauge, Volt & Amp Meter

Model AG6 will monitor up to 6 inputs. Weighs only 2.0 oz. (55 grams)

One Button, Multi-function,Aircraft Annunciator - Fuel Gauge, Several styles available (with low fuel warning and caution zones) Volt Meter & Current Meter (with low & high warnings and caution zones) A full service Aircraft Annunciator, Fuel Gauge, Oil Level Gauge, Volt Meter & Current Meter. Will display many different aircraft warnings. All devices feature user programmable alarms. Utilizes a push-button LCD display that is backlight with a 3 color LED. All functions are fully programmable by the user. The push-button/display can be used for programming, acknowledging the alarms, and paging thru up to 16 different screens or "annunciator points". Can automatically scan thru each screen or it can be done manually using the push-button. The pilot has the ability to mask or unmask annoyance alarms.

12VP/N 10-04180..... ---
24VP/N 10-07415..... ---

AUXILIARY FUEL PUMP RELAY

The AFPR is a "Smart" Auxiliary Fuel Pump Relay. This device allows the pilot to flip oneswitch and quickly drain the contents of the auxiliary fuel tank without over stressing the auxiliary fuel pump. The AFPR will pump down the auxiliary fuel tank, and then automatically shut the fuel pump off when no fuel is detected. The AFPR includes a very reliable optical fuel sensor that can be easily installed in the auxiliary fuel tank or in the fuel line. The AFPR can be operated in and one of four modes of operation. The AFPR also has an output that can be used for a light to indicate when the fuel pump-down has been completed. Input Power: 12Vdc or 24Vdc, 0.1A max. Enclosure: 3.5" x 2.25 x 1.25" (89mm x 57 x 32mm) Fuel Sensor Mounting Hole: 0.475" (12mm)

With Sensor.....P/N 10-04343 ..... ---
Without Sensor.....P/N 10-07416 ..... ---

OIL QUANTITY SENSOR WITH OIL TEMPERATURE SENSING

This oil quantity sensor with its (required) electronics package (OSE-1) will give the pilot a real time oil quantity while in flight or on the ground. This system is not meant to replace any other traditional methods of checking oil quantity. It is a new device that the pilot of a small aircraft can use in flight that he or she never had before. It will also measure oil temperature. The electronics enclosure features two analog outputs, one for oil quantity and the other for oil temperature. It also features a four digital output alarms (open collector type) for sensor malfunction, oil level warning, oil level caution, and over oil temperature. You may program the alarm trigger values for those outputs and choose a scaling for both analog outputs. The electronics package is required as all sensors are passive devices.

Description	Part No.	Price
AE - Oil Sensor Electronics - Ose-1 - 15 Pin DSUB Connector Supplied	10-07674	---
AE - DSUB Connector - 15 Pin (Wired) with 12 Inch Wires	10-07675	---
AE - Oil Sensor Sxx.x-5/8-18-48.0 Continental Sensor with 48 Inch Cables	10-07676	---
AE - Oil Sensor Sxx.x-1/2NPT-48.0 Lycoming Sensor with 48 Inch Cables	10-07677	---
AE - Oil Sensor Extension Cable Cabsma15.0 - 15 Inch with SMA (Male / Female) Connectors	10-07678	---
AE - Oil Sensor Extension Cable Cabsma30.0 - 30 Inch with SMA (Male / Female) Connectors	10-07679	---

IN

AEROSPACE LOGIC FOUR CYLINDER EGT/CHT

The ECT204 is a full color EGT and CHT combination instrument that provides simultaneous, real-time display of all four cylinders. This kit includes four Type-K ungrounded, EGT thermocouple probes of your choice, four Type-J ungrounded, CHT thermocouple probes of your choice, and all connectors and installation hardware. Both Cylinder head and Exhaust gas temperature functionality is TSO'd and meets the temperature accuracy requirements of SAE AS8005 for a Class IIa (+/- 1%) instrument. Functional displays include: Real-time four cylinder temperature display: Menu select option for fast selection of display type, Automated rich-of-peak (ROP) leaning function for EGT, Automated lean-of-peak (LOP) leaning function for EGT, Automated shock cooling monitoring for CHT, ...P/N 10-05171 ..... ---

AEROSPACE LOGIC FUEL FLOW SINGLE ENGINE

This kit includes both instrument and fuel flow transducer. Fuel flow functionality is TSO'd and meets the repeatable accuracy requirements of SAE AS407B, +/- 0.1US Gallon per hour. Functional displays include: Graphical indication of fuel flow, Digital display of instantaneous fuel flow, Digital display of fuel used since flight commencement, and Fully programmable color indication to meet all aircraft marking requirements. The FF200K30 instrument kit is TSO'd and STC'd as a primary replacement instrument under all flight conditions (day/night VFR and IFR). The FF200K instrument kit includes the full installation wiring harness, fuel flow transducer for a maximum fuel flow of 30gph and all necessary install hardware for the instrument. Installer supplied couplings are needed to be supplied by the installer to mate to the fuel flow transducer, as required. .....P/N 10-05172 ..... ---

AEROSPACE LOGIC FUEL FLOW TWIN ENGINE

This kit includes both instrument and two fuel flow transducers Fuel flow functionality is TSO'd and meets the repeatable accuracy requirements of SAE AS407B, +/- 0.1US Gallon per hour. Functional displays include: Graphical indication of fuel flow, Digital display of instantaneous fuel flow, Digital display of fuel used since flight commencement, and Fully programmable color indication to meet all aircraft marking requirements. The FF202K30 instrument kit is TSO'd and STC'd as a primary replacement instrument under all flight conditions (day/night VFR and IFR). Includes the full installation wiring harness, fuel flow transducers for a maximum fuel flow of 30gph and all necessary install hardware for the instrument. ..... P/N 10-05173 ..... ---

AEROSPACE LOGIC SINGLE TANK FUEL LEVEL

The FL201 instrument is an advanced, next generation airborne fuel level reporting instrument that supports two fuel tanks. Fuel level functionality is TSO'd and meets the repeatable accuracy requirements of SAE AS405C, +/- 1US Gallon. Functional displays include: Graphical indication of fuel level in the tank, Digital fuel quantity for the tank, Fully programmable color indication to meet all aircraft marking requirements, and Graphical fuel level indication, starting at power on. The FL201 instrument is TSO'd and STC'd as a primary replacement instrument under all flight conditions (day/night VFR and IFR). It is a requirement of the STC that this be the only fuel level indicator, when installed. The FL201 instrument utilizes the existing fuel senders.

P/N 10-05174 ..... ---

AEROSPACE LOGIC 2-1/4 ELECTRONIC ALTIMETER 35K

The ALT200 is the most accurate altimeter available for your aircraft. It exceeds all the requirements of TSO C10b, AS392C and AS8009B while providing the following functionality: • -1,000' to 35,000' • Digital altitude display • Graphical altitude trend display • User selectable for inHg and mb pressure settings • One press toggle between selected altitude and Standard Pressure Altitude.

P/N 10-06270 ..... ---

AEROSPACE LOGIC 2-1/4 ELECTRONIC VERTICAL SPEED INDICATOR 0-6000 FPM

The VSI200 is the most accurate Vertical Speed Indicator available for your aircraft. It exceeds all the requirements of TSO C8e and AS8016A while providing the following functionality: • Installer selectable for 0-2,000fpm, 0-3,000fpm, 0-4,000fpm or 0-6,000fpm rates of change. • Graphic bar indication of rate of change • Precision digital rate of change indication. • Fits standard 2-1/4" mounting hole. • wt: 4.3 oz

VSI.....P/N 10-006271 ..... ---

AEROSPACE LOGIC MANIFOLD PRESSURE & FUEL FLOW

The MF200 is an advanced, next generation manifold pressure and fuel flow combination instrument for flow rates up to 30gph. Manifold pressure functionality is TSO'd and meets the pressure accuracy requirements of SAE AS8042. Fuel flow functionality is TSO'd and meets the accuracy requirements of TSO C44c. Functional displays include: Primary - Real-Time analog data depiction and digital value display for both manifold pressure and fuel flow, Secondary - Real-Time analog data depiction and digital value display for both manifold pressure and fuel flow as well as fuel used, and Graphical trend display of manifold pressure and fuel flow data The MF200K30 is TSO'd and STC'd as a primary replacement instrument under all flight conditions (day/night VFR and IFR). This kit includes both an A200-PMP manifold pressure sensor and a A200-201A-6 fuel flow sensor for full functionality. .....P/N 10-05176 ..... ---

AEROSPACE LOGIC SINGLE MANIFOLD PRESSURE

The MP200 is an advanced, next generation single manifold pressure instrument. Manifold pressure functionality is TSO'd and meets the pressure accuracy requirements of SAE AS8042. Functional displays include: Real-Time analog data depiction and digital value display of manifold pressure, Graphical trend display of manifold pressure data, and The MP200K is TSO'd and STC'd as a primary replacement instrument under all flight conditions (day/night VFR and IFR). This kit includes a A200-PMP manifold pressure sensor and all installation hardware.

P/N 10-05177 ..... ---

AEROSPACE LOGIC MANIFOLD PRESSURE & TACHOMETER - BENDIX

The MT200 is an advanced, next generation manifold pressure and tachometer combination instrument. Manifold pressure functionality is TSO'd and meets the pressure accuracy requirements of SAE AS8042. Tachometer functionality is TSO'd to C49b and accuracy requirements of AS404C. Functional displays include: Simultaneous, real-time analog data depiction and digital value display for both manifold pressure and tachometer, Graphical trend display of both manifold pressure and tachometer data. Display and tracking of engine time. The MT200 is TSO'd and STC'd as a primary replacement instrument under all flight conditions (day/night VFR and IFR) This kit includes a A200-PMP manifold pressure sensor, and a Hall Effect sensor for Bendix type single magnetos. The sensor is mounted in the vent hole (closest to the engine) of the magneto. The instrument will work on all 4, 6 and 8 cylinder aircraft engines. Includes all installation hardware. .....P/N 10-05178 ..... ---

AEROSPACE LOGIC TM202 DUAL TACHOMETERKIT-BENDIXSINGLEMAGNETO

The TM202 is a precision dual tachometer that provides RPM data accurate to +/- 1RPM. It meets all the requirements of TSOC49b and provides the following functionality: RPM indication in both analog and digital format for both engines, including support for engines that require a limited RPM range, Independent engine time recording, Trend graph function representing RPM vs. Time for both engines simultaneously. This instrument kit includes two Hall Effect sensors for Bendix type single magnetos. The sensors are mounted in the vent hole (closest to the engine) of the magneto. The instrument will work on all 4, 6 and 8 cylinder aircraft engines.

P/N 10-05179 ..... ---

AEROSPACE LOGIC MANIFOLD PRESSURE & TACHOMETER - SLICK

The MT200 is an advanced, next generation manifold pressure and tachometer combination instrument. Manifold pressure functionality is TSO'd and meets the pressure accuracy requirements of SAE AS8042. Tachometer functionality is TSO'd to C49b and accuracy requirements of AS404C. Functional displays include: Simultaneous, real-time analog data depiction and digital value display for both manifold pressure and tachometer, Graphical trend display of both manifold pressure and tachometer data., and Display and tracking of engine time The MT200 is TSO'd and STC'd as a primary replacement instrument under all flight conditions (day/night VFR and IFR) This kit includes a A200-PMP manifold pressure sensor, and a Hall Effect sensor for Slick/Unison type magnetos. The sensor is mounted in the vent hole (closest to the engine) of the magneto. The instrument will work on all 4, 6 and 8 cylinder aircraft engines. Includes all installation hardware. .....P/N 10-05223 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AEROSPACE LOGIC CHT INDICATORS

Full color CHT instrument that provides simultaneous, real-time display of all cylinders. This kit includes thermocouple probes, all connectors and installation hardware. Functionality TSO'd and meets the temperature accuracy requirements of SAE AS8005 for a Class IIa (+/- 1%) instrument. Functional displays include: Real-time cylinder temperature display Single cylinder temperature monitoring while retaining graphic indications Graphic trend analysis and viewing of all cylinders simultaneously Programmable shock cooling monitor and indication TSO C43c

Part No.	Model No.	Description	Cyl.	Price
10-04485	CT204R2	CHT Instrument With 12mm Ring Probes	4	---
10-04486	CT204R4	CHT Instrument With 14mm Ring Probes	4	---
10-04487	CT204R8	CHT Instrument With 18mm Ring Probes	4	---
10-04484	CT204B	CHT Instrument With Bayonet Probes	4	---
10-04362	CT206R2	CHT Instrument With 12mm Ring Probes	6	---
10-04365	CT206R4	CHT Instrument With 14mm Ring Probes	6	---
10-04367	CT206RB	CHT Instrument With 18mm Ring Probes	6	---
10-04358	CT206B	CHT Instrument With Bayonet Probes	6	---
10-05171	ECT204	CHT And EGT Combo Kit without probes	---	---

AEROSPACE LOGIC EGT INDICATORS

Full color EGT instrument that provides simultaneous, real-time display of all six cylinders. This kit includes six Type-K ungrounded, 1 1/2" EGT clamp type thermocouple probes, all connectors and installation hardware Exhaust gas temperature functionality is TSO'd and meets the temperature accuracy requirements of SAE AS8005 for a Class IIa (+/- 1%) instrument
Functional displays include: Real-time cylinder temperature display, Menu select option for fast selection of display type, Automated rich-of-peak (ROP) leaning function, Automated lean-of-peak (LOP) leaning function, Single cylinder temperature monitoring while retaining graphic indications for all cylinders, and Graphic trend analysis and viewing of all cylinders simultaneously TSO C43.

Part No.	Model No.	Description	Cyl.	Price
10-04402	ET204P1	EGT Instrument with 1-1/2" Clamp Probes	4	---
10-04403	ET204P2	EGT Instrument with 2" Clamp Probes	4	---
10-04404	ET204P3	EGT Instrument with 2-1/2" Clamp Probes	4	---
10-04405	ET204PB	EGT Instrument with Bayonet Probes	4	---
10-04413	ET206P1	EGT Instrument with 1-1/2" Clamp Probes	6	---
10-04414	ET206P2	EGT Instrument with 2" Clamp Probes	6	---
10-04415	ET206P3	EGT Instrument with 2-1/2" Clamp Probes	6	---
10-04416	ET206PB	EGT Instrument with Bayonet Probes	6	---

AEROSPACE LOGIC FUEL PRESSURE/ AMMETER/VOLTMETER

The FA200 is an advanced, next generation fuel pressure and ammeter combinational instrument This kit includes an A200-PSF fuel pressure sensor, an A200-HAS Hall Effect current shunt and all installation hardware. meets requirements of SAE AS408C. Functional displays include Real-Time analog data depiction and digital value display Graphical trend display of fuel pressure and ammeter data TSO C47a

Part no.	Model No.	Description	Price
10-04449	FA200K	Fuel Pressure and Ammeter Kit	---
10-04451	FA200VK	Fuel Pressure and Ammeter Kit With Voltmeter	---

AEROSPACE LOGIC TACHOMETER KIT

The TM200 is a precision tachometer that provides RPM data accurate to +/- 1RPM. RPM indication in both analog and digital format, including support for engines that require a limited RPM range,Engine time Trend graph function representing RPM vs. Time This instrument kit includes the Hall Effect sensor for single magnetos. The sensor is mounted in the vent hole (closest to the engine) of the magneto. The instrument will work on all 4, 6 and 8 cylinder aircraft engines. TSOC49b

Part no.	Model No.	Description	Price
10-04478	TM200B	Tachometer Kit for Bendix Mag	---
10-04477	TM200S	Tachometer Kit for Slick Mag	---
10-05179	TM202B	Tachometer Kit for Dual Bendix Mag	---
10-05513	TM202S	Tachometer Kit for Dual Slick Mag	---

AEROSPACE LOGIC FL-100 DUAL FUEL LEVEL INDICATORS

Fuel level functionality is TSO'd and meets the repeatable accuracy requirements of SAE AS405C, +/- 1US Gallon. Functional displays include: Graphical indication of fuel level in each tankSelectable digital fuel quantity for each tank Fully programmable color indication to meet all aircraft marking requirementsGraphical fuel level indication, starting at power onThe FL202 instrument is TSO'd and STC'd as a primary replacement instrument under all flight conditions. It is a requirement of the STC that this be the only fuel level indicator, when installed.The FL202 instrument utilizes the existing fuel senders.

Part No.	Model No.	Description	Price
10-05174	F1201	Single Tank Resistive 300 Ohm Fuel Level	---
10-04432	FL202	Dual Tank Resistive 300 Ohm Fuel Level	---
10-05515	FL251	Single Tank 0-5v Fuel Level	---
10-04443	FL252	Dual Tank 0-5v Fuel Level	---

AEROSPACE LOGIC OIL PRESSURE & TEMPERATURE

The OPT200 is an advanced, next generation oil pressure and temperature combinational instrument. Oil temperature is TSO'd and meets the temperature accuracy requirements of SAE AS8005, while oil pressure meets the requirements of AS408C.Functional displays include:Real-Time analog data depiction and digital value display for both pressure and temperature Graphical trend display of both oil pressure and temperature dataThe OPT200 is TSO'd and STC'd as a primary replacement instrument under all flight conditions. This kit includes an A200-TSO oil temperature sensor and an A200-PSO oil pressure sensor plus all installation hardware

Part No.	Model No.	Description	Price
10-04465	OPT200K	Oil Pressure and Temperature Kit	---
10-04467	PT200VK	Oil Pressure and Temperature Kit with Voltmeter	---
10-04469	OP202K	Dual Oil Pressure Kit	---
10-04471	OP202VK	Dual Oil Pressure Kit with Voltmeter	---
10-04473	OT202K	Dual Oil Temperature Kit	---
10-04475	OT202VK	Dual Oil Temperature Kit with Voltmeter	---

AEROSPACE LOGIC VOLMETER / AMMETER

The VA200 is an advanced, next generation voltmeter and ammeter combinational instrumentThe ammeter portion of this instrument may be used as either a normal ammeter, indicating both charge and discharge current or a loadmeter, displaying the total load on the alternator/generator.STC'd as a primary replacement. Model No. VA200K. Voltmeter And Ammeter Kit Includes 100amp Shunt .....P/N 10-04480 ..... ---

AEROSPACE LOGIC CLOCK & OUTSIDE AIR TEMPERATURE

The CA200 is an advanced, next generation airborne timepiece plus a seven input annuciator. It can scan seven 200 Series instruments and report any out-of-limit conditions the moment they occur; all on one instrument. The CO200 is identical to the CA200 with the exception of the annunciator function. Outside air temperature functionality is TSO'd and meets the temperature accuracy requirements of SAE AS8005 for a Class IIa (+/- 1%) instrument. Functional displays include: • UTC Time • Local Time • Chronograph • Flight Time and Interval Timer • Seven annunciator sense inputs (CA200 only).
P/N 10-04348 ..... ---

AEROSPACE LOGIC SENSORS AND PROBES

Description	Part No.	Price
A200-TEC5 EGT Probe Kit	10-04813	---
A200-TEC20 EGT Probe Kit	10-04812	---
A200-TEC25 EGT Probe Kit	10-04800	---
A200-HAS Hall Effect Current Shunt	10-04808	---
A200-PSF Fuel Pressure Sensor	10-04804	---
A200-HMB Bendix Rotational Speed Sensor	10-04806	---
A200-HMS Slick Rotational Speed Sensor	10-04807	---
A200-PSO Oil Pressure Sensor	10-04805	---
A200-TSO Oil Temperature Sensor	10-04801	---
A200-TCB Bayonet CHT Probe Kit	10-04799	---
A200-PMP Manifold Pressure Sensor	10-04803	---
A200-TSA Air Temperature Sensor	10-04802	---

PLEASE SEE OUR WEBSITE FOR ADDITIONAL MODELS, INCLUDING STC'D MODELS.

JPI ENGINE SCANNERS

JPI EDM 700 ACCESSORIES

Accessories		
Description	**Part No.**	**Price**
EDM 700 Transducer (Fuel Pump)	10-27089	---
EDM 700 Transducer (Gravity)	10-27094	---
JPI EDM RPM Option	10-01720	---
Fuel Flow Without Transducer	10-05199	---
Fuel Flow With Transducer	10-05201	---
JPI Replacement Rpm Sensor For Pressurized Slick Mag	10-05458	---
JPI Replacement Rpm Sensor For Pressurized Bendix 1200 S	10-05459	---
JPI Replacement Rpm Sensor For Pressurized Bendix 20 Series	10-05460	---
JPI Replacement Rpm Sensor For Pressurized Dual Bendix Mag	10-05461	---
JPI Standard RPM Vent Plug Sensor for Bendix Mag.	10-05651	---
JPI Standard RPM Vent Plug Sensor For Slick	10-05652	---
TIT,Turbine Inlet Temperature Probe and Sensor	10-27090	---
EDM Carb Temp Probe 1/4-24 Thread 400128	10-27103	---
EDM-700/800/900 OAT Probe	10-27095	---
700/760/800 Oil Temperature Probe & Sender	10-27100	---
EDM 700 Induction Air Temperature Probe	10-02277	---
EDM 700 Compressor Discharge Temperature Probe	10-03451	---
EDM 700 IAT/CDT Induction Air & Compressor Temp.	10-27105	---
5050-T CHT Bayonet Probe	10-18500	---
M-113 CHT Gasket Probe	10-27093	---
JPI Probe M113-3/8	10-03689	---
M-111 Replacement EGT Probe	10-00830	---
5/8" Oil Temp Probe Adapter for Lyc./Cont.*	11-09614	---
Oil Temp Probe 400509 (5/8-18)	11-09614	---
EDM Option CHT Gasket 14mm Probe	10-04157	---
VDO Oil Press Sensor 1/4 NPT 0-150 PSI This oil pressure sender will not fit Rochester gauges.	10-04183	---
EDM PC Interface Cable	10-27112	---

IN

WAPSI AERO 2-CYLINDER ENGINE MONITOR

Designed for 2-stroke engines including the Rotax and Hirth product lines.
Wapsi Aero is excited to introduce a new affordable engine monitoring solution to the ultralight and light-sport markets. This instrument provides the features found in modern glass-panels at a fraction of the cost. All engine parameters are displayed on a single page to allow for quick assessment of engine health without flipping through menus. The clearly-marked ranges help the pilot quickly verify that the engine is operating within its normal limits and on-screen alarms indicate when these limits have been exceeded. The display also includes integrated airspeed and altitude indicators, making it a one-stop instrumentation solution for space-limited installations.
Features: • Bright sunlight-readable display • On-screen alarms • Simple gauge layout • User configurable limits • Easy-to-navigate menu system GRT EFIS compatible serial output

2 Stroke.....P/N 05-28994 ..... ---
4 Stroke.....P/N 05-29028 ..... ---

JPI EDM-730/830

The EDM-730/830 revolutionizes engine monitoring by the integration of brilliant full color graphical LCD display with the extremely popular EDM 700/800 series functionally and yet reduces the package size to the smallest on the market! The EDM-730 packs more features, functionality, and information onto its large full color screen than any other monitor available and features larger characters for easier reading. Oil pressure has also been added to the entire EDM series line. Mounting is a breeze due to its standard 3-4/8" format, and because it can be mounted in either portrait or landscape orientation, thus accommodating virtually any panel configuration. Depth behind the panel is an amazing 2-1/2". The unit is "Plug and Play" compatible with existing EDM-700/800 units.
Bayonet & Adapter: This option includes 3 bayonet probes and 1 adapter allowing existing CHT probe to gauge to receive data so both the existing CHT gauge and the EDM 730 can display the CHT info at the same time.

Features:
• User programmable engine parameters.
• Percent Horsepower.
• Rich of peak or lean of peak operation at the tough of a button.
• Full function fuel flow computer system.
• Links to GPS for enhanced fuel management.
• Full EDM scanner functionality.
• Unit easily set to display in either portrait or landscape mode
• Monitors: 4/6/7/8/9 cylinder engines, Turbocharged engines, RPM, MP, %HP, IAT, CDT, OAT, CAT, OIL P, OIL T, CHT, EGT, VOLTS, EGT, DIF, CLD, F FLOW, F USED, F REQD, F ENDUR, F REM

Model	Part No.	Price
EDM-730-4Cyl	10-03701	---
EDM-730-4Cyl - All CHT Bayonet	10-06946	---
EDM-730-4C W/ FF 201	10-03717	---
EDM-730-4C W/ FF 201 - All CHT Bayonet	10-06947	---
EDM-730-4C W/ FF 231	10-03718	---
EDM-730-4C W/ FF 231 - All CHT Bayonet	10-06948	---
EDM-730-6C	10-03703	---
EDM-730-6C - All CHT Bayonet	10-06949	---
EDM-730-6C W/ FF 201	10-03719	---
EDM-730-6C W/ FF 201 - All CHT Bayonet	10-06951	---
EDM-730-6C W/ FF 231	10-03720	---
EDM-730-6C W/ FF 231 - All CHT Bayonet	10-06952	---
EDM-730-7C	10-05180	---
EDM-730-7C W/ FF 231	10-05182	---
EDM-730-8C	10-05183	---
EDM-730-8C W/ FF 231	10-05198	---
EDM-730-9C	10-05187	---
EDM-730-9C W/ FF 231	10-05186	---
Fuel Flow Without Transducer	10-05199	---
Fuel Flow With Transducer	10-05201	---

UPGRADE YOUR EDM 700 TO THE EDM 730, OR YOUR EDM 800 TO THE EDM 830
This upgrade program will allow you to swap out your 700 to the new 730 or 800 to the new 830 as the new 730 and 830 use a standard 3-1/8" mounting hole. The 730/830 will use the same JPI probes and will better display engine parameters with this plug and play upgrade. Core must be sent back to JPI.

Description	Part No.	Price
EDM 800 to EDM 830	10-03864	---

WWW.AIRCRAFTSPRUCE.COM
Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

JPI EDM-350 EXPERIMENTAL ENGINE MONITORING SYSTEM

If all you want is EGT/CHT then the basic kits gives you everything you could want in a compact size with full customization features and the legendary JPI quality and accuracy. The Engine Data Management 350 system is the most cost effective, reliable piston engine experimental EDM instrument on the market. The basic kit includes: • EGT - Exhaust Gas Temperature • CHT - Cylinder Head Temperature • Included - Probes and Harness • VDC - Voltage • CLD - Shock Cooling on "All" Cylinders • ROP/LOP - Lean Find • DIFF - Engine Health • USB - Data Port built in • Data Record - 600 Hrs. at every 6 sec • EZTrends - Graphing software, including Google Earth Location

The compact Engine Data Management 350 system (3.5″ square) is the most advanced and accurate piston experimental engine-monitoring instrument on the market. The EDM 350 is not just another black box along for the ride. It is a Flight Engineer, Maintenance Manager, and Backup Instrument. For the price there is nothing that gets close to it. Customize with 17 options, including FF. You can think of the EDM 350 as your personal flight engineer. It's always there, working in the background, constantly watching over your engine while you concentrate on flying the aircraft. You can make an entire flight without ever pushing a button, if you so choose. Yet your EDM will be monitoring your engine parameters three times a second and will warn you instantly if any parameter exceeds the programmed limit.

Description	Part No.	Price
4 Cylnder Basic Package	10-06582	---
6 Cylinder Basic Package	10-06583	---

Full Package adds Amps, Volts, Fuel Pressure, and Fuel Level.

Description	Part No.	Price
4 Cylnder Full Package	10-06845	---
6 Cylinder Full Package	10-06846	---

J.P. INSTRUMENTS EDM-790 ENGINE MONITORING SYSTEM

The EDM 790 system is the most advanced and accurate twin piston engine-monitoring instrument on the market. TSO'd for quality, the EDM 790 is not just another black box along for the ride. It is a Flight Engineer … a Maintenance Manager … For the price there is nothing that gets close to it. You can almost think of the EDM 790 as your personal flight engineer. It's always there, working in the background, constantly watching over your engine while you concentrate on flying the aircraft. You can make an entire flight without ever pushing a button, if you so choose. Yet your EDM will be monitoring your engine parameters three times a second and will warn you instantly if any parameter exceeds the programmed limit.

Features: • EGT 4 or 6 probes • CHT 4 or 6 probes • Volts • Shock cooling • Span (highest to lowest EGT) • EGT Normalize mode • LOP/ROP function • Power connector • All required Harness 20 ft • EZTrends Graphing Software free • Serial Data recording -25 hours • 3 year Warranty

Specifications: • FAA Approved under TSO-C43B, DO-160C, DO-178B Level C & STC, SA 2586 NM • Size 3-1/8 in panel mount 7.5 deep. Weight: 1 LB. • Standard Functions LeanFind, EGT/CHT, Shock Cooling, Voltage, Differential EGT, Normalize, Long term data module for Data Logging and TIT (if applicable for Engine). • Optional Functions Fuel Flow, Oil Temperature 1 & 2, Turbine Inlet 2 (TIT-2), Outside Air (OAT) and Carburetor Temperature (CRB).

4 Cylinder .....P/N 10-05648 ..... ---
6 Cylinder .....P/N 10-05649 ..... ---

EDM 930 & 930T PRIMARY

True TFT Transflective Custom Display - Display brightness increases with ambient brightness, always sunlight readable. All gages have a Variable Scale and alarm limit to fit your engine. New form factor, panel size: 6"w X 4"h X 2.9"d. Records all engine parameters at 2 to 255 second intervals. Plot the data with EZplot. All probes and transducers supplied. High Flow transducer (120 GPH) included in EDM930T Compatible with and transmits RS-232 data to most MFD's, also sold less the display.

PISTON FUNCTIONS: • Tachometer/Hobbs • Manifold Air Press • 6 EGT/CHT • Oil Temp • Oil Press • Fuel Quantity • Fuel Press • OAT • Carb • Temp • TIT, TIT-2 • CDT • GMT • Votls/Amps 1-2 • Differential EGT • Shock cooling • GPH • Fuel remaining • Fuel Endurance • Fuel required to GPS waypoint • Fuel used • Percent of horse power • Receives data from any GPS and transmits data to any GPS.

Features: • Hands-free, automatic scanning • All programming done from the Front Panel • LeanFind™ finds the first and last cylinder to peak with true peak detect eliminates false peaks • Displays both leaned temperature below peak and peak • Battery voltage with alarm • Amperes (load or charge/discharge meter) • Programmable alarm limits • Normalize view • Exhaust Gas Temperatures (EGTs) to stable 1°F resolution • DIF low to high EGT with alarm • EGTs to stable 1°F resolution • Shock cooling monitored on every cylinder • User selectable index rate • Fast response probes • Non-volatile long term memory • Records and stores data up to 30 hours • Post-flight data retrieval • Download to Palm™ Computer • Data retrieval software • Oil pressure • Oil temperature • Outside air temperature • Fuel level • Fuel Flow • Solid-state rotor fuel flow transducer • Fuel quantity in gallons, kilograms, liters, or pounds • Low fuel quantity alarm • Low fuel time alarm • GPS interface • Instantaneous fuel flow rate • Total amount of fuel consumed • Total fuel remaining • Time to empty at the curent fuel flow rate • RPM and manifold pressure • Automatically calculates percent horsepower • History of extreme values during previous flight • Hobbs® timer

IF NECESSARY PAPERWORK IS NOT PROVIDED & ANY CHANGES ARE REQUIRED, THERE WILL BE A $200 FEE

FAA TSO PRIMARY

Description	Part No.	Price
EDM-930 (4)Cylinder Primary STC No Tank System	10-04909	---
EDM-930 (4) Cylinder Primary STC 2 Tank System	10-02111	---
EDM-930 (4) Cylinder Primary STC 4 Tank System	10-04731	---
EDM-930 (6) Cylinder Primary STC No Tank System	10-04911	---
EDM-930 (6) Cylinder Primary STC 2 Tank System	10-02112	---
EDM-930 (6) Cylinder Primary STC 4 Tank System	10-04732	---
EDM-930 (7) Cylinder Primary STC	10-02632	---
EDM-930 (8) Cylinder Primary STC	10-02633	---
EDM-930 (9) Cylinder Primary STC	10-02634	---

EXPERIMENTAL PRIMARY

Description	Part No.	Price
EDM-930-4CP-0 (4 Cyl) for NO Tanks	10-05236	---
EDM-930-4CP-2 (4 Cyl) for 2 Tanks	10-05237	---
EDM-930-4CP-4 (4 Cyl) for 4 Tanks	10-05238	---
EDM-930-6CP-0 (6 Cyl) for NO Tanks	10-05239	---
EDM-930-6CP-2 (6 Cyl) for 2 Tanks	10-05240	---
EDM-930-6CP-4 (6 Cyl) for 4 Tanks	10-05241	---
EDM-930-7CP (7 Cyl) for 4 Tanks	10-05242	---
EDM-930-8CP (8 Cyl) for 4 Tanks	10-05243	---
EDM-930-9CP (9 Cyl) High Flow Transducer	10-05244	---

ULTRAFLEX BRAIDED FIBERGLASS PROBE SLEEVES

Replacement 1/2 IN X 5 IN braided fiberglass sleeves like those furnished with JPI probes.
P/N 10-06282 ..... ---

JPI ENGINE SCANNERS

J.P. INSTRUMENTS EDM-960

The EDM-960 is the latest graphic engine analyzer for Piston Engine Twins from JP Instruments. The EDM-960, STC'd as Primary engine instrument, takes the best from their EDM-760 and adds total engine display monitoring including Tach, % Horsepower, Hobbs, Manifold Pressure, EGT, CHT, Oil Pressure, Oil Temp, Fuel Flow, Outside Air Temp, Volts, and Amps plus optional Fuel Pressure, Fuel Quantity, and Turbine Inlet Temp. Each individual engine display has a scale and alarm limit to fit your particular airplane. As with the popular EDM-760, the EDM-960 has internal memory that records all engine parameters that can be recalled and displayed on your computer to keep track of the health of your engine. Plus: warnings for shock cooling and excess temperatures, leaning assist for both "lean of peak, and "rich of peak".

IF NECESSARY PAPERWORK IS NOT PROVIDED & ANY CHANGES ARE REQUIRED, THERE WILL BE A $200 FEE

Description	Part No.	Price
JPI EDM-960-6C Twin	10-03726	---
JPI EDM 960-6C Twin 4 Tank System	10-04734	---
JPI EDM 960 6C No Tanks	10-04914	---
JPI EDM-960-4C Twin	10-03727	---
JPI EDM 960-4C Twin 4 Tank System	10-04733	---
JPI EDM 960 4C No Tanks	10-04913	---
JPI EDM-960-7C Twin	10-05202	---
JPI EDM-960-8C Twin	10-05196	---
JPI EDM-960-9C Twin	10-05197	---

TYPE K THERMOCOUPLE WIRE

K type Thermocouple Wire .....P/N 10-18600 ..... ---

J.P. INSTRUMENTS SLIM LINE DIGITAL ENGINE INSTRUMENTS

These compact engine instruments from have a bright red display and feature central remote and individual alarms on all gauges. The gauges are easily stackable in a homebuilt aircraft panel, and come complete with sensors. Specify voltage. NOT FAA APPROVED. **This is a secondary unit only. You must keep your original engine instrument**

Tachometer - Features quartz crystal and accuracy of 1 RPM. Resolution is 10RPM and includes red line alarm. Specify engine and magneto models, number of cylinders, voltage, and red line.
P/N 10-24900 ..... ---

Manifold Pressure - Features resolution of 0.1 inches mercury, accuracy of 0.1" Hg, solid state sensor, and over boost alarm. Range: 0-50".
P/N 10-24910 ..... ---

Outside Air Temperature (O.A.T.) - Features resolution of 1° and has range of -40 to 195° F..... P/N 10-24940 ..... ---

Oil Temperature - Features resolution of 1° and over temperature alarm of 235° F..... P/N 10-24960 ..... ---

Volt/Ammeter - Features resolution of 0.1 volts/amps and discharge alarm.
Ammeter Shunt - (100 Amp) ..... P/N 10-24925 ..... ---
Volt/100 amp-28V..... P/N 10-24921 ..... ---

Oil Pressure - gives readout in PSI and features resolution of 1 PSI and an under pressure alarm. ..... P/N 10-24930 ..... ---

Turbine Inlet Temperature (T.I.T) - Features resolution of 1° or 10° and a Hi-temperature alarm at 1650° F ..... P/N 10-24950 ..... ---

CHT Gauge - ..... P/N 10-06064 ..... ---

Boom Pressure For Crop Planes - .... P/N 10-06063 ..... ---

Fuel Pressure - Features Resolution of 1 PSI and under pressure alarm.
Slimline Injected 10-32 PSI ..... P/N 10-24970-30A..... ---
Slimline Carb 1-8 PSI..... P/N 10-24970-30B..... ---

JPI EDM-900 SINGLE ENGINE PRIMARY

The EDM-900 has a built in EDM-800, plus many other gauges in combination together. Fits in a standard 3" hole no panel rework. Made in California. **EDM-900 System Includes:** EDM-900 ALL IN ONE Bright VGA Display, Pre-Wired Harness for all functions, All EGT/CHT probes, Oil Pressure Transducer, Oil Temperature Sensor, Fuel Pressure Transducer, Oat Sensor, RPM Sensor, One required, Manifold Pressure Transducer, 100 amp Shunt (2) (for Amps), Volts pick-up V-1 and V-2, 2 GB memory Download/upload stick, FloScan Fuel Flow Transducer w/firesleeve, Demo DVD, and 3 year warranty.

FAA STC APPROVED

Description	Part No.	Price
900-4CP-0 (4 Cyl) for NO tanks Primary	10-04857	---
900-4CP-2 (4 Cyl) for L/R 2 tanks setup complete Primary	10-04858	---
900-4CP-4 (4 Cyl) for L/R and Aux 4 tanks setup complete Primary	10-04859	---
900-6CP-0 (6 Cyl) for NO tanks Primary	10-04860	---
900-6CP-2 (6 Cyl) for L/R 2 tanks setup complete Primary	10-04861	---
900-6CP-4 (6 Cyl) for L/R and Aux 4 tanks setup complete Primary	10-04862	---
900-7CP-4 (7 Cyl) for L/R and Aux 4 tanks setup complete Primary	10-04863	---
900-8CP-4 (8 Cyl) for L/R and Aux 4 tanks setup complete Primary	10-04864	---
900-9CP-4 (9 Cyl) for L/R and Aux 4 tanks setup complete Primary	10-04865	---

EXPERIMENTAL

Description	Part No.	Price
EDM-900-4CP-0 (4 Cyl) for NO Tanks	10-05226	---
EDM-900-4CP-2 (4 Cyl) for 2 Tanks	10-05227	---
EDM-900-4CP-4 (4 Cyl) for 4 Tanks	10-05228	---
EDM-900-6CP-0 (6 Cyl) for NO Tanks	10-05229	---
EDM-900-6CP-2 (6 Cyl) for 2 Tanks	10-05231	---
EDM-900-6CP-4 (6 Cyl) for 4 Tanks	10-05232	---
EDM-900-7CP-4 (7 Cyl) for 4 Tanks	10-05233	---
EDM-900-8CP-4 (8 Cyl) for 4 Tanks	10-05234	---
EDM-900-9CP-4 (9 Cyl) for 4 Tanks	10-05235	---

JPI EDM 900 SERIES P-3 MAP RPM OIL PRESS HARNESS

P/N 10-07452 ..... ---

JPI 900 SERIES P-4 FUEL FLOW AND GPS HARNESS

P/N 10-07453 ..... ---

JPI EDM 900 SERIES CIES RESISTIVE HARNESS

P/N 10-07454 ..... ---

J.P. INSTRUMENTS FUEL SCAN – 450

- Continuous display of fuel burned, in upper display in Gallons per Hour. Liters and Lbs per hr also available.
- An amazingly low price includes Instrument harness and a Flow Scan 201 or 231 transducer.
- Upgrade your old Hoskins, or Shadin System. Will function with any K factors; connector is pin to pin compatible.
- Automatically calculates the K factor.
- All programming done from the front panel.
- Size 2.25" diameter (small hole)
- Light Weight 5 oz with Super Thin 1.5" depth
- Three year warranty. (yes, the only three year warranty around!)
- Serial port sends and receives data from all GPS units, even hand-helds.
- Calculates fuel to next waypoint.

FS 450 Scanner Fuel Pump.....P/N 10-00135 ..... ---
Fuel Scan 450 Gravity Fed+ .....P/N 10-00134 ..... ---
FS-450R Fuel Scan Rotax (2 Transducers for aircraft with return fuel line).....P/N 10-00266 ..... ---
FS-450M-3 3-1/8" Twin Engine .....P/N 10-03692 ..... ---
FS 450 H High Flow up to 120GPH.....P/N 11-13931 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FP-5L FUEL FLOW, PRESSURE, HORSEPOWER AND GPS PMAd & STCd PRIMARY REPLACEMENT INSTRUMENT

Positively the best Fuel Flow/Horsepower Instrument there is! Nothing else even comes close. The FP-5L's High-Powered Features Include: • HORSEPOWER, to 1 percent hp. No other fuel gauge provides this! • FLOW, displayed in Gallons, Pounds, Liters or British Gallons. • AUTOMATIC K-Factor Calibration for UNSURPASSED ACCURACY. • FUEL DISPLAYS: "Used for Flight", "Used Since Fill Up", "MPG", "Fuel Required to. • Destination", "Fuel Remaining", "Time to Empty." • SCAN MODES: Manual and Automatic. • Recurring Fuel Used Alarm Pilot Programmable. • 2 Low Fuel Alarms Pilot Programmable w/ Red Warning LED. • Fuel Remaining Displayed To 1/10 Gal. • Automatically Calculates And Displays "Time to Empty", "Fuel Req to Dest," and "Fuel Reserve.". Displays Nautical and Statute Miles per Gallon. Multiple Data Outputs & Inputs, Handhelds & Panel Mounts. One-of-a-kind Auxiliary Channel can be used to monitor an additional function (choose one): EGT, TIT, CHT, OAT, Carb Temp, Oil Temp, Cowl Temp, Fuel Pressure, Gyro Vacuum, Manifold Pressure, Volts or Amps. Specs: 2-1/4" mount, 3.65" deep, 28 oz. pkg, Backlit for Night Operation, Superior Sunlight Viewability, External Warning Line. Operates from 7.5 to 30 volts @ .3 amps.

Models	Description	Part No.	Price
FP-5L	Fuel Flow w/ Horsepower & GPS input/output (instrument only; no transducers)	10-01217	---
FP-5L/FT-60	Fuel Flow w/ Horsepower & GPS input/output with FT-60 - PRIMARY	10-05017	---
FP-5L/FT-60/P	Fuel Flow w/ Horsepower & Pressure GPS input/output with FT-60	10-25310	---
FP-5L/FT-90	Fuel Flow w/ Horsepower & GPS input/output with FT-90	10-05019	---
FP-5L/FT-90/P	Fuel Flow w/ Horsepower & Pressure GPS input/output with FT-90	10-05018	---
FP-5L-60	Fuel Flow w/ Horsepower & GPS input/output, includes FT-60 Flow Transducer	10-01045	---
FP-5L-90	Fuel Flow w/ Horsepower & GPS input/output, includes FT-90 Flow Transducer	10-01050	---

FP-5 & FP-5L AUXILLARY OPTIONS

The FP-5 & FP-5L feature an Auxiliary Channel. Any one of the following choices can be added to at any time.			
FFDM-1 w/ FT-60	FUEL FLOW Differential Module, for aircraft with a Pressure Carburetor. Includes FT-60 or FT-90 Flow Transducer to measure the returned fuel. Please specify FT-60 or FT-90. DOES NOT use up the FP-5's Auxiliary channel.	10-25325	---
FM-Temp-P-110	EGT hose clamp probe & 6' cable. Compensates HP reading when leaning.	10-02188	---
FM-Temp-P-128	OAT or CARB Temp probe (1/4"-28 thread) and 6' cable	10-02769	---
FM-Temp-P-120	Secondary OIL Temp probe (5/8"-18 thread) and 6' cable	10-02770	---
FM-Temp-P-111	Secondary TIT or OIL Temp probe (1/8: NPT adjustable depth) and 6' cable	10-02765	---
FM-Temp-P-112	Secondary TIT or OIL Temp probe (7/16-20 thread adjust. depth) and 6' cable	10-02766	---
FM-Temp-P-114	Secondary TIT or OIL Temp probe (1/4" NPT adjust. depth) & 6' cable	10-02767	---
FM-OP	Secondary OIL PRESSURE. Includes PT-100GA Pressure Transducer	10-25336	---
FM-FP	Secondary Fuel Pressure. Includes PT-30GA Pressure Transducer	10-25337	---
FM-MP	Secondary Manifold Pressure. Includes Pressure Transducer	10-25338	---
FM-RPM 6C	Secondary RPM. Connects directly to the Mag Switch	10-01786	---
FM-Gyro	Gyro Vacuum. Includes Pressure Transducer	10-25339	---
FM-VA	Secondary Volts or Amps (one or the other) w/ S-50 amp shunt.	10-25342	---

E.I. INSTRUMENTS

10-01355 10-01339 10-01348 10-01373

The entire line of Electronics International digital instruments offers precise readings at exceptional prices. All gauges are accurate to 1%. They are FAA-approved under STC No. 1626NM. Furnished complete with all probes & leads.

Single Engine	Description	Part No.	Price
E-1	Single-Channel EGT or CHT, STCd, TSOd, PMA'd 2 1/4" Mount, 2.5" Depth, 12 oz. Kit	10-01355	---
C-1		10-01338	---
T-1P	EGT, CHT or TIT, Primary Replacements STCd, TSO'd, PMA'd w/ OverTemp Warning Light, 2 1/4" Mount, 2.5" Depth, 12 oz.	10-01373	---
E-1P		10-02762	---
C-1P		10-01339	---
EC-1	Switchable from EGT to CHT (1 of ea), STCd, TSOd & PMAd. 2 1/4" Mount, 2.5" Depth, 16 oz	10-01358	---
EAC-1	STC'd, TSO'd, PMA'd. - EGT/OAT/CHT Ice Zone Warning Light (from 10 to 39 degrees Celsius)	10-00806	---
CA-1	STC'd, TSO'd, PMA'd - CARB TEMP/ OAT w/Ice Zone Warning Light. (from 10 to 39 degrees Celsius)	10-01351	---
A-1	OAT w/ Ice Zone Warning Light, STC'd, PMAd, TSOd (light comes on between 10 and 39 degrees F).	10-01307	---
E-4	EGT and CHT instruments, STCd, TSO'd and PMAd. Four Channels (EGT or CHT)	10-01356	---
C-4		10-01348	---
E-6	EGT and CHT instruments, STCd, TSO'd and PMAd Six Channels	10-01357	---
C-6		10-01350	---
FOR TWINS Orders for following instruments MUST specify type of probes: EGT hose clamp, TIT (hose clamp, 1/8" NPT, 1/4" NPT or 7/16 x 20). CHT, and OverTemp Limits.			
TC-1PT	Dual Display 1 TIT & 1 CHT w/ OverTemp Lights, 3-1/8" mount	10-02732	---
FOR TWINS Not Primary Replacement Instruments, but STCd, PMA'd, TSOd. Same order requirements and specifications as above:			
E-2	(one display, switchable from left to right engine, either EGT or CHT)	10-00098	---
C-2		10-01661	---
EC-2	(one display, switchable from EGT, L/R and CHT L/R).	10-01359	---
FL-1M	SIngle Fuel Level Instrument is NON STC Experimental Aircraft Only. Designed to work with E.I.'s Magnetic Float Sensor P-300M.	10-05084	---
FL-2M	Dual Fuel Level Instrument is NON STC Experimental Aircraft Only. Designed to work with E.I.'s Magnetic Float Sensor P-300M.	10-05085	---
P-300M	Magnetic Float Sensor	10-05097	---

IN

E.I. DIGITAL/GRAPHIC INSTRUMENTS

These Digital/Graphic Instruments are solid state and hold their accuracy over time and a range of environmental conditions. The colorful Graphic Analog display emits green, yellow, or red lights enabling the pilot to spot problems immediately without interpreting a needle. Gauges mount in 2-1/4" instrument holes.

TACHOMETER

The colorful Graphic Analog display emits green, yellow, or red light enabling the pilot to spot problems immediately without interpreting a needle. The Digital display constantly provides an exact indication of each instrument function. Gauges mount in 2-1/4" instrument holes. These instruments (except fuel level) are STCd & TSOd for certificated aircraft. The R-1 is a precision RPM instrument featuring a 210 degree graphic analog display and a full four-digit digital display. The 10 RPM resolution allows for precise RPM settings. The R-1 features a tach time recorder which records the time the engine is operated over 1300 RPM as well as an automatic flight timer which records the time starting when RPM reaches 2000 (takeoff) and then drops below 2000 (landings). Installation of the R-1 is simple. It connects to the mag. lead through isolator and requires no cables. It is backlit and operates on 12-24volt systems. Wt. 10 oz. Max. Digital Range 5000 RPM. Accuracy 1%. Specify red line, yellow & green arcs, and magneto models, as well as aircraft make & model .....P/N 10-25200 ..... ---

OIL PRESSURE/TEMPERATURE

OPT-1, OIL TEMP/PRESSURE: STC'd, PMAd and TSO'd as PRIMARY REPLACEMENT. OPT-1 features dual 90 degree graphic analog displays w/ green, yellow, and red LEDs. Accurate to 1 PSI and 1°F Resolution. External Oil Press and Temp Transducers (no oil in the cockpit). 2 1/4" Mount. 3.65" Depth. 22 Oz. Kit. Superior sunlight viewability. Backlit. Operates from 7.5 - 35 volts @ .3 amps. **Note**: This instrument may come with labels on the faceplate rather than silkscreening, depending on your a/c's required markings .....P/N 10-25205 ..... ---

MANIFOLD PRESSURE

M-1, MANIFOLD PRESSURE. STC'd, PMA'd & TSO'd as PRIMARY REPLACEMENT. 210 degree graphic analog display w/ green, yellow, and red LEDs. Accurate 1" Mercury Resolution digital display. Connects to std pressure line through 1/4" male flare union. 2 1/4" Mount. 3.65" Depth. 13 Oz. Unit. Viewable in direct sunlight. Backlit Operates from 7.5 to 30 volts @ .3 amps. Note: This instrument may come with labels on the faceplate rather than silkscreening, depending on your a/c's required markings .....P/N 10-25210 ..... ---

VOLTS/AMPS

VA-1A, VOLTS/AMP. The VA-1A is a FAA/PMA approved instrument which features a discharge warning light to act as an early warning device alerting you as soon as discharging begins. This is critical in giving the pilot as much time as possible to reduce electrical load and extend the life of the battery in flight. Also, by monitoring load currents to .1 amps the pilot can check important aircraft functions such as retracts, boost pumps, transmitter power, pilot heat, navigation lights, transponder, strobes, and any other electrical equipment. The VA-1 can replace your existing amp gauge. It is backlit for night operation and operates on 12 or 24 volt systems. Available with internal or external shunt. Wt. 9 Oz. .....P/N 10-00809 ..... ---

VA-1A-XX, VOLTS/AMP

STCd, PMAd as PRIMARY REPLACEMENT. (For use with External Shunt. Discharge and High Voltage Warning Lights. 100 amp capability (or order VA-1A-300 for 300-amp capability). .1 volt and .1 amp Resolution. Accuracy: 1%. 2 1/4" Mount. 2.5" Depth. 9 Oz. Unit. Superior sunlight viewability. Backlit. Operates from 7.0 to 40 volts @ .1 amp.

Description	Part Number	Price
VA-1A-50 (S-50 external shunt)	10-01378	---
VA-1A-300 (S-300 external shunt)	10-01394	---
RSVA-3 Remote Switch	10-03207	---

FUEL LEVEL INSTRUMENTS

For TC holders, STC holders or Experimental Aircraft No STCs. FL-1CA Fuel Level Instrument. The FL-1CA is to be used w/ EI's P-300C Capacitive Fuel Probe (custom order probe length from 6" to 20'). The FL-1CA features a 210 degree Arc of LEDs for an excellent "field of vision" reference and a Digital Display. Can display in gallons (one or one-half gallon increments), pounds or liters.

Specifications: 2 1/4" Mount, 3.65" Depth, 10 Oz. Unit, Viewable in direct sunlight and Backlit for night operations.

Model	Description	Part No.	Price
FL-1CA	The FL-1CA is to be used w/ EI's P-300C capacitive fuel probe (order from 6" to 20' long). 210 degree LED arc + a digital display. Can display in gallons (one or one-half gallon increments), pounds or liters. **Specifications**: 2 1/4" Mount, 3.65" Depth, 10 Oz. Unit, Viewable in direct sunlight and Backlit for night operations.	10-00386	---
FL-1RA-12/24	The FL-2RA-12 designed to be used on a 12-volt system w/ resistive fuel probes. Features a 210 degree LED arc + a digital display. Max resistance between 90-270 ohms. Can display in gallons (one or one-half gallon increments), pounds or liters. **Specifications**: 2 1/4" Mount, 3.65" Depth, 10 Oz. Unit, Viewable in direct sunlight and Backlit.	**12V**	
		10-03209	---
		24V	
		10-00388	---
FL-2CA	The FL-2 is a fuel level instrument featuring dual 90 degree LED arcs + a digital display. The FL-2 can display in gallons (one or one-half gallon increments), pounds or liters. **Specifications**: 2 1/4" Mount, 3.65" Depth, 10 Oz. Unit, Viewable in direct sunlight, Backlit, Operates from 7.5 to 35 volts at .3 amps.	11-03788	---
FL-2RA-12/24	The FL-2 is a fuel level instrument featuring dual 90 degree LED analog displays and a digital display. The FL-2 can display in gallons (one or one-half gallon increments), pounds or liters. FL-2. **Specifications**: 2 1/4" Mount, 3.65" Depth, 10 Oz. Unit, Viewable in direct sunlight, Backlit, Operates from 7.5 to 35 volts at .3 amps. Please specify 12/24 volt at the time of order.	11-03789	---
FL-2RA-24		11-07104	---

EI 37 DEGREE FLARE FITTING

This is a 1/4" 37 Degree Flare Fitting used to kit the MP tube of a hard line to interface the Vacuum Pressure Transducer.

P/N 10-06847 ..... ---

ELECTRONICS INTERNATIONAL LED INTENSITY CONTROL

Controls the intensity of the green LED"s on the UBG-16, R-1, M-1, OPT-1, FL-2, FP-5(L), and other EI instruments. This unit can be connected to any one or all of these instruments at the same time. It provides linear control of the intensity of the green LED"s for low ambient light or night operation. Mounts in a 1/4" hole. Operates on a 12 or 24 volt system. E.I. products include all documentation and certifications.

Description	Part No.	Price
EI LED Intensity Control - CP1	10-02035	---
EI LED Intensity Control - CP1A Allows Pilot to run current (to power lighting)	10-06280	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MVP-50P GLASS PANEL ENGINE & SYSTEM MONITOR

MVP-50P Non-Certified Engine Monitoring System For Standard System installs or FADEC System installs. FADEC NOTE:If already equipped with "FADEC System" MVP-50P will pull data directly from FADEC, minimal hardware rewuired but is included. **E.I. products include all documentation and certifications.** The MVP-50P replaces over 15 Engine Instruments and 50 Functions in a single, full color, enhanced TFT glass display instrument. It features excellent view-ability, even in direct sunlight. The MVP-50 is an unrivaled Engine and Aircraft System Monitor with an easy-to-read and easy-to-use format. There are Pilot-Programmable colors, ranges and limits and a voice alarm for each instrument displayed. Its "System Page" displays trims, flaps, wheel status lights, many system parameters and annunciators. This is the most powerful engine and system analyzer on the market, featuring the following displays: Bar Graph (with Scan and Hottest Cylinder modes), Rich-of-Peak, Lean-of-Peak, Full Digital, Normalized and Differential. The MVP-50P's instant red and yellow visual warnings, as well as voice annunciators for all Programmed Limits, eliminate the need to constantly scan an entire panel for possible problems. **In-Flight Data:** The MVP-50P provides many "Flight Data Screens" to reduce cockpit clutter and pilot workload. **Some of these screens are**: Fuel Management, Timers, Clocks and Date, Weight and Balance, Data Recording, Custom Checklists (Start, Taxi, Run-up w/ Mag Drop, Take Off, Landing, Emergency, Custom Flight Plans, General Information (Aircraft Performance, Engine Diagnostics, VSI Lights, Airspeed, VFR Minimums, Altitude Table, Light Gun Signals, Transponder Codes, Frequencies, Real-Time Out (providing telemetry for UAV racers, etc.). **Plus Additional Screens:** Flight Log, Max Data Log, Min Data Log and others. And it's easy to create your own Custom Screens and download them to the MVP-50P through its USB port. Compatible with OP Technologies and Chelton. EGView Charting Software is also available for use with the MVP-50P.

Experimental	Description	Part No.	Price
MVP-50P-4	4-Cylinder Pkg	10-01192	---
MVP-50P-6	6-Cylinder Pkg	10-01191	---
MVP-50P-7	7-Cylinder Pkg	10-03174	---
MVP-50P-8	8-Cylinder Pkg	10-03175	---
MVP-50P-8W	8-Cylinder Water-Cooled Pkg	10-03178	---
MVP-50P-9	9-Cyl. Radial Pkg	10-03176	---
MVP-50P-12W	12-Cylinder Water-Cooled Pkg	10-03177	---
MVP-50P-4-FADEC	4-Cyl. FADEC Pkg	10-03173	---
MVP-50P-6-FADEC	6-Cyl. FADEC Pkg	10-03172	---
Certified	**Description**	**Part No.**	**Price**
MVP-50P-4-C	4 Cylinder Certified	10-03867	---
MVP-50P-6-C	6 Cylinder Certified	10-03868	---
MVP-50P-8-C	8 Cylinder Certified	10-03869	---
MVP-50P-4T-C	Twin 4 Cylinder Certified	10-05083	---
MVP-50P-9-C	9 Cylinder Certified	10-07088	---
MVP-50P-6T-C	Twin 6 Cylinder Certified	10-05082	---

TEMPERATURE PROBES FOR MVP-50P & MVP-50T

Models	Description	Part No.	Price
P-100-MVP	CHT probe, screw-in, 3/8"-24	10-00808	---
P-101MVP	CHT probe, Military Bayonet.	10-00438	---
A-101MVP	CHT Adaptor for P-101 Probe, 3/8"-24	10-00374	---
P-102-18-MVP	CHT probe, 18mm gasket.	10-01368	---
P-102-14-MVP	CHT probe, 14mm gasket	10-02037	---
P-102-12-MVP	CHT probe, 12mm gasket	10-02038	---
P-102-3/8-MVP	CHT probe, 3/8" gasket, piggy-backs on a primary CHT probe	10-02039	---
P-110-F-MVP	Fast-Response EGT/TIT probe, Hose Clamp Type, .125"D	10-00376	---
P-111-MVP	Std TIT probe, 1/8" NPT, .187" D	10-02040	---
P-111-F-MVP	Fast Response TIT probe, 1/8" NPT, .187" D	10-02041	---
P-112-MVP	Std TIT probe, 7/16"-20, .187" D	10-00378	---
P-114-MVP	Std TIT probe, ¼" NPT, .187" D	10-00379	---
P-114-F-MVP	Fast Response TIT probe, ¼" NPT, .125" D	10-02042	---
P-120-MVP	OIL Temp probe, 5/8"-18	10-00302	---
P-104-MVP	Universal Temp probe, #6 hole	10-00380	---

OPTIONAL OUTPUT INTERFACES AVAILABLE FOR MVP PKGS LISTED ABOVE

Models	Description	Part No.	Price
RTDO	Real-Time Data Out. Can be used to provide telemetry for UAV's, racers and other applications.	10-03168	---
	ACCESSORIES FOR MVP PKGS		
USB-64	USB Memory Stick, 64 MB or larger. Used to upload and download data to the MVP-50P.	10-03186	---
CP-1-MVP	LED Intensity Control Pot. External pot used to control the display intensity.	10-03211	---
EDC-33P-4/6	4/6 Cylinder Engine Data Converter. Adding a second EDC to the MVP allows. Additional pressures, annunciators and other functions to be monitored on the MVP (uses the Input Port 3 on the MVP).	10-03184	---
MVP-50P Head Only	Display unit only! May be used to display parameters in a second location Display Only	10-01193	---
PT-30ABS-MVP	Absolute Pressure Transducer, 0 to 40 In Hg (Manifold Press or Cabin Altitude).	10-03238	---
---	Carbon Monoxide Detectors	10-06985	---

PRESSURE TRANSDUCERS AND MODULES

(Each includes a Cbl-4D-6' harness when ordered w/ the MVP-50 & MVP-50T)

PT-30GA-MVP	Pressure Transducer, 0 to 40 PSI (see Accessories page for details)	10-03232	---
PT-300GA-MVP	Pressure Transducer, 0 to 300 PSI (see Accessories page for details)	10-01203	---
PT-3000S-MVP	Pressure Transducer, 0 to 3000 PSI (see Accessories page for details)	10-03236	---
PT-30ABS-MVP	Absolute Pressure Transducer, 0 to 36 In Hg (Manifold Press or Cabin Altitude)	10-03238	---
PT-30ALT-MVP	Altitude Transducer	10-03239	---
PT-60ABS-MVP	Absolute Pressure Transducer, 0 to 70 In Hg (Manifold Pressure)	10-03240	---
PT-05Diff-MVP	Differential Pressure Transducer, 0 to 60 In Hg (Vac Pressure or Cabin Diff Pressure)	10-03241	---
PT-04H20-MVP	Differential Pressure Transducer, 0 to 5 In H20	10-03242	---
DPIM-1-30-MVP	Differential Pressure Interface Module for aircraft that require fuel pressure to be Measured in reference to the upper deck. Includes a PT-30GA pressure transducer to measure the upper deck pressure.	10-03205	---
Cbl-4D-6'	One 6' 4-wire cable with crimped D-Sub pins. Used to interface any pressure transducer, fuel flow transducer or fuel level probe to the MVP system. Add $.95 per foot to the price for anything over the standard 6' length.	10-03183	---
	FUEL FLOW TRANSDUCERS AND MODULES		
FT-60	Fuel Flow Transducer (Red Cube), .6 to 70+ GPH	10-01196	---
FT-90	Fuel Flow Transducer (Gold Cube), 3 to 125+ GPH	10-01224	---
FT-180	Fuel Flow Transducer (Black Cube), 5 to 250+ GPH	10-01197	---
FFDM-1-MVP-FT60	Fuel Flow Differential Module for aircraft w/ a pressure carburetor. Includes FT-60 or FT-90 transducer to measure the returned fuel. Please specify FT-60 or FT-90 at time of your order.	10-03244	---
FFDM-1-MVP-FT90		10-03245	---
FM-Flow-P	Measures Fuel Flow from a pulsed injector signal.	10-03206	---
	FUEL LEVEL PROBES AND MODULES		
RFLM-4-12	Resistive Fuel Level Module. Must be used w/ EI's "EDC" to measure up to 4 Resistive Fuel Level Sensors.	10-02772	---
RFLM-4--24		10-03231	---
P-300C	3/4" Capacitive Fuel Level Probe w/ Accessories. (see our Accessories Page for details.) Specify Probe length at time of order.	10-00382	---
P-300C-Mini-1/8"	3/16" Capacitive Fuel Level Probe (see our Accessories Page for details)	10-03193	---
P-300C-Mini- 1/4"		10-03194	---

VOLTS AND AMPS MODULES AND SHUNTS

FM-VA-MVP-50	Volts/Amps Module. Allows any temperature or pressure channel on EI's EDC to measure Voltage and Current on a separate bus. Comes w/ an S-50 or S-300 shunt.	10-03247	---
FM-VA-MVP-300		10-03248	---
	MVP SCREEN ANNUNCIATOR INTERFACE UNITS		
VI-221	Voltage Interface Unit. Allows any temperature or fuel level channel on our EDC to measure the output voltage of any device. This voltage measurement can then be used to drive an annunciator (Canopy Latch, Gear Lights, Baggage Door, etc.) that will be displayed on the MVP screen.	10-03187	---

IN

ELECTRONICS INTERNATIONAL CGR-30 PRIMARY ENGINE MONITOR SYSTEM

Easily replace several of your aircraft's primary and non-primary engine instruments with one EI CGR. For example, simply replace your existing tach with a CGR. In addition to replacing our tachometer, the STC'd CGR will replace MANY of your existing primary and non-primary instruments in the same instrument, in the one 3-1/8h hole. The CGR mounts flush with your panel and doesn't protrude from your panel (as competitor's gauges do). E.I. products include all documentation and certifications.

Available Functions: The CGR-30P comes standard with a state-of-the-art, full color bar graph which assists with ROP/LOP leaning. Additionally, the bar graph has both normalized and digital readout screens.

Model No.	Description	Part No.	Price
CGR-30P-4-B	4-Cylinder Basic Package with RPM, Fuel Flow, EGT/ CHT Bar Graph, Fuel Remaining, Volts, OAT, Tach Time, Local Time, Zulu Time, Flight Timer, Fuel Used for the Flight, Fuel Used Since Fill-up and all GPS/Fuel Flow Data.	10-05428	---
CGR-30P-4-P	4-Cylinder Premium Package with RPM, EGT/CHT Bar Graph, Fuel Remaining, Fuel Used, FPS/Fuel Flow Data, Engine Time, Tach Time, 5 Primary Functions of your choice and 5 Non-Primary functions of your choice.	10-05429	---
CGR-30P-6-B	6-Cylinder Basic Package with RPM, Fuel Flow, EGT/ CHT Bar Graph, Fuel Remaining, Volts, OAT, Tach Time, Local Time, Zulu Time, Flight Timer, Fuel Used for the Flight, Fuel Used Since Fill-up and all GPS/Fuel Flow Data.	10-05430	---
CGR-30P-6-P	6-Cylinder Premium Package with RPM, EGT/CHT Bar Graph, Fuel Remaining, Fuel Used, FPS/Fuel Flow Data, Engine Time, Tach Time, 5 Primary Functions of your choice and 5 Non-Primary functions of your choice.	10-05431	---
CGR-30P-7-B	7-Cylinder Basic Package	10-07070	---
CGR-30P-7-P	7-Cylinder Premium Package	10-07071	---
CGR-30P-9-B	9-Cylinder Basic Package	10-07072	---
CGR-30P-9-P	9-Cylinder Premium Package	10-07073	---
CGR-30C-EDC	Stand alone system or companion to CGR-30P. Provides up to 16 Primary Replacement Engine Instruments with EDC	10-05758	---
CGR-30C	Stand alone system or companion to CGR-30P. Provides up to 16 Primary Replacement Engine Instruments w/o EDC	10-05759	---
CGR-30 Combo Packages	Combo Package 4 Cylinder, Single Engine	10-06564	---
	Combo Package 6 Cylinder, Single Engine	10-06565	---
---	Carbon Monoxide Detectors	10-06985	---

CGR-30 COMBO EXPERIMENTAL PACKAGES

Model No.	Description	Part No.	Price
CGR-30-COMBO-4-EXP	4-Cylinder Combo CGR-30P + CGR-30C (Non-Certified)	10-07512	---
CGR-30-COMBO-6-EXP	6-Cylinder Combo CGR-30P + CGR-30C (Non-Certified)	10-07513	---
CGR-30-COMBO-EXP-A	4/6-Cylinder Combo CGR-30P + CGR-30C Upgrade Package (Non-Certified) Deposit Refunded Upon Receipt of Trade-In Engine Analyzer	10-07517	---
CGR-30-COMBO-EXP-AF	4/6-Cylinder Combo CGR-30P + CGR-30C Upgrade Package (Non-Certified) Deposit Refunded Upon Receipt of Trade-In Engine Analyzer & Fuel Flow Instrument	10-07518	---
CGR-30P-4-EXP	4-Cylinder Experimental Package (Non-Certified)	10-07506	---
CGR-30P-6-EXP	6-Cylinder Experimental Package (Non-Certified)	10-07507	---
CGR-30P-EXP-A	4/6-Cylinder Experimental Upgrade Package (Non-Certified) Deposit Refunded Upon Receipt of Trade-In Engine Analyzer	10-07510	---
CGR-30P-EXP-AF	4/6-Cylinder Experimental Upgrade Package (Non-Certified) Deposit Refunded Upon Receipt of Trade-In Engine Analyzer & Fuel Flow Instrument	10-07511	---

MVP-50T GLASS PANEL MULTI-FUNCTION DISPLAY

Replaces 15 engine gauges and 50 functions. Remarkable full-color, enhanced TFT Glass Display (excellent viewability, even in direct sunlight) Pilot-Programmable Colors, Range Markings, Limits and Voice Alarms (for each parameter monitored) "System Page" to display Trims, Flaps, Wheel Status Lights, and many other system parameters and annunciators. 27 Pilot-Customized Annunciators at the top of the "Main Page". Fuel Management, Timers, Clocks, Date, Weight & Balance. Data Recording (.33 – 6 min, 665 hours @ 6 seconds). Pilot-Customized Checklists and Flight Plans. General Info, Flight Log, Start Log, Max & Min Data. Pilot easily can generate Custom Screens and download them to the MVP-50P through the USB port. Help Screen, GPS Interface and Data, Fuel Efficiency, Fuel Used for the Trip, Fuel Used Since Fill Up, Time to Empty, Distance to Empty, Fuel to Way Point, Time to Way Point, Distance to Way Point, Fuel Reserve, Time Reserve, Distance Reserve, Up Timer, Down Timer, Flight Timer, Engine Hours, Cycles, Date, Local and Zulu Time. Other functions, such as Fuel Level, Gyro Vac, Hydraulic Pressure, etc., may be added by purchasing an appropriate probe & harness, or transducer, etc. See our Accessories, "Probes and Transducers" section on previous page. Using your current Resistive Fuel probes require our FFLM-4-XX to interface with the MVP-50T System. Torque, Oil Pressure & Temperature, Fuel Flow & Pressure, OAT, Amps, Volts, Multiple Fuel Screens, Pre-wired Harness, N1 and N2 hookups. Includes EDC (Engine Data Converter), cables and harnesses, transducers, shunt (for amps), USB Download/ Upload Memory Stick, and our AV-17CP (Voice Warning Control Panel). Only 5.55"x 5.15"x 2.4" deep

Certified	Description	Part No.	Price
MVP-50T-PT6-C	Pratt & Whitney PT-6 Turboprop Package	10-05090	---
MVP-50T-W-C	Walters Engine Turboprop Package	10-05089	---
MVP-50T-G-C	Garrett Turboprop Package	10-05091	---
MVP-50T-L-C	Lycoming Turboprop Package	10-05092	---
MVP-50T-A-C	Allison Turboprop Package	10-05093	---
MVP-50T-J85-C	General Electric J85 Jet Engine Package	10-05094	---
MVP-50T-L39-C	L39 Aircraft Package	10-05101	---
OPTIONAL INTERFACES AVAILABLE FOR PKGS LISTED ABOVE			
RTDO	Real-Time Data Out. Can be used to provide Telemetry Data for UAV's, racers and other applications.	10-03168	---
ACCESSORIES			
USB-64	USB Memory Stick, 64 MB or larger. Used to upload & download data to the MVP.	10-03186	---
CP-1-MVP	LED Intensity Control Pot. External pot used to control the display intensity.	10-03211	---
EDC-33T	Turboprop/Jet Engine Data Converter. Adding this second EDC to the MVP allows monitoring of additional temperatures, pressures, annunciators and other functions.	10-03185	---
MVP-50T Display Head	May be used to display parameters in a second location. (display only)	10-03202	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TR-1-ITT TEMPERATURE GAUGE

The TR-1-ITT (Inter Turbine Temperature) instrument is configured to interface with a Type-K thermocouple probe. The TR-1-ITT incorporates a map which is used to compensate for nonlinearities in the voltage vs temperature curves of the probe. This instrument has exceptional performance, reliability and features; a design driven by the 38+ years of experience.

The TR-1-ITT Instrument was designed as a replacement for existing 2″ ITT instruments. Depending on your current installation you may need to wire in aircraft power and ground. The instrument features a 210° analog arc, backlight and a dimmable, digital display. The instrument's faceplate will be custom built to match your aircraft's limits (red/yellow markings). The TR-1-ITT fits into a 2″ standard round hole.

Standard Package.....P/N 10-06612 ..... ---
Premium Package.....P/N 10-06613 ..... ---

TR-1-NG RPM GAUGE

The TR-1-Ng gas generator instrument was designed as a replacement for existing 2" gas generator RPM instruments. Depending on your current installation you may need to wire in aircraft power and ground. The instrument features a 210° analog arc, backlight with auto dimming and a digital display. The instrument's faceplate will be custom built to match your aircraft's limits (red/yellow markings). The TR-1-Ng fits into a 2"′ standard round hole (MS28041-1A mount) and is 4.23" long (one of the shortest cases on the market). It is FAA Certified to TSO: -C43c, -C44c, -C45b, -C47a, -49b, -C55a and comes with an FAA 8130-3 Airworthiness Approval Tag.

Standard Package.....P/N 10-06614 ..... ---
Premium Package.....P/N 10-06615 ..... ---

TR-1-NP RPM INSTRUMENT

The TR-1-Np is a 2" Prop RPM instrument for use with turboprop engines. This instrument has exceptional performance, reliability and features a design driven by 38+ years of experience. If you need to replace or overhaul an old failing gas generator instrument, buy the TSO approved TR-1-Np Prop RPM instrument which was designed with the latest digital technology.

The TR-1-Np Prop RPM instrument was designed as a replacement for existing 2" instruments. Depending on your current installation you may need to wire in aircraft power and ground. The instrument features a 210° analog arc, backlight with auto dimming and a digital display. The instrument's faceplate will be custom built to match your aircraft's limits (red/yellow markings).

Standard Package.....P/N 10-06616 ..... ---
Premium Package.....P/N 10-06617 ..... ---

TR-1-TQ ENGINE TORQUE GAUGE

The TR-1-TQ is a 2″ engine torque instrument for use with turboprop or jet engines. This instrument has excep-tional performance, reliability and features; a design driven by 38+ years of experience. If you need to replace or overhaul an old failing torque instrument, buy the FAA approved TR-1-TQ torque instrument which was designed with the latest digital technology.

The TR-1-TQ Toque Instrument was designed as a replacement for existing 2″ engine torque instruments. Depending on your current installation you may need to wire in aircraft power and ground. The instrument features a 210° analog arc, backlight and a dimmable, digital display. The instrument's faceplate will be custom built to match your aircraft's limits (red/yellow markings).

The TR-1-TQ fits into a 2″ standard round hole.

Standard without Transducer .....P/N 10-06608 ..... ---
Premium without Transducer.....P/N 10-06610 ..... ---

M-1 TURBINE OUTLET TEMPERATURE GAUGE

The M-1-TOT provides pilots with Turbine Outlet Temperature readings in Degrees C on this 2-1/4" gauge. The large LCD display is viewable in direct sunlight and is backlit for night operations. A 270 degree analog arc features bright Red, Yellow and Green LEDs to mark each operating zone for quick reference.

Specifications: • Power Requirements: 7.5 to 35 volts at .3 amps • Instrument Weight: 10 oz. • Dimensions: 2.5" x 2.5" x 3.65" Depth, 2.25" Bezel

TSOd/PMAd (no STCs).....P/N 10-03267 ..... ---

OPT-1-FV VOLT/ FREQUENCY GAUGE

AC BUS VOLTAGE & FREQUENCY, TSOd/PMAd (no STCs). The "-60" instrument is for a 60 Hz. bus and the "-400" instrument is for a 400 Hz. bus. Accurate Digital Display can be switched between Voltage and Frequency, displays in Volts and Hz. 2 1/4" Mount, 3.65" Depth, 10 Oz. Instrument.

P/N 10-03268 ..... ---

SC-5 SUPER CLOCK

May be set to display in a 12 or 24-hour format. Displays Zulu Time. A 10-year lithium battery keeps the clock running even if the aircraft battery is removed. Displays an Up Timer. This Timer will start running when the engine is started. In this manner the Timer acts as an automatic Flight Timer. The Up Timer may be started, stopped or reset. A Recurring Alarm may be set to alert you at appropriate time intervals. Example: If the alarm is set for 30 minutes, you will get an alarm at 30 minutes, 60 minutes, 90 minutes, etc. This alarm can be used to remind you to check your fuel level or switch tanks at set time intervals. Displays a Down Timer. This Timer counts down from a programmed start time. The Down Timer may be started, stopped or reset. Warning lights above the LCD display will blink if the Up or the Down Timer times out. Displays an Engine Timer. This Timer acts as a Hobbs Meter. When the engine starts, the Engine Timer will run. The Engine Timer displays total engine time in hours, tenths and hundredths of an hour..... P/N 10-01612 ..... ---

EDC-33T SMART ENGINE DATA CONVERTER

The EDC-33T (Engine Data Converter) is sometimes referred to as a Data Acquisition Unit (DAU) and has a broad range of applications. Its main purpose is to monitor the probes, transducers and sensors mounted on the engine and airframe. It then processes this data and outputs it on a serial bus. This allows a Display Unit or MFD to display the data without having to perform the intense processing required in a set timeframe. Also, annunciators and status switches can be monitored. The EDC-33 can be used on piston, turboprop or jet aircraft as well as helicopters. If an EEC or FADC system needs to be monitored, check out our BC-5 (Bus Converter).

Model EDC 33T XX: 1-Volt Channel, 1-Amp Channel, 1-Fuel Flow Channel, 9-Pressure Channels, 13-Temp Channels, 4-Resistive Fuel Level Channels or 4-Capacitive Fuel Level Channels and 2-RPM Channels.

Note: Temp, Fuel Level and Pressure channels can be used instead to monitor other functions or annunciators.....P/N 10-03185 ..... ---

AP-7H OR AP-7V LED ANNUNCIATOR PANEL

AP-7H Annunciator Panel Kit
When mounted in front of the pilot, the bright red LEDs give a quick warning of any out-of-limit condition without having to scan the instrument panel. The unit must be connected to the following E.I. Instruments: US-8A or SR-8A, FP-5 and/or FL-2, R-1, M-1, and OPT-1. A control switch will dim or turn off the warning LEDs. Simple to install (requires only 8 ea. 1/2" holes to mount). Connect to a small 3" x 2" x 1" Control Box tie wrapped to a wire bundle under the instrument panel. Size: 5.3" x .9", 10 Oz. Kit, Operates on a 12 or 24 volt system.
Includes: Annunciator Panel, Control Box and all wires and connectors.
E.I. products include all documentation and certifications.
FAA Approved
Vertical.....P/N 10-03288 ..... ---
Horizontal (Pictured).....P/N 10-03289 ..... ---

AL-1 RED CHROME ANNUNCIATOR LIGHT

The AL-1 makes an excellent indicator light for displaying boost pump on, gear status, power on, flags, etc. Also, it can be used as a remote warning light for any E.I. instrument featuring an external warning line. The AL-1 is more attractive, operates on less power and is smaller than the old fashioned indicator lights.
The AL-1 has a service life of over 1000 times that of incandescent bulbs. Mounts in a 5/16" hole. Size: .4" diameter x 1" depth. Operates on a 12 or 24-volt system. Comes with 32" leads.

Color	Part Number	Price
Red	10-04164	---
Yellow	10-04165	---
Blue	10-04166	---
Orange	10-04167	---
Green	10-04168	---

RC-1 TACH DRIVE CAP

The RC-1 is a Tach Drive cap. The thread pattern is 7/8 x 18 and fits most Tach Drive Lines.
P/N 10-01223 ..... ---

FIELD TEST DEVICES

Models	Description	Part No.	Price
FCD-FF	Outputs a variable fuel flow signal.	10-03295	---
FCD-FP	Outputs a variable fuel pressure signal (0 to 50+ PSI)	10-03296	---
FCD-OP	Outputs a variable oil pressure signal (0 to 100+ PSI)	10-03297	---
FCD-RPM	Outputs a variable RPM signal (800 to 2800 RPM)	10-03298	---
FCD-AMP	Outputs a 50mV signal. Used to test the VA-1A-XX Volt/Amp Instrument	10-03301	---
FCD-CFL	Outputs a variable capacitive fuel level signal	10-03302	---
FCD-RFL	Outputs a variable resistive (0-250 ohms) fuel level signal	10-03303	---

PROBE EXTENSION CABLES

Description	Part No.	Price
XCO-6 Extension 6 FT Circular to Overlap Connectors	10-05708	---
EI XO-6 Extension 6 FT Overlap Connectors	10-05620	---
EI Overlap Connectors OLC-1- Eliminates the need for soldering, crimps, and expensive connectors	10-05470	---

REMOTE SWITCHES

A remote switch may be used to upgrade many single-channel E.I. instruments to multi-channel EGT and/or CHT engine analyzers. This is an excellent way to insure your engine is operating properly. Specifications for all switches: Body - 1"x 1"x 1.5" depth, front panel - 2"x 1.15", STC'd / PMA'd

RS-4-1S - Upgrades any unit to read four channels of EGT or CHT, Package includes: Unit, (3) 6' cables, (3) probes. Specify probe type with order.
P/N 11-01688 ..... ---

RS-4-2S - Upgrades any two channel unit to read four channels of EGT and CHT, Package includes: Unit, (6) 6' cables, (3) EGT probes, (3) CHT probes.
P/N 11-01689 ..... ---

RS-6-1S - Upgrades any unit to read six channels of EGT or CHT, Package includes: Unit, (5) 6' cables, (5) probes. Specify probe type with order.
P/N 11-01690 ..... ---

RS-6-2S - Upgrades any 2 channel unit to read six channels of EGT and CHT, Package includes: Unit, (10) 6' cables, (5) EGT probes, (5) CHT probes.
P/N 11-01691 ..... ---

RS-8-1S - Upgrades any unit to read eight channels of EGT or CHT, Package includes: Unit, (7) 6' cables, (7) probes. Specify probe type with order.
P/N 11-01692 ..... ---

RS-12-1S - Upgrades any unit to read 12 channels of EGT or CHT, Package includes: Unit, (11) 6' cables, (11) probes. Specify probe type with order.
P/N 11-01693 ..... ---

PRIMARY REMOTE SWITCHES

Remote Switches for use w/ EI 1 or 2 channel EGT/CHT instruments. STCd, PMAd. Available for single and twin engine applications.

RS-5-1PS - Upgrades any primary TIT/CHT unit to read 4 channels of EGT or CHT, Package includes: Unit, (4) 6' cables, (4) probes. 15 oz. kit Specify probe type with order.....P/N 11-01694 ..... ---

RS-5-2PS - Upgrades any primary TIT/CHT unit to read 4 channels of EGT and CHT, Package includes: Unit, (8) 6' cables, (4) EGT probes, (4) CHT probes. 2.2 lb. kit.....P/N 11-01695 ..... ---

RS-7-1PS - Upgrades any primary TIT/CHT unit to read 6 channels of EGT or CHT, Package includes: Unit, (6) 6' cables, (6) probes. 27 oz. kit. Specify probe type with order.....P/N 11-01696 ..... ---

RS-7-2PS - Upgrades any primary TIT/CHT unit to read 6 channels of EGT and CHT, Package includes: Unit, (12) 6' cables, (6) EGT probes, (6) CHT probes. 3.2 lb. kit .....P/N 11-01697 ..... ---

PROBES

P-100 CHT Probe; screw-in type, Standard with most kits. Can be used in a pressure environment. 700°F max.
P/N 10-00808 ..... ---

P101 - CHT Probe; Military Bayonet type, 1/4 turn locking for quick removal. To be used with the A-101 adaptor. 700°F max.
P/N 10-00438 ..... ---

A101 - CHT Adaptor; 3/8" - 24, to be used with the P-101 CHT probe.
P/N 10-00374 ..... ---

P-102 - CHT Probe; Gasket type, 18mm, 700°F max .....P/N 10-01368 ..... ---

P-110 - EGT/TIT Probe; Hose clamp type, used with 13/64" hole. Standard with most kits. Weight: 1.6 oz.
P/N 10-01591 ..... ---

FAST RESPONSE P-110 - EGT/TIT Probe; Hose clamp type, used with .130" hole. Optional with most kits. Weight: 1.6 oz. Probe only....P/N 10-00376 ..... ---

P-111 - TIT Probe; 1/8" NPT with adjustable depth. (with cable). P/N 10-25235 ..... ---

P-112 - TIT Probe; 7/16"-20, with adjustable depth. (w/o cable)... P/N 10-00378 ..... ---

P-114 - TIT Probe; 1/4" NPT with adjustable depth. (w/o cable).. P/N 10-00379 ..... ---

P-104 - Universal Probe; Used to measure surface temperatures, 700°F max.
P/N 10-00380 ..... ---

P-128 - Oat Probe 1/4-28" Thread. 700 Degrees Fahrenheit Max.... P/N 10-05858 ..... ---

P-128 - Carb Temp 1/4-28" Thread. 700 Degrees Fahrenheit Max.... P/N 10-05859 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

INSIGHT ENGINE MONITORS

GRAPHIC ENGINE MONITOR 602/603/610 UPGRADES

Graphic Engine Monitor - STC'd Single Engine - Normally Aspirated 4 or 6 Cylinder. The GEM 602 is designed for use with all 4 or 6 cylinder piston engine aircraft. The instrument graphically displays up to 12 critical engine temperatures in a single instrument in an easy-to-read bar- graph format on a brilliant plasma display.

Model No.	Part No.	Description	Price
610-C262-U	10-04932	Insight 4C or 6C Upgrade GEM to G2	---
610C-363-U	10-05261	Insight 4C or 6C Upgrade GEM to G3	---
610-C-463-U	10-05267	Insight 4C or 6C Upgrade GEM to G4	---
1210C-063-U	10-04699	Insight 4C or 6C Upgrade Gemini 1200 to G4 Twin	---
1210-C-063-2-U	10-05271	Insight 4C or 6C Upgrade to G4 Twin	---

GEM PROBES

GEM 602 Wire Harness ..... P/N 10-03576 ..... ---
#2870 EGT Probe ..... P/N 2870 ..... --- ea.
#2852 CHT Spring Probe ..... P/N 2852 ..... --- ea.
#2853CHT Gasket Probe ..... P/N 10-00827 ..... --- ea.
#2855 CHT Adapter Probe* ..... P/N 2855 ..... --- ea.
#2856 CHT Probe** ..... P/N 2856 ..... --- ea.
#1200-015 OAT Cable 10ft. ..... P/N 10-05890 ..... ---
***Use with factory spring probe **Use with 3/8 x 24 threaded factory probe**

INSIGHT G3 GRAPHIC ENGINE MONITOR

The original GEM was a solitary player. The G3 instrument has two control knobs that operate combination rotary and push button switches. The top knob in general controls screen selection while the bottom knob controls items within the given screen. Each screen assigns its own functional needs to the controls that may change depending on context. A screen may also label the controls with guidance information like "Push to exit". The G3 is also designed to expand and grow with the times. Less than half of its true potential has been released at this time. The instrument can be updated to acquire new features by loading the SD card via the internet. Another great feature is why not have the G3 instrument diagnose itself? Then you don't have to disassemble the airplane or even touch the wiring. The probe diagnosis page indications are in green for normal readings and red for readings that fail the criteria set at the bottom of the screen. System Monitors: EGT, CHT, Fuel Flow, RPM, Manifold Pressure O, il Temp/Pressure, OAT, TIT, Carb Temp, HP%, Prop Balance, Clock/Calendar

Description	Part No.	Price
Insight GEM G3 4C Single Engine	10-03195	---
Insight GEM G3 4C Single Engine Dual Turbo	10-05262	---
Insight GEM G3 4C Single Engine Turbo	10-04685	---
Insight GEM G3 6C Single Engine	10-03196	---
Insight GEM G3 6C Single Engine Dual Turbo	10-05263	---
Insight GEM G3 6C Single Engine Turbo	10-04686	---

INSIGHT G1 SINGLE ENGINE COLOR MONITOR - COMPLETE SYSTEM

Single Engine - 2.25 Bezel. Protect Your Engine By: • Saving Fuel On Every Flight By Leaning Accurately And Safely • Revolutionary New Leaning Process • See Lean Peak In Order And Temperature Spread • Seeing Simultaneous EGT, CHT, TIT Bars And Temperatures • Save Time Trouble-Shooting • Continuous Probe Diagnosis That Confirms System Integrity • Extensive List Of Primary Approved Aircraft Models • SD Card Software Updates • FAA & TC Primary STC • EGT, CHT, & TIT

Also available with Carburetor Temperature and/or for G1 Field Update Kit, see Accessories.

Description	Part No.	Price
Insight G1 4C Single Engine	10-04916	---
Insight G1 4C Single Engine Turbo	10-04918	---
Insight G1 6C Single Engine Turbo	10-04919	---

INSIGHT G2 SERIES SINGLE ENGINE COLOR MONITOR - COMPLETE SYSTEM

G2 Series Single Engine Color Monitor - Complete System - 2.25 Bezel Save Fuel, Save Money, Save Your Engine! Affordable Engine Monitoring you can't afford to be without.
Top reasons to install a G2: • Best lean of peak process in the industry • The only nozzle balance analysis, the key to lean of peak • The only probe diagnostic scree • Comprehensive data log - windows files SD card • Over the web software updates - constant improvement • GEM plug compatible - easy install • Best technical support

Description	Part No.	Price
Insight G2 4C Single Engine	10-04924	---
Insight G2 4C Single Engine Turbo	10-04927	---
Insight G 6C Single Engine	10-04926	---
Insight G 6C Single Engine Turbo	10-04928	---

G4 GRAPHIC ENGINE MONITOR

The original GEM was a solitary player. The G4 will operate standalone too but will also interface with other data sources and report information to other instruments like MFD's. All of the devices the G4 connects to today didn't exist in '79. The G4 is also designed to expand and grow with the times. Less than half of its true potential has been released at this time. The instrument can be updated to acquire new features by loading the SD card via the internet. The G4 update takes only a second while the instrument remains mounted in the airplane.

Single Engine		
Description	**Part No.**	**Price**
Insight G4 4C Single Engine	10-04687	---
Insight G4 4C Single Engine Turbo	10-05264	---
Insight G4 4C Single Engine Dual Turbo	10-05265	---
Insight G4 6C Single Engine Dual Turbo	10-05266	---
Insight G4 6C Single Engine	10-04688	---
Insight G4 6C Single Engine Turbo	10-04689	---
Twin Engine		
Description	**Part No.**	**Price**
Insight G4 4C Twin Engine	10-04690	---
Insight G4 4C Twin Engine Turbo	10-04692	---
Insight G4 4C Twin Engine Dual Turbo	10-05268	---
Insight G4 6C Twin Engine	10-04691	---
Insight G4 6C Twin Engine Turbo	10-04693	---
Insight G4 6C Twin Engine Dual Turbo	10-05269	---

INSIGHT G9 GRAPHIC ENGINE MONITOR

Pilot settable lean threshold target. Colored box appears at peak. Lean boxes show temperature of how much lean or rich. Colored boxes show lean or rich. Lean boxes change at lean threshold. Fuel flow guidance for leaning. Fuel flow at each cylinder peak (GAMI SPREAD). In-flight exhaust valve analysis. EGT temperature bars with numbers. CHT temperature bars with number, yellow warning and redline. TIT temperature bar with number, yellow warning and redline.

Description	Part No.	Price
Insight 7 Cylinder G9	10-06229	---
Insight 8 Cylinder G9	10-06230	---
Insight 8 Cylinder G9	10-06231	---
Insight 8 Cylinder G9	10-06232	---
Insight 9 Cylinder G9	10-06233	---
Insight 9 Cylinder G9	10-06234	---
Insight 14 Cylinder	10-06235	---

IN

GILL SEALED BATTERIES

The "Gill" LT Sealed Valve Regulated Lead-Acid (VRLA) Batteries provide greater starting power, higher residual power, and faster starting recovery charge. These batteries are ideal for Jets, Helicopters and Turbo-Prop Aircraft demanding more power.
These batteries are also backed by a 2 year warranty-even for TURBINE AIRCRAFT.

7025-24

7243-16

7246-20

7407-28

7638-44

7641-20

LT SEALED BATTERY SPECIFICATIONS

Model	Volts	Amp Hours	30 Minute Emergency Capacity	Max Weight lbs.	Power Performance (A)						Part No.	Price
					73F (23C)		0F (-18C)		-22F (-30C)			
					IPP	IPR	IPP	IPR	IPP	IPR		
7025-20	12	20	32	22.6	1125	850	725	550	500	400	11-13274	---
7025-24	12	24	33	23.4	1100	825	725	550	500	400	11-16889	---
7035-28	12	28	45	30.0	1,599	1,088	1,100	840	850	600	11-11312	---
7035-34	12	34	55	31.4	1557	1040	1028	710	800	575	11-16890	---
7242-14	24	14	22	28.9	1,200	270	720	230	512	220	11-15282	---
7242-16	24	16	25	29.7	1,100	480	640	300	495	250	11-17223	---
7243-14	24	14	22	29.0	1,200	270	720	230	512	220	11-13534	---
7243-16	24	16	25	29.8	1,100	480	640	300	495	250	11-11210	---
7246-20	24	20	28	43.9	1,250	850	810	550	610	410	11-15485	---
7407-28	24	28	45	66.5	1,599	1,088	1,100	840	850	600	11-14426	---
7638-36	24	36	63	84.9	1,660	1,260	1,300	985	980	775	11-10756	---
7638-44	24	44	70	86	1,857	1,247	1,677	1,051	1,411	948	11-05171	---
7638-44ST	24	44	70	91.0	1,857	1,247	1,677	1,051	1,411	948	11-16277	---
7638-44T	24	44	70	88.6	1,857	1,247	1,677	1,051	1,411	948	11-14439	---
7638-48P	24	48	75	97.3	2,200	1,600	1,660	1,240	1,350	1,005	11-14093	---
7638-53	24	53	80	95.8	1,959	1,323	1,526	1,021	1,225	828	11-10759	---
7639-25	24	25	45	61.8	1,503	1,002	1,104	734	793	596	11-10758	---
7639-27	24	27	45	61.8	1,503	1,002	1,104	734	793	596	11-07462	---
7639-30LT	24	30	50	66.3	1,627	1,173	1,180	870	849	642	11-13535	---
7639-34	24	34	55	66.4	1,636	1,168	962	774	761	604	11-10757	---
7641-20	24	20	35	44.3	1,430	920	850	560	630	410	11-06245	---

FREE UPS GROUND* SHIPPING IN 48 STATES NO UPS HAZARDOUS CHARGE.
***SOME RESTRICTIONS MAY APPLY.**

SEE OUR WEBSITE FOR A COMPLETE SELECTION OF BATTERIES AND APPLICATION CHARTS AT WWW.AIRCRAFTSPRUCE.COM.

EL

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GILL DRY CHARGE BATTERIES

The “Gill” Dry Charge Lead-Acid aircraft battery line (“Gill” Series Non-Sealed), has been manufactured since 1920. They are a superior product with unparalleled product support. They offer both market opportunities and customer requirements. We encourage inquires to meet your needs for single engine, turbo-prop, experimental and vintage aircraft applications.

G-25

G-35

G-242

G-243

G-246

G-641

DRY CHARGED (FLOODED NOT SEALED) BATTERY SPECIFICATIONS

Model	Volts	Amp Hours (C1)	30 Minute Emergency Rate. (A)	Electrolyte (Qts.)	60 Second Discharge at -18°C (0°F, A)	Weight lbs	Part No.	Price
G-25	12	18	30	2	225	21.3	11-01833	---
G-35	12	23	40	3	250	27	11-01832	---
G-242	24	10	17	3	150	27	11-01657	---
G-243	24	10	17	3	150	28	11-01658	---
G-245	24	18	30	4	225	39.5	11-01660	---
G-246	24	19	32	4	250	41.5	11-01661	---
G-247	24	19	32	4	250	42.5	11-01772	---
G-6381E	24	43	70	9	445	80	11-01557	---
G-639E	24	24	40	5	345	55	11-04158	---
G-640C	24	14	25	3	180	34	11-04159	---
GE-50C	24	31	55	8	325	80	11-03808	---
GE-50E	24	31	55	8	325	80	11-03809	---
GE-51E	24	22	35	4	235	56	11-04192	---
G-88	12	65	108	8	500	78	11-04011	---
G-641	24	18	30	4	275	41.5	11-02448	---

EL

GILL BATTERY ELECTROLYTE (ACID)

Battery electrolyte (battery grade sulfuric acid) in sealed polyethylene pouch with self-contained dispenser tube, packaged in sturdy cardboard container. Specific gravity 1.285. Detailed filling & disposal instructions on container.

2 Quarts ..... P/N 11-00300 ..... ---

3 Quarts ..... P/N 11-00305 ..... ---

Free UPS Ground* Shipping in 48 States No UPS Hazardous Charge.
***Some restrictions may apply.**

SEE OUR WEBSITE FOR A COMPLETE SELECTION OF BATTERIES AND APPLICATION CHARTS AT WWW.AIRCRAFTSPRUCE.COM.

CONCORDE BATTERIES

Concorde Battery Corporation has hand crafted safe and reliable batteries in West Covina, California for over 40 years. A dedicated Research & Development Department continuously improves and refines the Recombinant Gas (RG®) product line resulting in industry leading performance and reliability in sealed Valve Regulated Lead Acid (VRLA) batteries.Concorde batteries are the choice of OEM, DOM, owners and pilots due to unmatched performance, quality, safety and customer support.
Concorde Batteries are certified for installation, and as Original Equipment, on more aircraft than any other lead acid battery.
NOTE - The STCs for some aircraft may be required at an additional cost please call 877-4-SPRUCE (777823) if applicable to your aircraft.
Concorde batteries are designed with large positive and negative plates, aircraft quality terminals (brass terminal bolts with conical silicon bronze lock washers), and robust over the partition intercell connections. These unique features contribute to an increase in capacity, greater sustained starting power in extreme heat and at sub-zero temperatures and increased longevity. RG® Series batteries feature fully aerobatic sealed construction; no spillable electrolyte or flammable gas emissions.

CONCORDE GENERAL AVIATION SEALED LEAD ACID BATTERIES

RG-25

RG-25XC

RG-35A

RG-35AXC

RG-24-11

RG-24-11M

RG-380E/44

"XC" in the model number indicates extra cranking power. "M" in the model number indicates manifold venting.

Model No.	Battery Type	Connect Type	Amp Hour	Volt	Part No.	Price
RG-25	Sealed Lead Acid	A	22	12	**11-03879**	---
RG-25XC	Sealed Extra Crank	A	24	12	**11-03880**	---
RG-35A	Sealed Lead Acid	A	29	12	**11-03881**	---
RG-35AXC	Sealed Extra Crank	A	33	12	**11-03882**	---
RG-2411	Sealed Lead Acid	A	11	24	**11-03876**	---
RG-2411 M	Sealed Lead Acid	A	11	24	**11-03877**	---
RG24-9	Sealed Lead Acid	M	9	24	**11-11608**	---
RG24-10	Sealed Lead Acid	M	9	24	**11-11609**	---

Model No.	Battery Type	Connect Type	Amp Hour	Volt	Part No.	Price
RG-12LSA	Sealed Lead Acid	A	11.00	12	11-09455	---
RG24-15	Sealed Lead Acid	A	13.60	24	11-03878	---
RG24-15M	Sealed Lead Acid	A	13.60	24	11-04951	---
RG24-16	Sealed Lead Acid	A	13.60	24	11-05112	---
RG24-20	Sealed Lead Acid	A	19	24	11-00174	---
RG-380E/44*	Sealed Lead Acid	E	42	24	11-03883	---
RG24-12	Sealed Lead Acid	M	11	24	11-11612	---

CONCORDE CORPORATE BATTERIES

Model	Capacity	Connector Type	Weight	Part No.	Price
RG-28-7	9	GG	32	11-11613	---
RG-42	17	E	44	11-11614	---
RG-45	12	U	35	11-11616	---
RG-46	12	E	35	11-11617	---
RG-47	17	U	44	11-11618	---
RG-49	17	E	44	11-11619	---
RG-76	44	E	102	11-11621	---
RG-91	22	E	57	11-11643	---
RG-120	0.7	W	5	11-11645	---
RG-121-1	2	L	8	11-11647	---
RG-121-2	2	L	8	11-11650	---
RG-121-3	3.3	L	12	11-11654	---
RG-121-4	3.3	L	12	11-11655	---
RG-122-1	2	L	8	11-11656	---
RG-122-2	2	L	8	11-11657	---
RG-122-3	3.3	L	12	11-11658	---
RG-122-4	3.3	L	12	11-11659	---
RG-123	11	F	28	11-11660	---
RG-123-1	11	F	28	11-11661	---
RG-124	17	N	43	11-11662	---
RG-124-1	17	N	43	11-11664	---
RG-125	3.5	J	14	11-11666	---
RG-126	3.5	K	14	11-11668	---
RG-128-1	3.8	P	16	11-11673	---
RG-128-2	3.8	P	16	11-11676	---
RG-128-3	3.8	P	16	11-11678	---
RG-129	3.8	B	16	11-11681	---
RG-130-1	11	F	28	11-11682	---
RG-130-2	11	F	28	11-11687	---
RG-132	6	Y	16	11-10853	---
RG-135	2	V	8	11-11689	---
RG-140	7	E	16	11-11694	---
RG-145-1	17	E	44	11-11695	---
RG-145-2	17	E,L	44	11-11696	---
RG-206	17	E	43	11-11388	---
RG-209	22	E	52	11-11701	---

Model	Capacity	Connector Type	Weight	Part No.	Price
RG-220	21	-	44	11-19212	---
RG-222	17	E	43	11-11385	---
RG-223	17	E	44	11-11702	---
RG-224	24	E	52	11-11383	---
RG-292-102	17	E	43.5	11-17172	---
RG-292-103A	24	E	53	11-17173	---
RG-235	44	E	88	11-13428	---
RG-300	11	X	11	11-11703	---
RG-325	17	M	53	11-11704	---
RG-330	17	M	63	11-11706	---
RG-332-1	38	BB,II	90	11-13429	---
RG-332-2	38	BB,II	90	11-13430	---
RG-343	38	E	29	11-11707	---
RG-350	38	U	42	11-11386	---
RG-355	38	U	42	11-11387	---
RG-380E/40B	38	E	85	11-11708	---
RG-380E/40D	38	E	86	11-13431	---
RG-380E/40K	38	E	86	11-11709	---
RG-380E/40KH	38	E	84	11-11711	---
RG-380E/40KS	38	E	88	11-11712	---
RG-380E/40KSH	38	E	88	11-11713	---
RG-380E/40L	38	E	86	11-11456	---
RG-380E/40LH	38	E	86	11-11714	---
RG-380E/40LS	38	E	88	11-11716	---
RG-380E/40LSH	38	E	88	11-11718	---
RG-380E/44	42	E	90	11-03883	---
RG-380E/44K	42	E	92	11-11623	---
RG-380E/44KH	42	E	92	11-11624	---
RG-380E/44KS	42	E	93	11-11625	---
RG-380E/44KSH	42	E	93	11-11626	---
RG-380E/44L	42	E	92	11-02949	---
RG-380E/44LH	42	E	92	11-11627	---
RG-380E/44LS	42	E	93	11-11628	---
RG-380E/44LSH	42	E	93	11-11629	---
RG-380E/46	46	E	90	11-11630	---
RG-380E/46K	46	E	92	11-11631	---
RG-380E/53GH	53	–	97.4	11-19209	---

EL

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CONCORDE BATTERIES

CONCORDE CORPORATE BATTERIES

Model	Capacity	Connector Type	Weight	Part No.	Price
RG-380E/46KH	46	E	92	11-11632	---
RG-380E/46KS	46	E	93	11-11634	---
RG-380E/46KSH	46	E	93	11-11635	---
RG-380E/46L	46	E	92	11-11636	---
RG-380E/46LH	46	E	92	11-11637	---
RG-380E/46LS	46	E	93	11-11638	---
RG-380E/46LSH	46	E	93	11-11639	---
RG-380E/53K	53	E	94	11-11640	---
RG-380E/53KH	53	E	94	11-11641	---
RG-380E/53KSH	53	E	95	11-11646	---
RG-380E/53L	53	E	94	11-11649	---
RG-380E/53L	STC Kit Only			11-17551	---
RG-380E/53L	Sovereign STC Kit with Batteries, Temp Sensors, STC			11-16841	---
ST04366AT	Sovereign STC Only - Buy 2 RG-380E/53L Separately			11-16834	---
RG-380E/53LH	53	E	94	11-11651	---
RG-380E/53LS	53	E	95	11-11652	---
RG-380E/53LSH	53	E	95	11-11653	---
RG-380E/60B	48	E	100	11-11663	---
RG-380E/60F	48	E	100	11-11665	---
RG-380E/60K	48	E	100	11-11667	---
RG-380E/60KH	48	E	100	11-11672	---
RG-380E/60KS	48	E	102	11-11674	---
RG-380E/60KSH	48	E	102	11-11677	---
RG-380E/60L	48	E	100	11-10837	---
RG-380E/60L	STC Kit Only			11-17551	---
RG-380E/60L	Sovereign STC Kit with 2 Batteries, Temp Sensors, STC			11-16839	---
ST04366AT	Sovereign STC Only - Buy 2 RG-380E/60L Separately			11-16834	---
RG-380E/60L	With STC Kit for Cessna Sovereign			11-16839	---
RG-380E/60LH	48	E	100	11-11679	---

Model	Capacity	Connector Type	Weight	Part No.	Price
RG-380E/60LS	48	E	102	11-11684	---
RG-380E/60LSH	48	E	102	11-11686	---
RG-385	13	E	36	11-11688	---
RG-390E	28	E	64	11-11384	---
RG-390E/KH	28	E	64	11-11717	---
RG-390E/KSH	28	E	66	11-11719	---
RG-390E/L	28	E	64	11-11721	---
RG-390E/LH	28	E	64	11-11723	---
RG-390E/LS	28	E	66	11-11725	---
RG-390E/LSH	28	E	66	11-11728	---
RG-390ES	28	E	64	11-11730	---
RG-390E/25	25	E	55	11-11732	---
RG-390E/25L	25	E	57	11-11733	---
RG-390E/25LS	25	E	59	11-11736	---
RG-390E/25S	25	E	55	11-11738	---
RG-390E/30	30	E	63	11-15456	---
RG-400E/13	13	E	38	11-11741	---
RG-407	27	E	64	11-10836	---
RG-41/53	53	E	96	11-18415	---
RG-41/53 with STC	53	E	96	11-18427	---
RG-412-1	15	E	50	11-11740	---
RG-412-2	15	G & E	50	11-11739	---
RG-418-1	24	E	66	11-13432	---
RG-418-2	24	G & E	666	11-13433	---
RG-427	34	E	81	11-12015	---
RG-441	44	E	90	11-11737	---
RG-442	44	E	90	11-11735	---
RG-443	11	E	29	11-02948	---
RG-445E	18	E	45	11-11729	---
RG-500	17	E	45	11-04738	---
RG-600-1	17	E	45	11-11726	---
RG-600-2	17	E	45	11-11724	---
RG-616	6	HH	18	11-13434	---
RG-641	17	E	43	11-12016	---

CONCORDE ARINC SERIES EMERGENCY BATTERIES

Model	Capacity	Connector Type	Weight	Part No.	Price
RG-131	12	H	36	11-13436	---
RG-150-1	3.5	Z	18	11-13437	---
MB-150-1	3.5	N/A	16	11-13439	---
RG-150-2	3.5	Z	18	11-13440	---
MB-150-2	3.5	N/A	16	11-13441	---
BS-150-A	3.5	Z	14	11-13442	---

Model	Capacity	Connector Type	Weight	Part No.	Price
RG-150-1-[y]	3.5	Z	18	11-13443	---
MB24-3.5-1	3.5	N/A	14	11-13444	---
RG-150-2-[y]	3.5	Z	18	11-13445	---
MB24-3.5-2	3.5	N/A	14	11-13446	---
BS-150-C	N/A	Z	14	11-13447	---

CONCORDE 4002 BATTERY QUICK DISCONNECT

ELCON type connector
In accordance with MS 3349-2. This versatile 2 wire connector is capable of mounting with wires coming in from the bottom or wires coming in from the top.....P/N 11-16302 .....---

EL

TRUE BLUE POWER BATTERIES

TRUE BLUE POWER LITHIUM-ION BATTERY 28 WATT TS60 BAYONET

Designed to supply DC power for aircraft emergency lighting when aircraft power failure occurs. During normal aircraft operation, the TS60 EBPS will utilize the aircraft's power to recharge or maintain existing charge at full capacity. Utilizes state-of-the-art Nanophosphate® lithium-ion battery cell technology which provides improvements in performance, safety, life and weight when compared to traditional or competing aircraft battery systems. **Features**: • Provides a constant 6.6 VDC power for emergency lighting systems. • Utilizes advanced NanoPhosphate® lithium-ion cell chemistry • Maintains full charge by recharging during normal flight operations • Recharges 4x faster than competing units • Two-year maintenance schedule • 8 year (average) life expectancy • Two-year limited warranty Weight: 3.8 lbs (1.72 kg) .....P/N 10-07531 ..... ---

TRUE BLUE POWER LITHIUM-ION BATTERY 43 WATT TS60 THREADED

Designed to supply DC power for aircraft emergency lighting when aircraft power failure occurs. Utilizes the aircraft's power to recharge or maintain existing charge at full capacity. The TS60 is a sophisticated power system that utilizes state-of-the-art Nanophosphate® lithium-ion battery cell technology which provides improvements in performance, safety, life and weight when compared to traditional or competing aircraft battery systems. Weight: 4.0 lbs (1.81 kg)

Threaded .....P/N 10-07530 ..... ---
Bayonet .....P/N 10-07529 ..... ---

TRUE BLUE POWER LITHIUM-ION BATTERY 6430017

Ideal for the piston, turbine, and emergency power market, the TB17 Advanced Lithium-ion Battery starts the aircraft's engine quickly and features superior energy density — NanoPhosphate® lithium-ion cells offer 3x the energy per kilogram, resulting in a battery that is 45% lighter than lead-acid or nickel-cadmium alternatives.

Features: • 17 amp-hour battery nominal at 23°C/73.4°F • Weighs 16 lbs. — 45% lighter than lead-acid or nickel-cadmium alternatives • Advanced NanoPhosphate® lithium-ion cell chemistry — 3x the energy per kilogram when compared to lead-acid and nickel-cadmium cells • 7 engine starts in 7 minutes • 30 minutes (at 34 amps) for complete recharge when the battery is fully discharged • Automatic internal heater • Superior performance at extreme temperatures (-40°C/-40°F to 70°C/158°F) • Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting protection • Communicates battery status to the cockpit • Higher voltage during engine start — Less wear, less maintenance and increased useful life • 2-year maintenance interval — 50 – 90% savings on maintenance costs • 8 years (average) useful life • Designed and built in Wichita, Kansas, USA • Two-year limited warranty • FAA TSO certified

P/N 10-07532 ..... ---
Quick Disconnect.....P/N 10-07535 ..... ---
On/Off Feature.....P/N 10-07537 ..... ---
On/Off Feature & Quick Disconnect .....P/N 10-07536 ..... ---

TRUE BLUE POWER TB14 LITHIUM-ION BATTERY

Features: • Capacity: 13 amp-hour nominal at 23°C/73.4°F • Charge Voltage: 28.8 VDC nominal • Output Voltage: 26.4 VDC nominal • Output Current: 100 A continuous, 850 A max • Technology: Advanced iron phosphate lithium-ion cell chemistry • Protection: Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting • Energy Density: 76 Wh/kg 121 Wh/liter • Operating Temperature: -20°C to +70°C (-4°F to +158°F) • Weight: 10 lbs. (4.54 kg) • Dimensions: 6.3" L x 5.6" W x 4.9" H • Configuration: 2P8S; 2 parallel cells x 8 series cells Maintenance: On-condition • Battery Life Expectancy: 8 years (average) Case: Anodized aluminum, blue • Designed and built in Wichita, Kansas, USA • FAA TSO Certified • Two-year limited warranty

Standard .....P/N 10-07657 ..... ---
Steel Case .....P/N 10-07658 ..... ---

TRUE BLUE POWER GEN5 TB20 LITHIUM-ION BATTERY

• 20 amp-hour nominal at 23°C/73°F • Weighs 19.5 lbs. — up to 60% less than lead-acid and NiCad solutions • Advanced NanoPhosphate® lithium-ion cell chemistry • Higher voltage during engine start — Less wear, less maintenance and increased useful life • Superior high-temperature and cold-weather performance from -40°C to +70°C (-40°F to +158°F) • More than 1 amp-hour per pound • Automatic internal heater • Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting protection • Built-in Test (BIT) Indicator communicates real-time state-of-charge and state-of-health • On-condition maintenance • Designed and built in Wichita, Kansas, USA • FAA TSO Certified • Two-year limited warranty • Weight: 19.5 lbs. (8.85 kg).....P/N 10-07541 ..... ---

TRUE BLUE POWER GEN5 TB30 LITHIUM-ION BATTERY

26.4 VDC, 30 Ah, Lithium-ion, TSO **Features**: • 30 amp-hour nominal at 23°C/73°F • Weighs 27.7 lbs.• Advanced NanoPhosphate® lithium-ion cell chemistry • Higher voltage during engine start • -40°C to +70°C (-40°F to +158°F) • More than 1 amp-hour per pound • Automatic internal heater • Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting protection • Built-in Test (BIT) Indicator • On-condition maintenance • Designed and built in Wichita, Kansas, USA • FAA TSO Certified • Two-year limited warranty.

P/N 10-07539 ..... ---

TRUE BLUE POWER GEN5 TB30 SERIAL DISCHARGE LITHIUM-ION BATTERY

26.4 VDC, 30 Ah, Serial discharge, Lithium-ion, TSO. **Features**: • 30 amp-hour nominal at 23°C/73°F • Weighs 27.7 lbs. • Advanced NanoPhosphate® lithium-ion cell chemistry • Higher voltage during engine start • -40°C to +70°C (-40°F to +158°F) • More than 1 amp-hour per pound • Automatic internal heater • Serial discharge • Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting protection • Built-in Test (BIT) Indicator • On-condition maintenance • Designed and built in Wichita, Kansas, USA • FAA TSO Certified • Two-year limited warranty • Weight: 27.7 lbs. (12.56 kg)

P/N 10-07538 ..... ---

TRUE BLUE POWER GEN5 TB40 LITHIUM-ION BATTERY

• 40 amp-hour nominal at 23°C/73°F • Weighs 36.6 lbs. — up to 60% less than lead-acid and NiCad solutions • Advanced NanoPhosphate® lithium-ion cell chemistry • Higher voltage during engine start — Less wear, less maintenance and increased useful life • Superior high-temperature and cold-weather performance from -40°C to +70°C (-40°F to +158°F) • More than 1 amp-hour per pound • Automatic internal heater • Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting protection • Built-in Test (BIT) Indicator communicates real-time state-of-charge and state-of-health • On-condition maintenance • Designed and built in Wichita, Kansas, USA • FAA TSO Certified • Two-year limited warranty • Weight: 36.6 lbs. (16.60 kg) P/N 10-07544 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TRUE BLUE POWER GEN5 TB40 SERIAL DISCHARGE LITHIUM-ION BATTERY

• 40 amp-hour nominal at 23°C/73°F • Weighs 36.6 lbs. — up to 60% less than lead-acid and NiCad solutions • Advanced NanoPhosphate® lithium-ion cell chemistry • Higher voltage during engine start — Less wear, less maintenance and increased useful life • Superior high-temperature and cold-weather performance from -40°C to +70°C (-40°F to +158°F) • More than 1 amp-hour per pound • Automatic internal heater • Serial discharge • Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting protection • Built-in Test (BIT) Indicator communicates real-time state-of-charge and state-of-health • On-condition maintenance • Designed and built in Wichita, Kansas, USA • FAA TSO Certified • Two-year limited warranty • Weight: 36.6 lbs. (16.60 kg).....P/N 10-07542 ..... ---

TRUE BLUE POWER TB44 LITHIUM-ION BATTERY

True Blue Power TB44 Lithium-Ion Battery 6430044-2

Features: • 46 amp-hour battery nominal at 23°C/73.4°F • Weighs 51.7 lbs. • Advanced Nanophosphate® lithium-ion cell chemistry • 7 engine starts in 7 minutes • 15 minutes for complete recharge when the battery is fully discharged on a typical aircraft • -40°C/-40°F to +70°C/+158°F • Automatic internal heater • Overcharge, over-discharge, over-current, short circuit, over-temperature and under-temperature protection • Communicates ARINC 429 data to the cockpit • Higher voltage during engine start • 2-year maintenance interval • 8 years (average) useful life • Designed and built in Wichita, Kansas, USA • FAA TSO Certified • 2-year limited warranty

With Handles .....P/N 10-07527 ..... ---
Without Handles .....P/N 10-07528 ..... ---

MID-CONTINENT TRUE BLUE GEN 5 TB50 LITHIUM-ION AIRCRAFT BATTERY

The new Gen5 TB50 Lithium-ion Aircraft Battery is a same-size replacement for the industry standard 44 amp-hour battery, while offering more power, less weight and zero maintenance. The TSO-certified TB50 from True Blue Power lasts 8 years and features an automatic, built-in heater. This allows your aircraft to outperform all others in extreme temperatures, from -40°C to +70°C. P/N 10-07767.....---

TRUE BLUE POWER GEN5 TB60 60 AMP HOUR BATTERY

Features: • 60 amp-hour nominal at 23°C/73°F • Weighs 52.9 lbs. — up to 60% less than lead-acid and NiCad solutions • Advanced NanoPhosphate® lithium-ion cell chemistry • Higher voltage during engine start — Less wear, less maintenance and increased useful life • Superior high-temperature and cold-weather performance from -40°C to +70°C (-40°F to +158°F) • More than 1 amp-hour per pound • Automatic internal heater • Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting protection • Built-in Test (BIT) Indicator communicates real-time state-of-charge and state-of-health • On-condition maintenance • Designed and built in Wichita, Kansas, USA • FAA TSO Certified • Two-year limited warranty

Specifications: • Capacity: 60 amp-hour nominal (at 23°C/73°F) • Charge Voltage: 28 VDC nominal • Output Voltage: 26.4 VDC nominal • Output Current: 425A continuous (1,500A max) • Weight: 52.9 lbs. (23.99 kg)

P/N 10-07540 ..... ---

TRUE BLUE POWER EMERGENCY BATTERY POWER SUPPLY TS6

Designed for a 28V electrical bus, the TS6 Emergency Battery Power Supply (EBPS) provides DC power to aircraft electronics when main aircraft power fails, supporting one instrument at a time. The unit can be fully recharged or maintain existing full charge, via the aircraft's primary power bus. Additional functions include analog state-of-charge, 80% capacity dispatch test, and discharge shutdown. The TS6 is compatible with Mid-Continent Instruments and Avionics 2-inch digital instruments, the Flex® Custom Function Display, and avionics or components that require 28 VDC input. **Features:** • Utilizes Nickel Metal Hydride (NiMH) battery technology • Unit can be fully recharged, or will maintain existing full charge, via aircraft's primary power bus • Rugged metal chassis and DB9-style connector for electrical interface • Recommended 2-year maintenance cycle (full charge and discharge capacity check) • Designed and built in Wichita, Kansas USA • Two-year limited warranty • FAA TSO Certified **Specifications:** • Capacity: 6 Watt-hour • Input Voltage: 24.5–32 VDC • Output Power: 24 VDC nominal 0.25 amps max • Weight: 0.5 lbs • Dimensions: 2.75"L x 3.00"W x 0.94"H • Protection: Short circuit, over temperature, under-voltage, and over-voltage • Mating Connector: DB9-style (MCIA Kit P/N 8017287) • Certification: Certified to FAA TSO-C173a Qualified to DO-293A and RTCA DO-160G.....P/N 10-07768 ..... ---

TRUE BLUE POWER EMERGENCY BATTERY POWER SUPPLY TS28

Designed for a 28V electrical bus, the TS28 Emergency Battery Power Supply (EBPS) provides DC power for aircraft loads, such as emergency lighting and other critical equipment when main aircraft power fails. The unit can be fully recharged or maintain existing full charge, via the aircraft's primary power bus. The TS28 EBPS is designed to provide power to emergency lighting in Citation 550, 560, 680, 680A and 700 aircraft models, and is a direct replacement for Radiant Battery Power Supplies CBS28-1. The TS28 delivers superior quality, longer lifespan, and cell-swapping capabilities that reduce cost for these aircraft operators.

Feature: • Provides a constant 24 VDC power for emergency lighting systems in the event of electrical system failure • Utilizes Nickel Metal Hydride (NiMH) battery technology • Rugged metal chassis with a 4-pin Mil-Spec circular-style connector for electrical interface • Easily removable, rechargeable battery pack is field-replaceable to shorten maintenance timelines and extend product life • Recommended 2-year maintenance cycle (full charge and discharge capacity check) • Designed and built in Wichita, Kansas USA • Two-year limited warranty • FAA TSO Certified

Specifications: • Capacity: 28 Watt-hour • Input Voltage: 26.5–32 VDC • Output Power: 24 VDC nominal 3 amps max • Weight: 1.7 lbs • Dimensions: 5.5"L x 4.4"W x 1.5"H (without connector) • Protection: Short circuit, over temperature, under-voltage, over-voltage, and EMI filtering • Direct Replacement: Radiant CBS28-1 • Mating Connector:4-pin Mil-Spec circular-style (MCIA PN 9015514-1) • Certification: Certified to FAA TSO-C173a Qualified to DO-293A and RTCA DO-160G

P/N 10-07769 ..... ---

TRUE BLUE POWER TW15 WIRELESS CHARGER 15W 6430015-21

Charge personal electronic devices, including smartphones, earbuds, and more with True Blue Power's second-generation wireless chargers. The quick-charging TWC15 Wireless Charger can be mounted in a variety of locations throughout the aircraft, is quick charging, and Qi/Qi2 compliant. .....P/N 10-07770 ..... ---

TRUE BLUE POWER TW15 WIRELESS CHARGER 15W - MAGSAFE COMPATIBLE

Deliver up to 15 watts of power to smartphones, wireless headphones, and other personal electronics with the TWC15 Series Wireless Chargers. The quick-charging 6430015-22 is MagSafe® compatible, Qi/Qi2 compliant, and can be mounted in a variety of locations throughout the aircraft.. ....P/N 10-07771 ..... ---

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TRUE BLUE POWER CHARGER MX TT28-2

Charge and maintain lithium-ion and lead-acid aircraft batteries with the intelligent and compact TT28-2 True Blue Charger Mx. Charge and maintain lithium-ion and lead-acid aircraft batteries with the intelligent and compact TT28-2 True Blue Charger Mx. The intelligent True Blue Charger Mx extends battery life and provides simple, safe and automatic charging for lithium-ion and sealed lead-acid aircraft batteries. The intelligent True Blue Charger Mx extends battery life and provides simple, safe and automatic charging for lithium-ion and sealed lead-acid aircraft batteries. The direct-connect, 2.5-amp charger maintains batteries of any capacity, from zero to full state-of-charge (SOC), while continuously displaying battery voltage. The highly-efficient True Blue Charger Mx can be used for standby maintenance without trickle charging. .....P/N 10-07287 ..... ---

TRUE BLUE POWER CHARGER PRO TT28-12

Charge, discharge and evaluate True Blue Power lithium-ion aircraft batteries with the intelligent and easy-to-use TT28-12 True Blue Charger PRO. The ONLY battery charger to automatically discharge lithium-ion aircraft batteries to 30% state-of-charge, as required for air shipment. The True Blue Charger PRO is pre-loaded with all charge and discharge parameters for True Blue Power lithium-ion batteries, allowing maintenance personnel to safely and efficiently top charge batteries and perform scheduled capacity checks. **Features**: Specifically engineered to charge, discharge and test True Blue Power lithium-ion aircraft batteries: • TB17 (17 amp-hour) - TB40 (40 amp-hour) • TB20 (20 amp-hour) - TB44 (46 amp-hour) • TB30 (30 amp-hour) - TB60 (60 amp-hour)

P/N 10-07286 ..... ---

P/N 11-03153

POWERSONIC BATTERIES

Power Sonic sealed maintenance-free batteries allow safe, trouble-free operation in any position. You never need to add electrolyte; gases generated during over charge are recombined in a unique “oxygen cycle”. Under normal operating conditions, 4 or 5 years of dependable service can be expected in standby applications, or between 200 and 1000 charge/discharge cycles, depending on depth of discharge. Temp. range: -76° to +140°F.

3-AMP Battery - Model: Powersonic PS-1230, PPS SKU: 35L116S1 Shipping Weight: 3 lbs, Dimensions: 5.23”L x 2.64”W x 2.36”H, Voltage: 12 Volts, Capacity: 3 Amp Hour(s), Chemistry: Lead.

P/N 11-03153 ..... ---

18-AMP Battery - Model: Powersonic PS-12180NB, PPS SKU: 35L105S3, Shipping Weight: 14 lbs, Dimensions: 7.13”L x 2.99”W x 6.57”H, Voltage: 12 Volts, Capacity: 18 Amp Hour(s), Chemistry: Lead.

P/N 11-03154 ..... ---

26-AMP Battery - Model: Powersonic PS-12260NB, PPS SKU: 35L107S1, Shipping Weight: 18 lbs, Dimensions: 6.56”L x 6.97”W x 4.92”H, Voltage: 12 Volts, Capacity: 26 Amp Hour(s), Chemistry: Lead

P/N 11-03155 .....---

AEROVOLTZ BALANCE CHARGER KIT

The only charger on the market designed specifically to work with the Aerovoltz battery. The primary advantage is the balance charging function. The Balance mode balances the voltage of each cell or cell pack while charging. By balance charging your you insure that the battery is operating at its maximum power. Periodic balance charging can also double the expected life of your battery. This charger is not required to operate your Battery, but it is highly recommended.

120V .....P/N 11-13081 ..... ---

ANTIGRAVITY 16 CELL SMALL CASE BATTERY

480 Cranking Amps. It is the smallest 16-Cell lithium battery made at only 4.5” Length x 3.25” Depth and 5.25” height (to the top of the terminals). P/N 11-12104 .....

ODYSSEY DRYCELL BATTERIES

11-01651 11-02233 11-01945

Odyssey batteries, with an eight year design life saves you time and money because you do not have to replace your battery as often. It is also the only battery that is capable of delivering a large number of deep cycles up to 400 when fully discharged or up to 500 when discharged to 80%. Plus, the battery is specially designed for high vibration applications.

Unlike conventional batteries that need to be recharged every six to twelve weeks, the Odyssey battery will maintain up to 50% state of charge after 2 yrs if stored at room temperature (77ºF). At temperatures lower than 77°F, storage times will be even longer. The cranking power of Odyssey batteries is double to triple that of equally sized conventional batteries, even when the temperature is as low as -40ºF. Odyssey batteries may be shipped worry free by UPS/Federal Express or air.

2 Year Warranty

Note: MJ=Metal Jacket. See website for additional Specs.

Part No.	Model	Dimensions	Weight	Price
11-08080	PC-625	6.7” x, 3.90” x 6.89”.	13.2	---
11-08081	PC-545	7/8” x 3-3/16” x 5-1/8”	11.7	---
11-08082	PC-545MJ	7.0” x 3-3/8” x 5-1/8”	12.6	---
11-02233	PC-680	7.15” x 3.00” x 6.65”	15.4 Lbs.	---
11-05173	PC-925	6-15/32” X 6-7/8” X 4-7/8”	24 lbs	---
11-17113	PC-925L	6.64” x 7.05” x 5.04”	28 lbs	---
11-01651	PC-925MJ	6-9/16”x 6-7/8”x 5-11/16”	24 Lbs.	---
11-01945	SBSJ16	7-3/16”x 3-1/16”x 6-9/16”	15 Lbs.	---

METAL JACKET (TRAY)

For Odyssey 680Amp battery

P/N 11-02234 ..... ---

HOLD DOWN BRACKET FOR ODYSSEY 680AMP BATTERY

This hold down bracket for the Odyssey PC 680 battery can be easily mounted in any orientation.**Note**: this is not made of steel, and production methods may leave variance in alignment.

Color: Black.....P/N 11-01853 ..... ---

BATTERY TERMINAL TOOL

This unique tool is designed to provide positive tightening of battery terminals on all popular brands of lead/acid aircraft batteries without overtorquing and without the danger of an electrical short. The tool is made from steel for rugged service and is fully insulated with a rubber hand grip for protection against electrical shorts.

P/N 12-16200 ..... ---

BATTERY CORROSION GUARD

Battery Corrosion Guard forms a thin protective coating that will neutralize battery acid on all treated areas. It is an excellent way to clean the battery, hold down straps, and all metal parts you want to protect including cables, clamps, box, and posts. Excellent for aluminum battery boxes. Widely used in the aircraft, truck, and boat industries.

3 oz. can.....P/N 11-00310 ..... ---

8 oz can.....P/N 11-00320 ..... ---

11 oz. can.....P/N 11-09615 ..... ---

PULSETECH POWERPULSE

PowerPulse is not a charger. It's a performance device designed to help batteries charge faster and provide maximum performance and power. Used extensively by the consumers and the U.S. Military worldwide for almost ten years. The PowerPulse system can also be used together with an existing charging system. In fact, it will work even faster and stronger. This means batteries can be both charged and desulfated at the same time.

12V .....P/N 11-07464 ..... ---

ANTIGRAVITY 20 CELL OEM YTX12-20 BATTERY

600 Cranking Amp and extremely compact size 5.8” Length x 3.4” Depth and 5.12” height (to the top of battery) .....P/N 11-12105 ..... ---

EL

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

ALUMINUM BATTERY RACKS & BOXES

RACK

BOX

These top quality battery racks and battery boxes are constructed from 5052 aluminum and are heli-arc welded. A corrosion resistant epoxy powder coating is applied using a electrostatic process and oven baked for a long lasting finish. Complete hold down hardware kits are provided with all racks and boxes , and mount flange are pre-drilled for mounting ease using 3/16" diameter bolts. Use battery racks when mounting in a ventilated area. Use battery boxes when mounting battery in a confined area. where enclosed battery protection is required. Battery boxes include a 1/4" tube for venting and drainage. Specify make and model of battery and horizontal or vertical mount when ordering.

Battery Racks			
Part No.	**Model**	**Dimensions**	**Price**
11-00105 Horizontal	HR-25	8"H x 5-3/16"W x 7-7/8"L	---
11-00110 Vertical	VR-25	8"H x 5-3/16"W x 7 7/8"L	---
11-00115 Horizontal	HR-35	8"H x 5-3/16"W x 9-7/8"L	---
11-00120 Vertical	VR-35	8"H x 5-3/16"W x 9-7/8"L	---

Battery Boxes			
Part No.	**Model**	**Dimensions**	**Price**
11-00125 Side load	HB-25	8"H x 5-3/16"W x 7-7/8"L	---
11-00130 Top Load	VB-25	8"H x 5-3/16"W x 7-7/8"L	---
11-00135 Top Load	HB-35	8"H x 5-3/16"W x 9-7/8"L	---

CESSNA FIREWALL MOUNTED BATTERY BOX

Firewall battery box that allows the SBS-J16 battery to be used for Cessna Models 170, 170A, 170B, 180 thru 180K, 185 thru 185E, A185E, A185F STC Approved: SA02333AK-D.
Note: Does not include battery.
P/N 05-04766 ..... ---

GEL CELL BATTERIES

• Maintenance-free operation • Excellent shelf life • Long cycle life • Can be mounted on its side • Delivered fully charged and ready for use • No corrosive gas generation • 300 Starting AMPS • Warranty 1 year or 100 hours. • Quality construction provides superior resistance to shock and vibration • DOT AND IATA approved for shipment by air as dry cells
Note: for experimental aircraft only.
P/N 11-03156 ..... ---

FIBERGLASS BATTERY BOX

Available as standard fiberglass battery box or as gel coated version. Gel coated battery box is same dimensions but with gray gel coating. Sturdy, lightweight, corrosion-resistant. Accommodates both 25 amp and 35 amp batteries. With hold-down tabs and drain outlet.
Note: for experimental aircraft only.
Coated.....P/N 05-15354 ..... ---
Uncoated.....P/N 05-15353 ..... ---

BOGERT BATTERY BOXES

Many battery boxes in Piper and Cessna aircraft are 30, 40 or 50 years old and battery acid, vibration as well as time have taken their toll. Acid leaking into the belly of your airplane can severally damage the structure where you can't see it, between the laps of aluminum and the rivets. STC/PMA FAA approved for most Piper Aircraft. Protects your investment. Replaceable vent fittings. Eliminates acid leaks in the aircraft. Improves starting performance. Eliminates extra connection on outside of the battery box Positive battery box venting. Includes lid.

SEE OUR WEBSITE FOR APPLICATION LIST.

Part No.	Description	Price
11-06954	Piper 18/24/30/39	---
11-13480	Piper 20/22	---
11-13481	PA-23	---
11-13482	Piper 24-260	---
11-13484	Piper 28/32	---
11-13485	Piper 28-161	---
11-13486	Piper 31	---
11-13487	Piper 32	---
11-13488	Cessna 150	---
11-13489	Cessna 172	---
11-13490	Cessna 180/182/185/188	---
11-13491	Bogert Positive And Negative Cables	---

BOGERT BATTERY BOX MODIFICATION

The Battery Box Mod greatly improves battery performance. It modifies Piper Metal Battery Boxes to eliminate the braided straps and ground connections known for heat generating, high resistance connection.
Hard starting and other electrical problems can often be tracked back to poor battery and group connections. Use this inexpensive mod with a new positive and negative cable if your battery box is still mechanically sound.....P/N 12-16400 ..... ---

BOGERT BATTERY BOX NYLON FLANGES

Improve Starting Performance. Easier Removal & Installation of Battery. May prolong life of battery and starter. Less expensive to modify existing box than to replace. Compatible with our famous "Low Loss" Cable Kits! Eliminate extra connection on outside of the battery box. Do away with the troublesome braided negative strap.
Nylon Flanges replacement or experimental..... P/N 11-02892..... ---
Nylon Flanges STC'd / PMA'd..... P/N 11-02893..... ---

BOGERT CONCORDE BATTERY POST ADAPTERS

The Concorde copper battery adapter raises the battery terminal height to match the standard G-35 battery terminal. Moves the cable to battery connection inward away from the battery box to increase clearance and promote safety. Aligns the battery connection with the battery box cable cut outs and sealing grommets to reduce stress on the cable and adapter plates which reduces maintenance. Can be moved from battery to battery. - PMA'd ..... P/N 11-02891 ..... ---

PANASONIC LC-R127R2P BACKUP RECHARGEABLE BATTERY

Panasonic's tough-sealed lead-acid (SLA) rechargeable batteries are designed to provide outstanding performance in withstanding overcharge, over-discharge and resisting vibration and shock. Compact, these batteries save installation space while providing full and reliable power. The use of special sealing epoxies, tongue-and-groove case construction, long-sealing paths for posts and connectors assures that the battery will offer exceptional leak resistance and allows them to be used in any position.
Applications: • UPS (Uninterruptible Power Supplies) • Emergency Lighting • Wheelchairs • Telecom Back-Up Power Supplies • Portable VCRs • Lawn and Garden Tools • Engine Starters
P/N 11-17583 ..... ---

EL

BATTERY CHARGERS AND TESTERS

TDMC+ BATTERY CHARGER

For 12V and 24V aircraft batteries
• New! LCD Screen shows • Real time voltage and current • Reverse polarity and short circuit protection •Battery voltage before and during charge • Constant current and constant voltage charge •1A to 6A selectable charging current (upgrade from 4A) • Input: 110/220 VAC 50/60 Hz Operation • Output: 14.4 or 28.8 VDC 0-6 Amps • Dimensions: 5.71"W x 9.12"H x 3.15"D • Weight, lb.: 6.0
• 2-year warranty .....P/N 11-18842 ..... ---

GC-024 24VDC BATTERY BUDDY CHARGER

Light weight / High strength aluminum case. Fully automatic: 3 stage charger can be left on the battery for long periods. Charge Status LED's: Power on, charging and full charging. Circuit protection: reverse polarity and short circuit protected (fused). UL and CE approved. Power cord length 6 feet and 4 foot Charger cord with alligator clips included. Charge control: Modified constant current charge to a constant finishing voltage, then to a float standby. Supported with a 2 year warranty.
P/N 11-10570 ..... ---

GC-024E 24VDC BATTERY BUDDY CHARGER ASSEMBLY

This light weight GC-024E charger is designed for larger batteries with the Elcon connector. Elcon Assembly for Quick Set-Up . Light Weight / High Strength Aluminum Case. Full Automatic: 3 Stage Charger can be left on the Battery for long periods. Charge Status LEDs: Power On, Charging and Fully Charged. Circuit Protection: Reverse Polarity and Short Circuit Protected (Fused).UL and CE Approved. Power Cord Length: 6 Feet. Charge Cord Connected to Elcon Assembly. Charge Control: Constant potential then reverts to a float standby. Supported with a 2 Year Warranty. Input: 110-240 VAC 50/60 Hz +/-10% Auto Switch. Output Equalizer Voltage: 28.8 VDC +/-0.2V. Output Float Voltage: 26.8 VDC +/-0.2V. Dimensions: 7.2"W X 3.1"H X 7.8"D. Weight: 2.6 pounds.....P/N 11-13011 ..... ---

GILL TCT-1000 12V/24V CAPACITY TESTER

The TCT -1000 Battery Capacity Analyzer has been designed to perform automatic capacity testing of 12 and 24 Volt lead-acid batteries. This unit is capable of accurately measuring the capacity of a fully charged battery with a rating between 10 and 59 amphours. It is self-contained and easy to operate. The load tester will display, in percentage, the conformance to the battery's one hour rating.
P/N 11-03302 ..... ---

CONCORDE AIRCRAFT BATTERY PARASITIC LOAD TESTER

This Parasitic Load Tester Adaptor (PLTA) measures the parasitic load / drain on aircraft batteries when the master switch is off and the aircraft is inactive. The adaptor is designed to mate with a MS3509 style quick disconnect receptacle. Measuring parasitic load is easy to do by connecting the PLTA between the battery receptacle and the aircraft mating plug. The PLTA is a molded polypropylene body equipped with separate test leads for connection to a digital multimeter (DMM). It is rated for loads up to 10 amperes and is equipped with a 10 amp fuse.
P/N 11-09841 ..... ---

TELEDYNE GROUND POWER BATTERIES

Model	Voltage	Wt. Dry	Acid	Part No.	Price
T6200	12	147	None	11-10766	---

L= Lektro Start Cart

BC 1500 BATTERY CHARGER

The BC 1500 is an all-in-one diagnostic charger, combined with a robust design. It fits all charger needs in a workshop. The icon based interface allows any technician to begin as an expert. No training required. The device is fully automatic plug & play ; no set up required.
P/N 11-20525 ..... ---

BA 1500 BATTERY ANALYZER

The BA 1500 is an all-in-one battery analyzer combined with a robust design. It fits all battery analyze needs in hangar or on tarmac. The icon based interface allows any technician to begin as an expert. No training required. The BA 1500 Scientifically analyzes battery performance with a true constant current battery capacity test. The device is fully automatic plug & play ; no set up required. P/N 11-20524 ..... ---

BC-5000 BATTERY CAPACITY TESTER

From Concorde, a portable, light weight unit designed to provide the operator with an economical, easy, and accurate means for capacity testing aircraft batteries. Fully automatic testing for 12 Volt AND 24 Volt lead acid aircraft batteries. Powered by the battery being tested - No AC power required. Constant current load adjustable in 1.0 Amp increments 10 to 55 Adc. 50 mv voltage resolution. 10 LBS / 4.5 KG Length 12" (30 cm). Width 9" (23 cm). Height 10" (25 cm). LCD display. Overtemperature protection. Audio alert when capacity test is complete. P/N 11-07388 ..... ---

BC-6000 BATTERY CAPACITY TESTER

From Concorde, the BC-6000 is a portable, light weight unit similar to the BC-5000 with an added feature for printing test reports. Plugged into a USB port, the B-6000 will create test reports directly from your computer. Tests both 12V and 24V lead acid batteries with capacity ratings from 10 AH to 55 Adc. Powered by the battery being tested - No AC power required. Constant current load adjustable in 1.0 Amp increments 10 to 55 Adc. 50 mv voltage resolution. 10 LBS / 4.5 KG Kg. Length 12" (30 cm). Width 9" (23 cm). Height 10" (25 cm). LCD display. Overtemperature protection. Audio alert when capacity test is complete or malfunction of unit. USB 2.0 port for test report print out ..... P/N 11-10482 .....

BC-7000 BATTERY CAPACITY TESTER

From Concorde, the BC-7000 is similar to the BC-6000 with the benefit of adjustable current loads in smaller increments and the ability to use on Lead Acid or Ni-Cd batteries. The unit is AC powered. Fully automatic testing for 12V AND 24V aircraft batteries. Universal AC power input 85 -265Vac (47 to 63Hz). Constant current load adjustable in 0.1 Amp increments from 0.5 to 15Adc. Constant current load adjustable in 1.0 Amp increments from 15 to 50 Adc. 10mv voltage resolution. Displayed battery capacity (CI) %. 10 LBS / 4.5 KG. Length 12" (30 cm). Width 9" (23 cm). Height 7.5" (19 cm). LCD Display. USB 2.0 port for test report print out. Overtemperature protection. Audio alert when capacity test is complete or malfunction of unit ..... P/N 11-10483 ..... ---

BC-8000 BATTERY & CAPACITY TESTER

The BC-8000 has been designed to provide the operator with a cost effective battery charger and capacity tester in one unit. The step by step digital display is easy to program in order to set it and forget it. For use on Nickel Cadmium or Lead Acid Batteries.

Capacity Tester Features: • Adjustable constant current load in 0.1 Ampere increments from 0.5 Ampere to • Adjustable constant current load in 1.0 Ampere increments from 15 • Ampere to 55 Ampere (+/- 1.0%) • USB 2.0 port for PC connection • BC Report Utility software for hard copy printout of test results

Charger Features: • Adjustable output from 3.0 to 36.0 Vdc • Adjustable output amperes from 0.05 to 25 Adc • Constant voltage (CV) or constant current (CC) charge • Adjustable charge time from 1-999 min • Single or two step charge routine. P/N 11-10484 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SCHAUER BATTERY CHARGERS

BATTERY CHARGERS BY SCHAUER

Over 70 years of manufacturing experience assures, the user of the finest line of battery chargers—solid state circuitry, non-aging silicon rectifiers at low prices. All chargers furnished with complete operating instructions. One year warranty.

11-00885

JAC1212, JAC0524, & JAC0724 - Fully Automatic - World-Wide Universal Input, Electronic Charger. Intelligent chargers follow battery impedance to end of charge cycle for all battery types. Fully automatic. Red LED indicates AC power on, yellow LED indicates battery is charging, green LED indicates float mode. Aluminum case.

Amps	Volts	Size	Weight	Part No.	Price
12	12	6.5"W x 3.5"H x 1.8"D	1.8 lbs.	11-00890 (2)	---
5	24	6.5"W x 3.5"H x 1.8"D	1.8 lbs.	11-00885 (1)	---
7	24	6.5"W x 3.5"H x 1.8"D	1.8 lbs.	11-00889 (1)	---

(1) DC cordsets 3' long: with ring terminals or XLR connector.
(2) With stripped leads

MODEL JAC2024H - Intelligent chargers follow battery impedance to end of charge cycle for all battery types. Fully automatic. Green LED indicates AC power on, yellow LED indicates battery is charging, yellow LED off indicates float mode. Charge control: constant current charge to a constant voltage, then to a float standby. Current limiting. Fully automatic 3 stage charger can be left on the battery in maintaining/float mode. Can be set for any type lead acid battery, including conventional, maintenance free, deep cycle, gelled-type, valve regulated batteries. Cyclic voltage: FLOODED 2.5 volts/cell; GEL & AGM 2.4 volts/cell. 2.6 volts/cell for 36 & 48 volt batteries. May be preset to customer's specification for battery type. Not intended for use as a DC power supply. Continuous - 100% duty cycle. Low voltage start: will start charging a deeply discharged battery with terminal voltage less than 4 volts. Reverse polarity and short circuit proof. Aluminum case. AC Input 115/230 volts, 50 or 60Hz Input voltage autosensed. 20 AMPS / 24 Volts. 10"W x 7.5"H x 3"D.
6.5 lbs.....P/N 11-00891 ..... ---

MANUAL CHARGERS

Manual chargers must be disconnected when battery is charged to prevent overcharging and damage to the battery. Normal indication that battery is charged is when ammeter stabilizes for one hour.

BATTERY CHARGER 24V/5AMP

Fully Automatic. World-Wide Universal Input Electronic Charger. Intelligent chargers follow battery impedance to end of charge cycle for all battery types. Fully automatic. Red LED indicates AC power on, yellow LED indicates battery is charging, green LED indicates float mode. Aluminum case.
With Battery Clips.....P/N 11-00885 ..... ---
With Ring Terminals.....P/N 11-14678 ..... ---

BATTERY CHARGER 24V/7AMP WITH BATTERY CLIPS

Intelligent chargers follow battery impedance to end of charge cycle for all battery types. Fully automatic. Red LED indicates AC power on, yellow LED indicates battery is charging, green LED indicates float mode. Aluminum case.....P/N 11-14737 ..... ---

BATTERY CHARGER 24V/30AMP WITH BATTERY CLIPS

Intelligent chargers follow battery impedance to end of charge cycle for all battery types. Fully automatic. Red LED indicates AC power on, yellow LED indicates battery is charging, green LED indicates float mode.....P/N 11-14738 ..... ---

BATTERY CHARGER 24V/3AMP WITH BATTERY CLIPS

Intelligent chargers follow battery impedance to end of charge cycle for all battery types. Fully automatic. Red LED indicates AC power on, yellow LED indicates battery is charging, green LED indicates float mode. Aluminum case.
P/N 11-14736 ..... ---

BATTERY CHARGER 24V/2AMP WITH BATTERY CLIPS

Intelligent chargers follow battery impedance to end of charge cycle for all battery types. Fully automatic. Red LED indicates AC power on, yellow LED indicates battery is charging, green LED indicates float mode. Aluminum case.
P/N 11-14735 ..... ---

BATTERY CHARGER 12V/5AMP WITH RING TERMINALS

Intelligent chargers follow battery impedance to end of charge cycle for all battery types. Fully automatic. Red LED indicates AC power on, yellow LED indicates battery is charging, green LED indicates float mode. Aluminum case.
P/N 11-14733 ..... ---

BATTERY CHARGER 12V/2AMP WITH BATTERY CLIPS

Intelligent chargers follow battery impedance to end of charge cycle for all battery types. Fully automatic. Red LED indicates AC power on, yellow LED indicates battery is charging, green LED indicates float mode. Aluminum case.
P/N 11-14732 ..... ---

BATTERY CHARGER 12V/25AMP WITH BATTERY CLIPS

Intelligent chargers follow battery impedance to end of charge cycle for all battery types. Fully automatic.
Red LED indicates AC power on, yellow LED indicates battery is charging, green LED indicates float mode.....P/N 11-14734 ..... ---

SCHAUER CESSNA PLUG ADAPTER

Schauer Cessna Plug Adapter With SB50 Gray Connector. .....P/N 11-14741 ..... ---

SCHAUER PIPER PLUG ADAPTER

Schauer Piper Plug Adapter With SB50 Gray Connector. .....P/N 11-14742 ..... ---

SCHAUER DC BATTERY CLIP ADAPTER

Schauer DC Battery Clip Adapter With SB50 Gray Connector. .....P/N 11-14739 ..... ---

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BATTERY CHARGERS

AVIATION BATTERY CHARGER

Industrial quality charger. Is user programmable to charge all lead acid batteries, wet cell, AGM, or gel type. A digital volt meter and amp meter gives the operator REAL information, along with a tri-color LED to track charge progress. For safety, polarity protected, and current limited. Can be left connected and charging while engine is started. Prevents sulfation of battery if left connected, no need for an extra product. Will turn on and recover batteries with as little as 2 volts. 3 year warranty. Made in U.S.A.....P/N 11-14846 ..... ---

MICRO-START PERSONAL POWER SUPPLY XP-1

World's smallest Jump Starter and Personal Power Supply. Just charge it once and take your power where ever you go. So small it fits in your pocket, yet so powerful it can jump-start Motorcycles, Cars and Trucks! Amazingly, it will also power and charge your electronics. Built in flashlight with an S.O.S. pattern. Whatever you do, don't get stuck without back-up power again!

P/N 11-12103 ..... ---

KELLY BC3000 BATTERY ANALYZER

"Your Battery M.D." Portable and cordless the BC-3000 is a lightweight fully automated battery analyzer assessing the health of all lead-acid aircraft batteries with an ampere hour range of 1-59. Connect the battery using the included quick battery connection adapters, the unit automatically senses and selects 12 or 24 volts.

P/N 08-07161 ..... ---

QUICKI DUAL 12-24VDC ULTRA FAST CHARGER

The Quicki Dual Voltage / Dual USB charger is a compact and powerful device for ULTRA FAST charging your portable electronics. Built for rugged use in any 12 or 24 Volt vehicle, it provides 2.4 Amps of charging power to both USB ports (4.8A Max, 60W). A combination of internal over-voltage, over-current and internal UL-approved fuse provide superior protection of your devices while charging. FCC approval ensures the device won't create RF interference with nearby electronics and radios. Designed for use in Aviation, Commercial Vehicles, Marine, Utility applications and Automotive use. Compact design (3" x 1.1") with LED status indicator. Tested to ensure compatibility with Apple, Android, Tablet and other USB-compatible devices, the Quicki charger provides super fast recharging.....P/N 11-14110 ..... ---

WHITE LIGHTNING M1428-DV DUAL VOLTAGE MINI GPU WITH 3-PIN OVAL PLUGS

The M1428-DV Mini-GPU is a specialized switching-mode power supply designed to provide pilots and aviation maintenance professionals with a portable, affordable source of stable, high-current, noise-free DC power that replicates the in-flight electrical environment. It contains discrete outputs for either 14 or 28-volts DC, selectable by a front panel switch. It only provides one output voltage at a time, switch-selected and indicated by the front panel voltmeter display. The GPU's intended purpose is to energize an aircraft's main electrical bus without using the ship's battery or engine. It will safely provide continuous power for the most delicate electronics and airframe systems up to its full rated output.

The Model M1435 comes with two 6' airframe output cables – one with a yellow SB50 for 14V output, and one with red for 28 volts – to protect from damage due to accidental voltage mismatch. Both output cables have AN2551 3-pin oval plug that connects to the aircraft. For E/A-B connections, the 802-864 yellow to yellow SB50 may be purchased separately.

P/N 11-19266 ..... ---

WHITE LIGHTNING M1435-EXP 14V MINI GPU

Clean, stable, airframe power specifically for the needs of the E/A-B aircraft. Output fixed at 14.25VDC, up to 35A maximum continuous power. Ideal for cockpit database and EFIS updates, flight planning, powered preflight, procedures training, and general maintenance. Includes an Airframe Interface Kit to permanently wire a quick-connect polarized receptacle to the aircraft's main electrical bus. Detachable, replaceable 6' output cable included. Fully protected operation with automatic recovery. **Features**: • Collapsing carry handle • Color-coded, polarized output connectors prevent voltage mismatch • High-efficiency switching-mode power technology • Digital voltmeter/ammeter and operational status LED • Forced air cooling for long term reliability • Programmable timer with safety auto-shutoff • USB 5V accessory convenience outlet. For Experimental Aircraft P/N 11-18939 ..... ---

WHITE LIGHTNING M1435 14V MINI GPU

Clean, stable, airframe power for 12/14-volt aircraft. Output fixed at 14.25VDC, up to 35A maximum continuous power. Ideal for cockpit database and EFIS updates, flight planning, powered preflight, procedures training, and general maintenance. Detachable, replaceable 6' output cable. Fully protected operation with automatic recovery. **Features**: • Compact, lightweight, rugged design with collapsing carry handle • Color-coded, polarized output connectors prevent voltage mismatch • High-efficiency switching-mode power technology • Digital voltmeter/ammeter and operational status LED • Forced air cooling for long term reliability • Programmable timer with safety auto-shutoff • USB 5V accessory convenience outlet • For Certified Aircraft.

3-Pin Oval Plug.....P/N 11-18943 ..... ---
Piper Plug.....P/N 11-18941 ..... ---

WHITE LIGHTNING M2850 50-AMP 28-VOLT GPU WITH 3-PIN OVAL PLUG

The M2850 Mini-GPU is a specialized switching-mode power supply designed to provide pilots and aviation maintenance professionals with a portable, affordable source of stable, high-current, noise-free DC power that replicates the in-flight electrical environment. Its rated output is 28-volts up to 50-amps (approximately 1500 watts). The GPU's intended purpose is to energize an aircraft's main electrical bus without using the ship's battery or engine. It will safely provide continuous power for the most delicate electronics and airframe systems up to its full rated output. **Features**: • Color-coded, keyed SB-50 type output connection to prevent accidental voltage mismatch. RED designates 24/28 volt compatibility. • Digital output meter shows voltage and amperage (load) • Front panel status indicator LED • Programmable auto-shutdown timer and dual USB power ports for mobile device charging • QuietFiltered output for interference-free COM radio operation • Auto protection/recovery from short circuit, reverse polarity, over voltage/load/temperature. P/N 11-19265 ..... ---

WHITE LIGHTNING M2827 28V MINI GPU

Clean, stable, airframe power for 24/28-volt aircraft. Output fixed at 28.5VDC, up to 27A maximum continuous power. Ideal for cockpit database and EFIS updates, flight planning, powered preflight, procedures training, and general maintenance. Detachable, replaceable 6' output cable with AN2551 3-pin oval plug. Fully protected operation with automatic recovery. Suitable for most piston powered aircraft. **Features**: • Compact, lightweight, rugged design with collapsing carry handle • Color-coded, polarized output connectors prevent voltage mismatch • High-efficiency switching-mode power technology • Digital voltmeter/ammeter and operational status LED • Forced air cooling for long term reliability • Programmable timer with safety auto-shutoff • SB 5V accessory convenience outlet • For Certified Aircraft. P/N 11-18942 ..... ---

WHITE LIGHTNING 28V SMARTGPU

The White Lightning SmartGPU is a specialized switching-mode power supply designed to provide pilots and aviation maintenance professionals with a portable, affordable source of stable, high-current, noise-free DC power that replicates the in-flight electrical environment. Its rated output is 28-volts up to 114-amps. The GPU's intended purpose is to energize an aircraft's main electrical bus without using the ship's battery or engine. It will safely provide continuous power for the most delicate electronics and airframe systems up to its full rated output. The SmartGPU mobile app allows the user to monitor the power draw from the flight deck or anywhere in the hangar.

54 AMP Max.....P/N 11-20345 ..... ---
114 AMP Max.....P/N 11-20346 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BATTERYMINDER® BATTERY CHARGERS

BATTERYMINDER CHARGER / MAINTAINERS

BATTERYMINDER 24V 2,4,8A CEC2 CHARGER, DESULFATOR LITHIUM CHARGER MAINTAINER

24-Volt 224CEC2 Standard Lead-Acid Maintenance Charger-Desulfator Lithium Charger Maintainer.
P/N 11-19243 ..... ---

BATTERYMINDER 12V 2,4,8A CEC2 CHARGER, DESULFATOR LITHIUM CHARGER MAINTAINER

12-Volt 128CEC2 Standard Lead-Acid Maintenance Charger-Desulfator Lithium Charger Maintainer.
P/N 11-19244.....---

BATTERYMINDER 12V CONVERTIBLE CHARGER / MAINTAINER

The 12 Volt 1.5 AMP BatteryMINDer Model 1215C charges, maintains and dissolves sulfate from older batteries. It is a true seven (7) stage charger with full-time High Frequency (not high voltage) desulfation. It is temperature-compensating to prevent over/undercharging regardless of how long left connected. Ruggedly built to withstand harsh conditions found under the hood and in hot/cold temperatures. Complete with two mounting brackets for multiple vehicles/locations, fully-insulated battery clips, ring terminal-assembly for permanent direct-to-battery attachment. P/N 11-19248 ..... ---

BATTERYMINDER AIRFRAME INTERFACE KIT

This kit provides standard aircraft parts acceptable under 14 CFR §21.9 for a FAA certificated mechanic to fabricate and install a fused, 2-wire harness for connecting an aviation-specific BatteryMINDer® brand of low-current, continuous-duty, maintenance-type battery charger. The finished harness typically has ring terminals attached to the battery relay connecting to a Anderson SB50 polarized plug at the opposite end by up to 6 feet of MIL-spec unshielded 16-gauge aircraft wire, with a 10-amp in-line fuse. The SB50 plus is encased in a 670-420 SB50 Handle Kit which provides a rugged hand grip. An insulating dust cover protects the plug when not connected to the charger. Anti-chafe sleeving is included. This kit is eligible for installation by a licensed mechanic as a minor alteration under 14 CFR §1.1 and §21.93(a) as it has "no appreciable effect on the weight, balance, structural strength, reliability, operational characteristics, or other characteristics affecting the airworthiness" of the aircraft. No STC, Form 337 submittal or FSDO field approval is required per FAA Order 8900.1 Figure 4-67. A §43.9 airframe logbook entry is sufficient to document this alteration and return the aircraft to service. Also includes a short harness to adapt the charger's SAE output connector to a mating Anderson SB50 plug. This harness is connected to and remains with the charger. It is not installed on the aircraft.
Model BM-AIK2 Airframe Interface Kit.....P/N 11-10835 ..... ---
Model RTA-2415EXP .....P/N 11-14576 ..... ---

BATTERYMINDER RT2ELCON CONNECTOR

The BatteryMINDer RT2ELCON Elcon Connector/Adapter to Ring Terminal Assembly is designed to be used only with BatteryMINDer models 244CEC1-AA-S2, -S3 and -S5.
The Elcon Adapter combined with the Ring Terminal Assembly allows an easy, foolproof connection from an aviation battery's terminals to the BatteryMINDer Aviation-Calibrated charger-maintainer-desulfators (not for use with the BatteryMINDer 28252-AA Power Supply), eliminating the need to connect with battery clips which may become accidentally detached while in use.
Note: RT2ELCON Type Connector designed for use with 24V Aviation models only. .....P/N 11-18167 ..... ---

BATTERYMINDER 12/24V CONTROLLER W/20 WATT PANEL SOLAR BATTERY CHARGER-MAINTAINER-DESULFATOR

12V/24V Controller w/20 Watt Solar Panel Battery Charger optimizes all solar panels charge rates. It actively monitors your battery's voltage any time the sun is up. The internal program adjusts its output several times a second based on this reading to quickly and correctly charge your battery. When used as a maintainer, the BatteryMINDer® is guaranteed to maximize your battery's life and storage capacity. The long-term float (maintenance) stage can add years of service. This solar battery charger/maintainer/desulfator prevents over/under charging. It also safely extends the life and performance of all batteries.
Solar battery charger SCC1224-AA-S2 works with 12/24V Gill Aviation Batteries .....P/N 11-19245 ..... ---

ODYSSEY BATTERIES

Solar battery charger SCC1224-AA-S3 works with 12/24V Odyssey Aviation Batteries.....P/N 11-19246 ..... ---

CONCORDE BATTERIES

Solar battery charger SCC1224-AA-S5 works with 12/24V Concorde Aviation Batteries.....P/N 11-19247 ..... ---

BATTERYMINDER AVIATION BATTERY CHARGERS / MAINTAINERS - 12 VOLT

The aviation battery specific line of BatteryMINDer® battery chargers-maintainers-desulfators are the most advanced ever produced. In addition to charging and maintaining the indicated aviation batteries, users can now determine the level of charge remaining in their battery, and if weak and in need of replacement, before going bad. Units test for weak/dead cells and will recover weak or severely discharged batteries that other chargers would reject. Known as the CEC2-AA series they feature advancements in easy to understand battery analysis and condition not previously available in any other single model.
Gill (Sealed & Wet).....P/N 11-19242 ..... ---
Hawker-Odyssey / Gill LT 7000.....P/N 11-19241 ..... ---
Concorde (Sealed & Flooded).....P/N 11-19239 ..... ---

BATTERYMINDER® AVIATION ACCESSORIES

#1

#3

#4

#5

Accessories for use with 28252-AA ONLY				
1	11-09561	ELCTC ELCON Type Connector	optional	---
3	11-09559	A2ELCON Anderson Gray to ELCON-type	optional	---
4	11-09560	A2RT 11/32" Ring Terminals	optional	---
5	11-09562	A2GPU-1 Anderson to "Cessna"-type GPU Plug Assembly	optional	---

BATTERYMINDER® CIGARETTE LIGHTER ADAPTER

12-V / 24-V w/15A Pwr Plug. Works with ALL BatteryMINDer products.
P/N 11-07209 ..... ---

BATTERYMINDER® RTA-2415 - 2 FOOT RING TERMINAL ASSEMBLY

The 6-foot long BatteryMINDer® RTA-2415 Quick Connect/Disconnect Ring Terminal Assembly allows easy connect/disconnect of BatteryMINDer® chargers to battery terminals.....P/N 11-12440 ..... ---

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BATTERY CHARGERS

PULSETECH QUADLINK MULTI STATION CHARGER KITS

The 8-Station QuadLink 12V Battery Maintenance Charger Kit includes both an X2 Xtreme 2-Station Pulse Maintenance 12V Battery Charger and two QuadLink 4-Channel Battery Multiplies allowing you to charge, maintain and desulfate up to EIGHT individual 12V (VRLA, AGM and flooded cell) batteries, up to FOUR 24V commercial systems composed of two 12V batteries connected in series such as those in generators, buses, heavy trucks and fork lifts or 12V batteries in 36 and 48V series connected configurations.

Model	Part Number	Price
8 Station	11-11380	---

OPTIMATE SOLAR DUO 12V CHARGERS

Charger by day, monitor by night-Optimate Solar Duo 10watt, the smart sun powered charger and maintainer for all 12v batteries.
Ideal for 12V lead-acid / 12.8V lithium batteries found in the vehicles and craft above.
The smart charge controller automatically adjusts charge according to battery type and condition – OptiMate Solar DUO's smart control guarantees longer battery life and more battery power!
The controller's fully automatic multi-step program brings the battery safely to full charge – Connect to the battery and OptiMate Solar DUO 10W does the rest, no supervision required!

Model	Part Number	Price
10 Watt	11-19325	---
20 Watt	11-19326	---
40 Watt	11-19327	---
60 Watt	11-19328	---
80 Watt	11-19329	---

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OPTIMATE SOLAR BATTERY CHARGER/MAINTAINER FOR EARTHX BATTERIES

The Optimate TM-522-D4 Lithium solar charger will charge and maintain your lithium battery with 3 amps / 40W of energy.
Outer Dimension: (including corner mount brackets): 16.6"W x 27"H x 1.25"D
P/N 11-19227 ..... ---

TRUE BLUE POWER BATTERY CHARGER/ TESTER TS420 SERIES

True Blue Power's TT43 Battery Tester and Charger is designed to charge and test the removable battery for the Mid-Continent Instruments and Avionics 4300 Series (9015607) and the True Blue Power TS420 Series Emergency Power Supply.
The TT43 recharges batteries in five hours or less and can test and charge two batteries simultaneously.
Features: • Tests and charges all Mid-Continent lead-acid battery packs: • 4300 Series (0.5Ah battery) • TS420 (0.5Ah battery) • TS420-1 (2.5Ah battery) • Alphanumeric dot matrix LCD display provides dynamic test status and measurements • Test/Charge one or two batteries simultaneously in less than 5 hours • Microprocessor control adjusts test to accurately compensate for acceptable battery variation • Bright LEDs provide quick reference pass/fail results • Can float charge batteries indefinitely to maintain an always-ready state • Designed and built in Wichita, Kansas, USA • Two-year limited warranty
P/N 10-07595 ..... ---

PORTABLE POWER AND JUMP STARTER

Heavy Duty 12/24 Volt - 720 CCA Portable Power & Jump Starter. Designed for the Professional Market. • Two 12 Volt 22Ah Heavy-Duty Sealed AGM Battery provides "Best in Class" Performance • Jump starts with 720 CCA of power • Three position"12V/OFF/24V" Switch with Easy-to-Read LED Battery Status Indicator • Two 12 Volt DC Accessory Outlet to Power and/or Recharge DC Electronics • LED Work Light • Ideal for jump-starting cars, trucks, boats, RV's and tractors • Up to 100 hours of portable 12 Volt DC for power tools, work lights and more • Heavy Duty 500A Insulated Clamps • Designed for rough use • UL listed external wall charger • Patented .....P/N 11-14030 ..... ---

BATTERY TENDER PLUS 12V / 1.25A BATTERY CHARGER

The Battery Tender Plus is a 1.25 amp battery charger designed to fully charge a battery and maintain it at proper storage voltage without the damaging effects caused by trickle chargers. Included is a quick connect harness for hard to reach areas. • Temperature compensated to ensure optimum charge voltage according to ambient temperature. • Automatically switches from full charge to float charging mode. • Battery Tender at 1.25 amps will charge as fast or faster than any 3 amp charger available. • Reverse Polarity Protection to ensure user safety. Red & Green Lights • Alternately Flash in this condition. • Complete 4-step charging program (Initialization, Bulk Charge, Absorption Mode, Float Mode). • 10 year Warranty!.....P/N 11-03157 ..... ---

BATTERY TENDER 12V - 5 AMP / 2.5 AMP SELECTABLE CHEMISTRY WEATHER RESISTANT BATTERY CHARGER

Designed for harsh environments the 5 AMP ultra tough Battery Tender® battery charger & maintainer is weather resistant and built to endure elements. Perfect for industrial heavy duty machinery that puts your gear to the test. This charger is versatile and designed to allow you to choose between AGM, Flooded, GEL, or Lithium (LifePO4) batteries. Switch easily between 12V @5 AMPs or 24V @2.5 AMPs. Integrated mounting capabilities give you the option to install easily on to your heavy duty vehicles and equipment ....P/N 11-18354 ..... ---

BATTERY TENDER JUNIOR

120 VAC /60 Hz input. Includes Ring Terminals and Alligator Clips with BLACK (6, 8, & 12V) QDC. **DO NOT USE WITH GILL OR CONCORDE AVIATION BATTERIES.**

Model	Part Number	Price
12V 0.75A	11-05164	---
8V 1.25A	10-06024	---
6V 1.25A	10-06023	---

AVIATION GROUND POWER UNITS (GPU)

Safe, Affordable, Airframe Power for Piston and Light Turbine Aircraft, the Enhanced Flight 2800 Series GPU achieves a remarkable 89% electrical efficiency to provide up to 2,000W of power. Its cool running, switching-mode power modules provide massive amounts of stable, noise-free 28V DC power from a 90-230 volts AC input. It will safely power the most delicate airframe systems with laboratory-grade DC without risk of costly damage to sophisticated avionics, instruments, or electronic equipment. This new generation GPU is designed as a practical alternative to large, expensive start carts, battery chargers, and other devices designed for spinning starter motors. Unique, ergonomic design features dual, removable cord/ tool caddies. Choose 35A or 70A output. Comes with 2-meter output cable with 3-pin AN2551 NATO power plug, compatible with standard AN2552-3A or MS3506-1 aircraft external power receptacle. Not for turbine engine motoring or start assist. Option of integral BatteryMINDer 244CEC1-AA multi-stage maintenance charger-desulfator for lead-acid aviation batteries. Ambient temperature compensation ensures precise charging under all conditions. Airframe charging harness kit included.
24V 35A GPU.....P/N 11-10831 ..... ---
24V 35A GPU built-in BatteryMINDer.....P/N 11-14771 ..... ---
24V 70A GPU.....P/N 11-10833 ..... ---
24V 70A GPU built-in BatteryMINDer.....P/N 11-14772 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

OPTIMATE PRO-S DIAGNOSTIC DESULFATING BATTERY CHARGER

OptiMate PRO-S initializes, desulfates & charges 1 x 12V battery at a time – from small to large. The OptiMate Pro-S has a charging system able to save a neglected *sulfated battery that cannot accept charge from a standard charger or the engine charging system. Battery power is optimized during bulk, absorption & cell balancing charge modes, and then tested to verify charge retention. Battery life is extended if left connected to OptiMate PRO-S when vehicle/craft/equipment is not in use.

P/N 11-07222 ..... ---

OPTIMATE 5 VOLTMATIC

Advanced 6V & 12V battery care for power sport / auto / marine size batteries. OptiMate 5 VoltMatic can SAVE & CHARGE all 6V & 12V lead-acid batteries. Simply connect the charger to the battery, the VoltMatic micro-processor automatically makes the correct charge voltage selection for a 6V battery in any condition or healthy* 12V battery and then proceeds to charging. Charging Amps: 4A (6V) / 2.8A (12V) (Ampmatic). Use: Indoor / Outdoor (lowest temperature: -4°F / -20°C). Save: Low Volt Start of 1V + 2-step desulphation recovery. Ideal for: STD, AGM & GEL 6 & 12V batteries from 8 – 120Ah (up to 192Ah for 6V). Input: Global (100-240V 50-60Hz), high efficiency (CEC listed), fully sealed. Style: Weatherproof case with wall mounts, with 6ft / 180cm AC supply lead and 6ft / 180cm charge lead ending in SAE connector. Weatherproof battery lead & standard battery clip set included .....P/N 11-14751 ..... ---

OPTIMATE 7 SELECT TM-261

8-step 12V 10A/24V 5A Battery Saving charger-tester-maintainer (BC - California & Oregon approved) The world's most advanced 12V & 24V battery charger! OptiMate 7 12V-24V is perfect for high performance 12V and 24V starter and deep cycle batteries that demand accurate temperature controlled charging and unsupervised safe long term maintenance. Designed for sensitive electronics:The SAVE program has been designed for SAFE fully automatic low volt start (from 0.5 Volts) and PULSE recovery of deep discharged batteries connected to very sensitive electronics e.g. light aircraft, industrial equipment .....P/N 07-18076 ..... ---

OPTIMATE LITHIUM BATTERY CHARGER

OptiMate Lithium 4s 6A, the advanced 'PRO' battery charger for the 12.8V/13.2V LiFePO4 / LFP lithium battery in your performance/race motorcycle, car or craft. **Features**: • Provides stable battery support during ECU programming / troubleshooting.• Power reset rapidly re-energizes the battery.• Automatically adjusts current to match battery size and condition.• Safe to leave connected. Full electronic protection.• Maintains battery at full charge and good health. **Specifications**: • Ideal for: Lithium (LiFePO4) 12.8/13.2V batteries from 3 – 72Ah• Charging AMPS: 6A (Ampmatic current)• Charging Volts: nominal: 12.8V range: 0.5V – 14.4V.....P/N 11-19535 ..... ---

OPTIMATE 7 SELECT TM-271

OptiMATE Lithium 4s 9.5A / 5s 7.5A TM-271, 10-step 12.8/16V 9.5A Battery saving charger-tester-maintainer (BC - California & Oregon approved) The ultimate professional battery charger for 12.8V/16V Lithium batteries. OptiMate Lithium LFP Select is perfect for high performance 12.8V (4s) and 16V (5s) LiFePO4 / LFP batteries that demand fully automatic, fast and accurate temperature controlled charging. Perfect for 12.8V / 16V LiFePO4 / LFP batteries sized from 2.5 to 200 Ah. Power saving stand-by mode. Full electronic protection against errors. P/N 07-18077 ..... ---

OPTIMATE TM-281 5 AMP BATTERY CHARGER

Designed for 24-28V Lithium batteries. This will charge and maintain your lithium battery with 5 amps of energy. This lithium charger also has a "tune" or power source mode of delivering 4 continuous amps of energy so you can program your EFIS or retune your car plus a pushbutton activated BMS "wake up" mode to safely wake up a battery out of sleep mode.

P/N 11-20330 ..... ---

AUXILIARY POWER UNIT (APU) & BATTERY CHARGER

Designed to supply filtered DC bus power through standard APU receptacle in private and commercial aircraft. Up to 25 or 50 amp is available for operating avionics and flight control systems when the master switch is activated. It can also charge the battery through the plug at a 10 amp rate. Output is current limited, and will withstand starting loads. Voltage is limited to prevent battery overcharging. DC Current and voltage are displayed on panel meters, voltage accurate to 00.00

Specifications: • Dimensions (H.W.D.): 8.5x10x12 • DC Amps: 25
Note: Available with piper plug too.

Model	Part No.	DC Volts	AC Power	Wt.	Price
Single Pin Plug 14v 25amp	11-07068	14	117 Volts 60hz. 3 amps	22	---
3 Pin Plug 14v 25amp	11-05662	14	117 Volts 60hz. 3amps	22	---
3 Pin Plug 28v 25amp	11-08146	28	117 Volts 60hz. 6 amps	33	---

REDIPULSE PRO-12 CHARGE / MAINTENANCE SYSTEM

The PulseTech Pro-12 Charge/ Maintenance System. It is designed to keep new batteries "factory-fresh" while they rest on the shelf waiting to be installed or sold. Batteries that sit idle suffer from damaging sulfation buildup (lead sulfate deposits on the battery plates). This buildup is the main cause of battery problems and failure. The Pro-12 uses our scientifically-proven ReNew-IT Pulse Technology to keep these deposits off the plates. By removing these energy-dampening deposits, your batteries are stronger than ever. This means your "shelf-life" warranty issues and other battery-related expenses are reduced dramatically.

P/N 11-07122 ..... ---

POWERVAMP PS100 28V AIRCRAFT POWER SUPPLY

The unit can be connected directly to the aircraft's external ground power receptacle and is primarily for operators of large DC business jets requiring a source of clean stable DC power for flight deck power and software updates. The front-mounted quick-disconnect output connector enables this unit to be used as a free-standing portable bench-mounted power supply when used with optional lead sets or alligator clips.

Used by civil and military operators, the PS100 is a standard product approved and offered by one of the leading US business jet manufacturers under their part number. An optional bandolier is available with a full set of adaptors/mains plugs, allowing instant connection to a mains supply anywhere in the world without the need to locate and wire a local plug.

The PS100 is fitted with two 50A power supplies connected in parallel complete with blocking diodes to prevent the highly undesirable reverse battery outrush current that can occur on connection to the aircraft causing arcing at the external aircraft power socket. Power supply healthy LEDs are fitted to the front panel for diagnostics.

Automatic input voltage selection 90–264V AC/47–63Hz allows international use. A solid state voltmeter and ammeter displays the output voltage and current, enabling operators to monitor the current draw of avionics and other pre-flight loads. Supplied with NATO lead set, input lead and heavy-duty canvas protective jacket.

P/N 11-20079 ..... ---

LAMAR POWER PRODUCTS ACTIVATOR 282/282V 24V AIRCRAFT BATTERY CHARGER

The Activator 282/282V is a direct connect, fully automatic 2 Amp charger capable of charging a 24 volt military or aviation battery of any rating from zero to full capacity. It is also a standby maintenance unit without the use of "trickle" charging, thus extending the life and durability of the battery. There is no gassing, heat or other detrimental results of trickle or float charge. The digital voltmeter continuously displays battery voltage during charge and standby.

282.....P/N 11-13888 ..... ---
282V .....P/N 11-16338 ..... ---

LAMAR POWER PRODUCTS 25 AMP BATTERY CHARGER ALPHA 25

Isolated charge - one or two batteries. Charges all 12 and 24 volt Lead Acid batteries and 1-22 cell NiCads. Current adjustable from 0 to 25 amps. True constant current (CI) for NiCad batteries or constant potential (CP) for Lead Acid batteries. Digital ammeter and voltmeter read charge current and voltage for either battery. Selectable charge time from 1 to 999 minutes with digital elapsed time. Operates on either 115 or 230 VAC.

P/N 11-13887 ..... ---

POWER PRODUCTS BETA D-50 BATTERY ANALYZER 50 AMP

Discharge capacity tester for all types of Nickel Cadmium, sealed or vented Lead Acid aircraft batteries. Services any voltage or type of battery. Constant current discharge adjustable from 0.1 to 50 amperes. Selectable low voltage cutoff. Selectable discharge time from 1 to 999 minutes with digital elapsed time readout. Audible alarm at end of test. Meters & timer lock-in their reading for amp-hr capacity. Accept and Fail lights for simplified GO/NO-GO test. Operates on either 115 or 230 VAC .....P/N 11-13889 ..... ---

EL

POWER PRODUCTS BATTERY CHARGER ANALYZER CM-1550 CML

The CA-1550 CML Charger/Analyzer is a portable or benchmounted self-contained unit for charging and discharging capacity testing aircraft or ground support batteries. It is simple to use and does not require programming or use of a computer. Digital read-outs of volts, amperes and time are clearly displayed. The CA-1550 CML has been designed to accurately charge, test and guarantee the emergency capacity of sealed or vented lead-acid or nickel-cadmium batteries. Guaranteed emergency capacity is especially important for aircraft batteries.....P/N 11-13886 ..... ---

POWER PRODUCTS CHARGER ANALYZER CA-1550-MIL

The CA-1550 MIL Charger/Analyzer is a portable or benchmounted self-contained unit for charging and discharging capacity testing aircraft or ground support batteries. It is simple to use and does not require programming or use of a computer. Digital read-outs of volts, amperes and time are clearly displayed. The CA-1550 MIL has been designed to accurately charge, test and guarantee the emergency capacity of sealed or vented lead-acid or nickel-cadmium batteries. Guaranteed emergency capacity is especiallyimportant for aircraft batteries.

P/N 11-17174 ..... ---

POWER PRODUCTS AC25C 12 VOLT BATTERY CONDITIONER AND CHARGER

Dual output charger for all types and ratings of Nickel Cadmium, sealed or vented Lead Acid aircraft batteries. • Isolated charge - one or two batteries. Charges all 12 and 24 volt Lead Acid batteries and 1-22 cell NiCads. Current adjustable from 0 to 25 amps. • True constant current (CI) for NiCad batteries or constant potential (CP) for Lead Acid batteries • Digital ammeter and voltmeter read charge current and voltage for either battery. • Selectable charge time from 1 to 999 minutes with digital elapsed time. • Operates on either 115 or 230 VAC .....P/N 11-15069 ..... ---

POWERVAMP PS300 28V AIRCRAFT POWER SUPPLY

Produced in partnership with Powervamp, the PS300 is a solid state hand-portable power supply delivering a maximum of 300A at a pre-set voltage of 28V DC for avionics use.

The unit can be connected directly to the aircraft's external ground power receptacle and is primarily for regional airline operators of turbine and turboprop DC aircraft or MROs requiring continuous power for maintenance. It has also been used to power large DC aircraft at various air shows.

The PS300 is compact and lightweight and able to power air conditioning on most business jets. It can be placed under the fuselage or wing of small aircraft or helicopters, freeing up hangar floor space.

The PS300 is fitted with three 100A power supplies connected in parallel. Power supply healthy LEDs are fitted to the front panel for diagnostics. When pressed, the emergency stop button immediately disconnects power to the aircraft.

The front-mounted quick-disconnect output connector allows leads of different configurations to be instantly connected to the unit. Key-switch input voltage selection allows operation at either 180–264V AC three phase or 311–457V AC/47–63Hz three phase for international use. A solid state voltmeter and ammeter displays the output voltage and current, enabling operators to monitor the current draw of avionics and other pre-flight loads. Supplied with NATO lead set, input lead and heavy-duty canvas protective jacket.

1 Phase EC3 .....P/N 11-18675 ..... ---
3 Phase EC1 .....P/N 11-18673 ..... ---
3 Phase EC2 .....P/N 11-18674 ..... ---

POWERVAMP GA PACK KITS

A tough, budget-priced, dual voltage GPU designed for the private operator and general aviation, it uses the same top-quality, high discharge batteries as in other Powervamp packs.

Ideal for smaller turbine helicopter operators, all piston aircraft or where the starting of 24 volt trucks and plant and 12 volt automobiles is a useful feature.

The deep drawn polyethylene case allows the pack to sit in flooded sites up to 200mm (8in) deep without water ingress. The 12 volt outlet provides a CCA of 470 amps and a peak amp figure of 925. The 25.4 volt DC outlet will deliver up to 850 amps with power control by removable key and 1000 amp switch.

This pack is supplied with 2m (6ft) output lead with rubber Nato plug and 2m (6ft) output lead with 1000 amp cast brass, braided and fully insulated, 'Vulture beak' colour-coded alligator clips. It is cleared for air transportation with key removed.

Connector	Length	Model	Part No.	Price
Aircraft Connector	6.5'	USA	11-18487	---
Croc Clip Output	6.5'	USA	11-18489	---
Piper Connector	6.5'	USA	11-18491	---
Aircraft Connector	13'	USA	11-18488	---
Croc Clip Output	13'	USA	11-18490	---
Piper Connector	13'	USA	11-18492	---
Aircraft Connector	6.5'	International	11-18493	---
Croc Clip Output	6.5'	International	11-18495	---
Piper Connector	6.5'	International	11-18497	---
Aircraft Connector	13'	International	11-18494	---
Croc Clip Output	13'	International	11-18496	---
Piper Connector	13'	International	11-18498	---

SEE OUR WEBSITE FOR COMPLETE SELECTION OF POWERRVAMP PRODUCTS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RED BOX POWER UNITS

Red Box Model	Description	Part Number	Price
START UNITS, LEAD ACID			
RB25A-12	RED BOX - 12V HAND PORTABLE START UNIT	11-09806	---
RB25A-24	RED BOX - 24V HAND PORTABLE START UNIT	11-09807	---
RB50A-12	RED BOX - 12V HAND PORTABLE START UNIT	11-09814	---
RB75A-24	RED BOX - 24V HAND PORTABLE START UNIT	11-09820	---
RB60A-28	RED BOX - 28V HAND PORTABLE START UNIT	11-15545	---
RB85A-28	RED BOX - 28V HAND PORTABLE START UNIT	11-15546	---
RB50AT-24	RED BOX - 24V TWIN RB50A PORTABLE START UNIT	11-15547	---
RB60AT-28	RED BOX - 28V TWIN RB60A PORTABLE START UNIT	11-15548	---
RB85AT-28	RED BOX - 28V TWIN RB85A PORTABLE START UNIT	11-15549	---
RB75AT-24	RED BOX - 24V TWIN RB75A PORTABLE START UNIT	11-15550	---
TC400A/28C	95A for 1 hr; 55A for 2hr; 39A for 3hr. Max Current 5200A/3500A nominal	11-15561	---
START UNITS, LITHIUM			
RBL2500-28	RED BOX - HAND PORTABLE LITHIUM START UNIT	11-15551	---
RBL4000-28	RED BOX - HAND PORTABLE LITHIUM START UNIT	11-15552	---
RBL4000-28TWIN	Thermal bag for Twin RBL4000 (Included w/ new RBL4000 Twin system)	11-15553	---
SWITCHABLE START UNITS (12V AND 24V)			
RB25A 12/24	RED BOX- SWITCHABLE 12V AND 24V- LEAD ACID	11-15554	---
RB50A 12/24	RED BOX- SWITCHABLE 12V AND 24V- LEAD ACID	11-15556	---
CONTINUOUS DC POWER SUPPLY			
RBPS25	RED BOX - 14/28V 25AMP POWER SUPPLY	11-09824	---
RBPS50	RED BOX - 14/28V 50AMP POWER SUPPLY	11-09825	---
RBSC100	RED BOX - 14/28V 100AMP POWER SUPPLY	11-09827	---
HYBRED, COMBO START & CONTINUOUS (* START POWER IS FROM BATTERIES, CONTINUOUS POWER FROM ENGINE)			
HYBRED/170-4	RED BOX - COMBINATION START AND CONTINUOUS POWER UNIT	11-15562	---
CONTINUOUS POWER FROM BATTERIES, START POWER TOO			
TC400A/28C	95A for 1 hr; 55A for 2hr; 39A for 3hr. Max Current 5200A/3500A nominal	11-15561	---
ACCESSORIES, EXTRAS & OPTIONS			
CART/TROLLEY FOR TWIN AN SINGLE START UNITS			
ETOL50FPS	Single Trolley for RB50A and RB75A and RB60A and RBL4000	11-09817	---
RE-CELL KITS FOR "RESALE" CAPACITY MATCHED BATTERIES			
TCEL30GSET	RE-CELL FOR RB50A	11-09818	---
TCEL40GSET	RE-CELL FOR RB75A	11-09823	---

RED BOX START POWER RB25A POWER UNITS

These power packs are designed for starting of piston, turboprop or turbine aircraft and helicopters in the field or in remote locations and Red Box units may be carried safely on board all aircraft. The power packs are "all weather" units and being modular, can be used in single or dual format. They can be used or stored in any orientation, even inverted. Cells used are cleared as non-hazardous cargo for carriage in the aircraft. They are able to operate in extremes of temperature and have excellent standby characteristics. They are maintenance free and do not require cycling. They can be re-celled "on condition" at any Red Box service center in the world and are designed to give years of repeated service. In addition to aviation, these highly portable units can be used with Armored Fighting vehicles and Military equipment. They can be recharged from the automatic charging system, which is supplied in the package, or from any vehicle using a suitable interface.

Model	Description	Part No.	Price
RB25A	12V Power Unti	11-09806	---
RB25A	24V Power Unit	11-09807	---
RB50A	12V Power Unti	11-09814	---
RB75A	24V Power Unit	11-09820	---

RED BOX CONTINUOUS POWER UNITS

Compact, lightweight and highly portable power units. Red Box systems may be carried safely on board all aircraft.

They are designed to give continuous high quality DC power for crew training, aircraft servicing in the workshop, on the ramp or in the field. This continuous power supply is ideal for diagnostic work, pre-flight checks or for continuous powering of equipment during operations, without draining the onboard aircraft batteries. There is a range of built in safety features and the units are simple to use. This switchable unit will produce a steady 14.4 or 28.8 Volts up to the fully rated output current with power factor correction. The power supplies are multi-fan cooled with built-in thermal management for operation up to 50°C ambient environments. The safety features include over current and short circuit protection. The power modules conform to EMC standards for noise emissions and immunity.

Model	Description	Part No.	Price
RBP525	25 Amp Power Unit	11-09824	---
RBP550	50 Amp Power Unit	11-09825	---
RBPS100	100 Amp Power Unit	11-09827	---

IFDR USB POWER SUPPLIES FOR INSTRUMENT PANEL

Approved for FAA Certified Part 23 Aircraft and Part 27 and 29 Rotorcraft. Smartphones / iPhones / Cell and Mobile Phones. Tablets and iPads. GPS Units. Cameras / GoPros. GPS Receivers / Augmenters. 2.1 amps (Output Current). Input Voltage: 9 - 48 VDC. Output Voltage: 5 VDC +/- 0.25 (10 watt). Green LED Internal Backlight. Weight: 2.6 ounces. **Dimensions**: 1.5" W x 1.5" H x 2.1" D (panel cut 0.785" x 0.785"). One year limited warranty.

Description	Part No.	Price
Single USB Power for Remote Mount	13-19299	---
Single USB Power for IFDR Panel Mount iPads	13-19301	---
Dual USB Power for Round Panel Mount	13-19775	---
Dual USB Power for Remote Mount	13-19304	---
Dual USB Power for IFDR Panel Mount iPads	13-19306	---

BATTERY CAPACITY TESTER BC-9000

The BC 9000 has been designed to provide the operator with ac

Charger Features include: • Universal AC power input 90~264vac (47 to 63hz) • Adjustable DC output from 3.0 to 36.0 Vdc (0.1 steps) • Adjustable DC Current Output from 0.05 to 25Adc • Constant Voltage or Constant Current Charge • Adjustable charge time from 1-999 min • Single or two step charge routine. • 4 line LCD display • Removable DC Charge Cord • Fan Cooled • 14.00" L (335.6mm) 9.250" W (234.6mm) • 9.50" H (241.3mm) 14lbs (6.350kg) .....P/N 11-15071 ..... ---

TRUE BLUE TB17 LITHIUM-ION BATTERY

The TB17 Advanced Lithium-ion Battery uses the most sophisticated lithium-ion chemistry available, providing aviators with an unmatched advantage of power, safety, life and energy.

Ideal for the piston, turbine, and emergency power market, the TB17 starts the aircraft's engine quickly and features superior energy density — Nanophosphate® lithium-ion cells offer 3x the energy per kilogram, resulting in a battery that is 45% lighter than lead-acid or nickel-cadmium alternatives.

This advanced battery system is engineered to deliver an overall lower cost of ownership with a 2-year maintenance schedule, efficient engine starts, extended useful life and intelligent battery status communication to the cockpit .....P/N 11-15375 ..... ---

FLYSAFE BATTERY SAFETY ENCLOSURE

We all love our portable electronic devices - but they can also be a potential fire risk in the event of a catastrophic Lithium battery failure. This can happen from battery abuse (exposure inside a hot aircraft) or battery cell failure inside the device. When a battery fails it can immediately reach temperatures north of 1000 degrees. In flight this could become smoke or fire in the cockpit – both are a serious problem. But don't worry - we have a solution! FlySix Aviation Products offers you the FlySafe, a fire resistant encapsulated container to store both your Lithium-based batteries while in flight. Prevent Thermal runaway and thermal abuse by preventing overheating and high temperature exposure. In the event of a sudden combustion, airflow to the battery device is minimized helping to choke the air supply, plus our 1200degree heat and flame resistant material protects your airframe buying you critical time to get your plane on the ground and handle the event. Fully zipped enclosure helps keep the smoke inside, and the air outside the container along with a thermal barrier to protect your airframe and passengers. The insulative properties also help keep batteries cool inside a hot airplane, helping to prevent a situation knowns as Thermal Abuse.....P/N 13-24409 ..... ---

CHARGEMASTER 1 AMP SELECTABLE 6 OR 12 VOLT BATTERY CHARGER

Schauer 1A, 6V/12V Automatic Battery Charger / Maintainer – Model CM1A • Fully Automatic Battery Charger / Maintainer / Conditioner • 1 Amp, 6 or 12 volt • LED charging indicator lights • 10 ft. charging cable • Battery Clips and Ring Terminal connections included – quick disconnect • Reverse Polarity, Short Circuit, Output Overload & Internal Overheat protection 3.9" x 2.6" x 1.5", 1.5 lbs • For any type Lead Acid battery – wet, VRLA, Gel, AGM • UI, cUI, BC approved.

P/N 11-14320 ..... ---

CHARGEMASTER SMART CHARGE PLUS MAINTENANCE

Schauer ChargeMaster 6A max., 12V Multi-Current Automatic Charger / Maintainer – Model CM6A • Fully Automatic Battery Charger / Maintainer / Rejuvenator • Selectable Charge Rate: 1 / 4 / 6 amp • Selectable Charger Voltage: 14.1 / 14.4 / 14.7 VDC (match to battery manufacturer specifications) LED Charging indicator lights • 7 Charging Modes: Soft Start, Bulk Charging, Absorption, Equalization, Analysis, Float, Maintenance • Battery Clips and Ring Terminal connectors – quick disconnect Reverse Polarity, Short Circuit, Internal Overheat and Timer protection • Eco energy saving mode • Battery Rejuvenation for batteries in poor condition / Sulphated (US Patented) • 7.5" x 3.8" x 2", 2.4 lbs. • For any type Lead Acid battery – wet, VRLA, Gel, AGM • UL, cUL, BC approved.

12V 1/4/6 Amp.....P/N 11-14332 ..... ---

12V 1/8/12 Amp.....P/N 11-14333 ..... ---

EARTHX LITHIUM BATTERIES

Note: Not FAA Approved. Intended for use in experimental aircraft only. This battery is intended for 550ci engine size or more; 120 amp alternator/generator or less. Can be used in experimental aircraft just match up the alternator output with the correct battery. This battery is fully protected by an integrated battery management system (BMS) that protects the cell's from over discharge, over charge, short circuit, temperature, plus cell balancing to ensure charge levels are equal.

Model	Volts	1 Hr 1C Rate	Crank Amps (PCA/ CCA)	Wt.	Case Size L x W X H (In.)	Part No.	Price
ETX680 76MM	13.2	12.4	680/320	4.1 lb	6.5 x 3 x 6.6	11-20169	---
ETX680C	13.2	12.4	680/320	3.9 lb	5.9 x 4.5 x 3.9	11-14292	---
ETX900	13.2	16	900/420	5.0 lb	6.5 x 3.1 x 6.6	11-13926	---
ETX900-24	26.4	15.6	840/400	8.9 lb	6.5 x 5.1 x 6.6	11-16601	---
EXT1200	13.2	24.8	1200/600	7.7 lb	6.6 x 3.4 x 6.9	11-13930	---
ETX900-VNT	13.2	16	840/400	5.4lb	6.5 x 3.1 x 6.6	11-16211	---

EARTHX ETX680 26.4 VOLT LITHIUM AIRCRAFT BATTERY

Note: Not FAA Approved. Intended for use in experimental aircraft only WITH turbine engines up to 900hp or piston engines up to 550ci. Designed for piston engines up to 550ci, max alternator output of 70 amps . If used for ONE turbine engine, you must have 2 batteries connected in parallel.

P/N 11-18681 ..... ---

EARTHX ETX680 24V LITHIUM AIRCRAFT BATTERY - FOR CERTIFIED AIRCRAFT

Note: The FAA approved 24V ETX680-24-TSO designed for certified aircraft! We do not have any STC's yet so you will have to attain your own field approval to install it. This battery can be used in an aircraft that has an alternator/generator with 70 amps output or less. This battery has electronic protections (BMS) and built in thermal runaway containment and venting ability built in. The ETX680-24-TSO meets all of the DO-311a and DO-160 requirements for a lithium battery in aircraft.....P/N 11-18796 ..... ---

EARTHX ALUMINUM BATTERY BOXES

EARTHX FOR ETX680 / ETX900 / ETX1200

Aluminum battery box designed specifically for the ETX680, ETX900 series of EarthX batteries. This battery box was engineered to be strong enough to withstand 30 G of force yet only weighs 7 ounces or 198 grams and will fit the ETX680 and ETX900 like a glove. This unique design allows for simple, easy installation with the dimensions: 6.5" L x 3.1" W x 6.6" H.....P/N 11-14074 ..... ---

EARTHX COMPACT BATTERY BOX

This is a custom designed aluminum battery box designed specifically for the EarthX lithium battery ETX680C or any of the "C" cased batteries (ETX24C, ETX36C). This battery box was engineered to be strong enough to withstand 30 G of force yet only weighs .15Kg or 5.3oz and will fit your battery like a glove. This case fits all "C" battery models.

P/N 11-17403 ..... ---

EARTHX THERMAL BATTERY BOX

The EarthX thermal battery box is designed to protect the battery in engine compartment installations from periods of high temperature (up to 1 hour), such as after shutdown, and from radiant heat from hot surfaces like exhaust systems during and after flight. This stainless-steel box has a mirror finish to minimize the effect of radiant heat, and it has a high-performance insulating foam layer between the box and battery to reduce effect of convection heat. The hold-down tab comes with a mounting fixture that can hold a cooling air duct up to 1" in diameter. This battery box was engineered to be strong enough to withstand 30 G of force yet only weighs 1 pound. It has the same mounting holes as the custom battery box or the multi-use battery box. This battery box is designed to be compatible with our existing "E" case battery models; ETX680/900/1200.....P/N 09-05653 ..... ---

EARTHX ETX900-TSO-CUB-KIT

Approved STC installation kit to be used with corresponding STC Aircraft approval for CC18-180, CC18-180A, CC19-180 and CC19-215.

P/N 11-20341 .....

EARTHX ETX-900 TSO 14V AIRCRAFT LITHIUM BATTERY

FAA Required Statement: The conditions and test required for TSO approval of this article are minimum performance standards. Those installing this article either on or within a specific type or class of aircraft must determine that the article installation conditions are within the TSO standards. The article may be installed only according to 14 CFR part 43 or the applicable airworthiness requirements." EarthX is excited to update and upgrade one of the oldest technologies still used in general aviation with the FAA TSO approved ETX900-TSO model lithium battery! This lithium iron phosphate battery will provide you a massive weight savings, increased life span, and more cranking power. The FAA approved 12V ETX900-TSO designed for certified aircraft. An STC or DER assisted Part 337 (field approval) is required for installation .....P/N 11-18242 ..... ---

QUIET POWER CHARGERS

The QUIET POWER® QP™-100 Series Dual USB Charging Port is designed specifically for aircraft cockpit and cabin installation and is compatible with both standard and high-power USB. Simultaneously charges two USB powered devices, including cell phones, tablets, radios, ADS-B receivers and GPS devices. An Auxiliary Charging Port is available in the QP101-QP104 series products, producing 5, 9, 11 or 12 Volts DC. USB port is dual 5 VDC. Input Voltage Range 10–36 VDCon QP-100, 101 & 102. It is 13.2-36 VDC on Q 103 & 104.

Part No.	Description	Price
11-13834	Non Lit No Aux Qp-100	---
11-13835	Lit No Aux Qp-100l	---
11-13836	Non Lit 5 Volts Qp-101	---
11-13837	Lit 5 Volts Qp-101l	---
11-13838	Non Lit 9 Volts Qp-102	---
11-13839	Lit 9 Volts Qp-102l	---
11-13840	Non Lit 11 Volts Qp-103	---
11-13841	Lit 11 Volts Qp-103l	---
11-13842	Non Lit 12 Volts Qp-104	---
11-13843	Lit 12 Volts Qp-104l	---

QUIET POWER CHARGING CABLE KITS

Auxiliary Charging Port for the Quiet Power Chargers. Auxiliary Charging Port Kit comes compete with a device specific charging cord and a barrel power jack (2.5mm ID x 5.5mm OD). The barrel power jack is designed to be panel mounted, allowing for quick disconnect of the charging cord.

Model	Plug	Plug Size	Cable	Part No.	Price
QPC-001	Barrel	2.5mm ID x 5.5mm OD	4	11-13844	---
QPC-002	Barrel	2.1mm ID x 5.5mm OD	4	11-14451	---
QPC-003	Barrel	1.3mm ID x 3.5mm OD	4	11-14452	---
QPC-004	Barrel	1.7mm ID x 4.0mm OD	4	11-14453	---
QPC-005	Barrel	1.7mm ID x 4.75mm OD	4	11-14454	---
QPC-006	Barrel	0.9mm ID x 3.2mm OD	4	11-14455	---
QPC-007	Barrel	3.3mm ID x 5.5mm OD	4	11-14456	---

EARTHX LED FAULT LIGHT INDICATORS

Easily see if you have a battery fault with this 5mm Red LED light for your EarthX experimental aircraft. The LED has a built in resistor for easy installation and compatibility with a 10-15V electrical system. Details installation directions are located in the EarthX manual but it is very simple. To install, connect red wire to a positive bus connection, connect the black wire to fault monitoring wire (also black) that is located on the EarthX battery.

10-15V.....P/N 11-17281 ..... ---

26.2-29.2V.....P/N 11-17286 ..... ---

EARTHX EMERGENCY JUMP PACK CHARGER

48" Long Quick Connect Charging/Jump Start Cables. You can permanently install this quick connect cable to your battery (lead acid or lithium) that can be used for quick, easy access for charging or be used with a portable jump starter (not included) to jump start your battery in seconds!

P/N 11-15073 .....

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START PAC® STARTERS - POWER SUPPLIES

START PAC® PORTABLE STARTING UNITS

The new patent pending Start Pac QC models have separate removable batteries that can be changed in 15 seconds. This feature allows the user to change the batteries in the field without needing to send the Start Pac back to the shop or manufacturer. Batteries have no memory effect and can be recharged at anytime. Made in the USA. Certain aircraft will allow the ship's generator to back charge a GPU. In this manner, Start Pacs can be recharged in the field without an AC source indefinitely.
NOTE: When storing the Start Pac for more than 30 days, remove the battery pack from the charging unit and store separately.

MODEL 1324-1 QC

• 13 AMP hours @ 10 Amp Hour Rate • 1300 AMPS Peak Current complete with built in charger, power plug and cables • 15.5"x4"x11.75" • 35 LBS. Complete • Units are 24 VDC output with a universal charger that will accept 90-240 VAC 50/60 hertz. Will start turbine or piston engines up to 500 horse power. Has a 4.5 amp charger and will provide a charge time of approx. 4 hours. Will give two to three starts between charges. This portable unit is mainly designed for emergency starting in remote locations. This unit is not designed for repeated daily starts or maintenance functions.
1324-1 QC ..... P/N 11-04538 ..... ---
1324-1 QC-RBS (Battery Set) ..... P/N 11-07231 ..... ---

MODEL 2300 QC

Built in chargers, power plug and cables. 24/26 VDC output, with universal chargers that will accept 90-240 VAC 50/60 hertz. • 26 AMP hours @ 10 Hour Rate • 2300 AMPS Peak Current • Trolley available • 19.2"x7.5"x11.5" • 69 LBS. Complete. For starting engines up to 1500 horse power and give four to six starts between charges. This unit has a dual redundant 4 amp chargers. When plugged into an AC source, 8 amps at 28VDC, is available for maintenance functions without depleting the batteries. Recharge time is approx. 3-1/2 hours.
2300 QC ..... P/N 11-06780 ..... ---
2300QC-B (Batteries) ..... P/N 11-06781 ..... ---

MODEL 6028 QC

All In One air portable/carry-on START PAC® with built in chargers, power plug and cables. Units are 28.5 VDC output, with universal chargers that will accept 90-240VAC 50/60 hertz. 26 AMP hours @ 10 Hour Rate. 2300 AMPS Peak Current. Available with separate trolley.19.2"x7.5"x11.5". 77 LBS. Complete.
6028 QC ..... P/N 11-06783 ..... ---
6028 QC-B (Batteries) ..... P/N 11-07189 ..... ---

MODEL LI2800 QC

A full 28VDC battery pack and will provide superior starts on all electrically-started turbine engines. It has dual, redundant chargers with a total of 7 amps output and a recharge time of approximately 4 hours. • 28 AMP hours @ 10 Hour Rate • 2400 AMPS Peak Current • L 19.2" x W 7.5" x H 9.75" • 46 LBS. Complete. Utilizes the latest technology in Lithium batteries. (can be left in a completely discharged state without causing damage)
Li2800 QC ..... P/N 11-06782 ..... ---
Replacement Battery ..... P/N 11-17613 ..... ---

START PAC® ONE™

START PAC® ONE™ The smallest and lightest 26V micro starting unit for aircraft on the market, this light duty air portable/carry-on START PAC® Lithium-ion weighs only 12lbs/5.4kg. Providing emergency starts for turbine or piston engines, this unit is designed for engine starting only. Designed to be used with voltage sensitive aircraft that cannot accept 28V external starters, this START PAC ONE jump-starting system is small but mighty. This START PAC® will provide a faster and cooler engine start than most ship's aircraft batteries (the turbine is spooled to more revolutions per second before fuel is injected). Thus, turbine life will be extended because there is less stress on the starter and other engine components. This will preserve the aircraft's costly batteries and help lower operating costs. Your on-board battery can then be saved for emergency use only.
P/N 11-14192 ..... ---

QUICK CHANGE TROLLEY

The Start Pac® QC trolley is a light weight accessory for either the Start Pac® Models 1324-2QC, 1628QC, 2300QC or the 6028QC
P/N 11-06775 ..... ---

START PAC® POWER SUPPLIES

The entire aircraft electrical system can be powered up for GPS programming and electrical maintenance. Thus the on board aircraft battery can be saved for starting. Do not use for starting as starter motors require far more amperage than is available from the StartPac® Portable Power Supply. Not for battery charging. Made in the USA.

MODEL 53025

This START PAC®'s maximum amperage output is 50 amps which is more than adequate for powering up various systems such as GPS and avionics programming. It is also an excellent choice for powering the aircraft's maintenance equipment bypassing the aircraft battery and thus preserving it from unnecessary wear. This means that the on board aircraft battery is conserved for starting only. The environmentally responsible, low VOC powder coating protects the unit from wear, tear and poor weather conditions. **Features:** • Smallest and lightest portable aircraft power supply in the world • No duty cycle, clean continuous power • Resistant aluminum case with environment friendly, low VOC durable powder coat finish, easy to handle, built for heavy duty usage
Standard Plug 53025 - 12V ..... P/N 11-04536 ..... ---
Standard Plug 53025 - 24V ..... P/N 11-06833 ..... ---

MODEL 53050

Specifications: • No duty cycle, output voltage 28.5 VDC • AC input is universal 90-240 Volts. • Over current protection • Over voltage protection • Over temperature protection • Forced air-cooling • **Dimensions**: Wt. 10 lbs./4.54 kilos 14" X 5.25" X 5.50". A 28.5 Volt continuous DC power supply when plugged into 110/220 Volt single phase AC power. Will deliver full 50 amp DC output continuously, but will not provide enough current for aircraft engine starting or mining equipment starting.
53050 ..... P/N 11-06833 ..... ---

MODEL 53105

Specifications: • Maximum continuous 105 amps +5%. No duty cycle • AC input 190-240 Volts • Over current protection • Over voltage protection • Over temperature protection • Forced air cooling • 8 foot power cable • Weights 26 lbs./11.80 kilos complete with power cable • 14.5"x7"x13.75". A 28.5 Volt continuous DC power supply when plugged into 220Volt single-phase AC power. Will deliver full 105 amp DC output, but will not provide enough current for engine starting.
53105 ..... P/N 11-06834 ..... ---

START PAC® GROUND POWER UNITS

The following dimensions apply to each of the 3300s: 38"x21"x20" Handle Height 48". Avoid discharging the batteries completely as damage can result.

MODEL 3324

Combination power supply and battery pack. **Batteries**: • 78 Amp Hours at 10 hour rate • 24 Volt DC - 25.5 Volts at rest Sealed cells non- hazardous Valve regulated high amperage output lead acid * 3200 Peak Amps Power supply / charger: • Multi- unit 58 Amp DC continuous output • 28 - 28.5 Volt output from 0 - 58 amp load • Battery recharge time from fully discharged - 2 hours • AC Input - 110 Volt or 220 Volts (only 1) Limitations: 200 amps maximum DC load.
3324 ..... P/N 11-07225 ..... ---
3324-RBS (Battery Set) ..... P/N 11-07234 ..... ---

FOR ADDITIONAL GROUND POWER UNITS PLEASE CALL OR VISIT OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM

START PAC QUICK CHARGE GROUND POWER UNIT

These ground power units are designed to perform starting, powering up aircraft systems and maintenance functions. When connected to AC power, the depleted batteries can be charged in a matter of hours with the built in power supply/battery charger.

Volts	Amps	Part No.	Price
24	105	11-14338	---
24	200	11-14339	---
24	300	11-14340	---
28	400	11-14341	---
28	105	11-14342	---
28	200	11-14343	---
28	300	11-14344	---
28	400	11-14345	---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

START PAC® STARTERS - POWER SUPPLIES

START PAC LI2600QC STARTER 26VDC

The all new Patent Pending Start Pac model Li2600QC utilizes the latest technology in Lithium batteries. These batteries provide the same power as the lead-acid type but are 42% lighter and 32% smaller. In addition, lithium batteries have two other major advantages: twice the battery life of lead-acid batteries and no sulphation problems (can be left in a discharged state without causing damage to the battery plates). This compact portable Lithium Ion starting unit is a full 26VDC battery pack and will provide superior starts on small to medium size turbine engines. It has a built in charger with a total of 4.0 amps output and a recharge time of approximately 6 hours. This unit is especially designed for aircraft that will not accept a full 28 volt battery pack (actually reads 30-31 volts). Aircraft such as the Phenom 100 and Eclipse 500 will accept this 26 volt unit (actually reads 28.5 volts) ....P/N 11-09515 ..... ---

START PAC LI2000QC STARTER 28.5VDC

The all new Patent Pending Start Pac model Li2000QC utilizes the latest technology in Lithium batteries. These batteries provide the same power as the lead-acid type but are 42% lighter and 32% smaller. In addition, lithium batteries have two other major advantages: twice the battery life of lead-acid batteries, no sulphation problems (can be left in a discharged state without causing damage to the battery plates). This compact portable Lithium Ion starting unit is a full 28VDC battery pack and will provide superior starts on small to medium size turbine engines. It has a built in charger with a total of 3.5 amps output and a recharge time of approximately 6 hours .....P/N 11-09516 ..... ---

START PAC LI2800QC TWIN PAC STARTER, 28.5VDC

The all new Start Pac Model Li2800 QC Twin Pac utilizes the latest technology in Lithium Batteries. These batteries provide the same power as the lead-acid type but are 42% lighter and 32% smaller. The multi-purpose Li2800QC Twin Pac can be easily broken down into 2 separate units for easy transport and shipping. In addition, lithium batteries have two other major advantages: twice the battery life of lead-acid batteries, no sulfation problems (can be left in a discharged state without causing damage).
This powerfully versatile Lithium Ion Twin Pac starting unit is a full 28VDC battery pack and will provide superior starts on all electrically-started turbine engines. It has dual, redundant chargers with a total of 7 amps output and a recharge time of approximately 4 hours.
P/N 11-09517 ..... ---

START PAC LI2700QC STARTING UNIT

This compact portable Lithium Ion starting unit is a full 26VDC battery pack and will provide superior starts on all electrically-started turbine engines. It has dual, redundant chargers with a total of 9 amps output and a recharge time of approximately 4 hours. The engineers at Start Pac specifically designed the Li2700QC Lithium aircraft starter for aircraft with over voltage protection relays that are set lower than most aircraft so that they can not accept more than 29.5 volts from an external starting source. Some of these aircraft include the Agusta Westland AW139, Sikorsky S-76, Eclipse 500, Phenom 100 and Phenom 300. This unit is designed for engine starting only.
Specificatons: • 31 AMP hours @ 10 Hour Rate • 2400 AMPS Peak Current • L 19.” x W 7.5” x H 9.75”/ L 49cm x W19cm x H29cm • 46 lbs./20.8 kg Complete weight with built in charger and aircraft cable • Not to be used as an aircraft battery charger.....P/N 11-14709 ..... ---

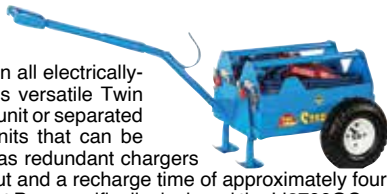
START PAC MODEL 6028QC TWIN PAC - 28V

This powerful portable 28 volt aircraft starter unit is a full 28VDC battery Twin Pac and will provide superior starts on all electrically-started turbine engines. This versatile Twin Pac can be used as a single unit or separated for two complete units that can be easily carried on board different aircraft. The 6028QC twin pack has redundant chargers with a total of 14 amps output and a recharge time of approximately four hours. **Note**: This unit is designed for engine starting only.....P/N 11-17717 ..... ---

START PAC MOBILE SUPPLY MODEL 53400 - 28.5V

Start Pac® Model 53400 is a 28.5 Volt continuous DC power supply when plugged into 220Volt single-phase AC power. This unit will deliver full 400 amp DC output, but will not provide enough current for engine starting. Therefore this unit is designed for maintenance and to power up various functions such as inverters, avionics, GPS, and air conditioning.
Note: This unit is NOT designed for engine starting or battery charging.
P/N 11-17746 ..... ---

START PAC LI2700QC STARTING UNIT TWIN PAC



This powerful Lithium Ion starting unit is a full 26VDC portable battery pack and will provide superior starts on all electrically-started turbine engines. This versatile Twin Pac can be used as a single unit or separated for two complete Lithium units that can be easily carried on board. It has redundant chargers with a total of 18 amps output and a recharge time of approximately four hours. The engineers at Start Pac specifically designed the Li2700QC as an airplane starting unit with voltage protection relays that are set lower than most aircraft so that they cannot accept more than 29.5 volts from an external starting source. Some of these aircraft include the Agusta Westland AW139, Sikorsky S-76, Eclipse 500, Phenom 100 and Phenom 300. This unit is designed for engine starting only. **Specifications**: • 31 AMP hours @ 10 Hour Rate • 62 AMPS Peak Current • 2400 AMPS Peak Current • L 38.4” x W 7.5” x H 9.75”/ L 98cm x W19cm x H29cm • 120 lbs./ 55 kilos Complete with Twin Pac trolley • Not to be used as an aircraft battery charger .....P/N 11-14749 ..... ---

START PAC MINI PORTABLE POWER SUPPLY MODEL 53050 - 12V

This Start Pac® Portable Power Supply is a 12 Volt output unit. This unit is ideal for powering up aircraft cockpits. When utilizing this mini power supply, the aircraft electrical system can be powered up for GPS programming and light duty maintenance, bypassing the aircraft battery and preserving it for starting. The Start Pac® Portable Power Supply model 53050/12 is designed to power up 12 Volt aircraft systems. The voltage output is set to 14.2 Volts to simulate the same voltage as when the aircraft is running under power. Maximum amperage output is 50 amps which is adequate for most light aircraft. If overloaded, the 53050/12 will trip off and reset itself after a short period of time. This unit is ideal for powering up new and old aircraft with glass cockpits. **Note**: This unit is NOT designed for engine starting or battery charging.....P/N 11-10088 ..... **$740.00**

START PAC MINI PORTABLE POWER SUPPLY MODEL 53025 - 24V

This Start Pac® Portable Power Supply is a 24 Volt output unit and is ideal for powering up aircraft cockpits. GPS programing and other aircraft systems can be easily powered up by bypassing the aircraft battery to save it for engine starting. The Start Pac® Portable Power Supply model 53025/24 is designed to power up 24 Volt aircraft systems. The voltage output is set to 28.5 Volts to simulate the same voltage as when the aircraft is running under power. Maximum amperage output is 25 amps which is adequate for most light aircraft. If overloaded, the 53025/24 will trip off and reset itself after a short period of time. This unit is ideal for powering up new and old aircraft with glass cockpits. **Note**: This unit is NOT designed for engine starting or battery charging.
P/N 11-04537 ..... ---

START PAC MODEL LI3328QC SET

Start Pac® Model Li3328QC Set includes the model LI2800QC Twin Pac Starting and the model 53050 Power Supply.

Model LI2800QC Twin Pac Starting

This powerful Lithium aircraft starter unit is a full 28VDC battery Twin Pac and will provide superior starts on all electrically-started turbine engines. Versatile and highly portable, this Twin Pac can be used as a single unit or separated into two complete Lithium units that can easily be carried on board two different aircraft. The Lithium twin pack has redundant chargers with a total of 14 amps output and a recharge time of approximately four hours.

Model 53050 Power Supply

When plugged into 110/220 Volt single phase AC power, PAC® Model 53050 is a 28.5 Volt continuous DC portable power supply . Continually delivering full 50 / 105 / 200 / 300 / 400 amp DC output, this unit does not, however, provide enough current for starting an aircraft engine or mining equipment. Instead, it has been designed to power up various systems, such as programming GPS and avionics. The PAC® Model 53050 is also an excellent choice for powering aircraft maintenance equipment.

50 amp.....P/N 11-18184 ..... ---
105 amp.....P/N 11-18185 ..... ---
200 amp.....P/N 11-18186 ..... ---
300 amp.....P/N 11-18187 ..... ---
400 amp.....P/N 11-18188 ..... ---

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START PAC® STARTERS - POWER SUPPLIES

START PAC PRO UNIT FOR 28V AIRCRAFT

The Start Pac PRO is a very portable unit that is designed to be used as a safe and reliable jump-starting solution when aircraft batteries fail or are too weak to provide a satisfactory engine start. This lightweight solution is unique in that it addresses the requirements across both civil, commercial and military markets. The Start Pac PRO Jump Starting System can be used for helicopters and fixed wing aircraft as well as military UAVs. The Start Pac PRO comes standard as a complete set with a patent pending aircraft cable adaptor kit, proprietary charger and carrying case.

P/N 11-17718 ..... ---

START PAC AIRCRAFT MICRO GPU™– MODEL SUPER PAC™ 2326QC / 50

This 26V battery pack will provide superior starts on all aircraft, including voltage sensitive, electrically-started turbine engines that cannot accept a true 28V battery pack, such as the Eclipse 500, Phenom 100, Phenom 300, Agusta AW 139, Agusta AW109 and the Sikorsky S-76. It will also provide 50A continuous power for powering up aircraft systems.

110V ..... P/N 11-17719 ..... ---
220V ..... P/N 11-20695 ..... ---

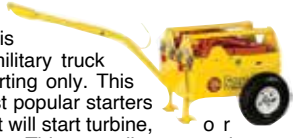
START PAC® PORTABLE STARTING UNIT - 26V 2326QC

All In One air portable/carry-on START PAC® with built in chargers, power plug and cables. This 26 Volt unit is designed for voltage sensitive aircraft that cannotaccept a true 28V external starter. This Start Pac will provide a faster and cooler engine start than most ship's aircraft batteries, thus extending turbine life which helps to lower operating costs. The 2326QC has dual redundant chargers with a total of 7 amps output with a recharge time of approximately 2-4 hours after having been depleted from multiple engine starts. Certain aircraft will allow the ship's generator to back charge a GPU. In this manner, Start Pac® can be recharged in the field without an AC source indefinitely. **Note**: When storing the Start Pac® for more than 30 days, remove the battery box from the charging unit and store separately ..... P/N 11-17715 ..... ---

START PAC® TWIN PAC 2326QC - 26V

This powerful portable 26 volt aircraft starter unit is a full 26VDC battery Twin Pac and will provide superior starts on all electrically-started turbine engines. This versatile Twin Pac can be used as a single unit or separated for two complete units that can be easily carried on board different aircraft. The 2326QC Twin Pac has redundant chargers with a total of 14 amps output and a recharge time of approximately four hours from being depleted. Note: This unit is designed for engine starting only. Note: When storing the Start Pac® for more than 30 days, remove the battery box from the charging unit and store separately ..... P/N 11-17716 ..... ---

START PAC® TWIN PAC PORTABLE STARTING UNIT - 24V 2300QC



This 24V All-In-One air portable/ carry-on START PAC® with built-in chargers, power plug and cables is ideal for starting aircraft, tank, and military truck engines. It is designed for engine starting only. This portable starting unit is one of our most popular starters for use at home base and in the field. It will start turbine, or piston engines up to 1500 horsepower. This versatile 24 volt Twin Pac can be used as a single unit or separated for two complete units that can be easily carried on board different aircraft. It is equipped with universal chargers that will accept 90-240 VAC at 50/60 hertz with a recharge time of less than 3.5 hours .....P/N 11-17714 ..... ---

START PAC® MICRO® HANDHELD 12V AIRCRAFT ENGINE STARTER

Handheld 12v DC Aircraft Engine Starter. Not only can the START PAC MICRO® be used for all 12V aviation applications (helicopters and fixed wings), but it will also jump start any type of engine running on 12V. This unit is specifically designed for engine starting only. This unit is the sturdiest 12V lead acid jump starter on the market, capable of starting either piston aircraft or experimental aircraft. Small, powerful and light weight, it will allow you to start your engines swiftly, preventing any downtime. The environmentally responsible, low VOC powder coating protects the case from wear and poor weather conditions .....P/N 11-17855 ..... ---

START PAC® GROUND POWER SUPPLY & STARTING UNIT - 26V 3326 SPECIAL

These StartPac GPUs are designed for ground use to perform repeated engine starting functions. When connected to AC power, the depleted batteries can be charged in four hours with the built-in battery chargers. This turbine starting unit is designed to provide repeated superior starting power for voltage sensitive turbine engines. The Model 3326 SpecialGPU is designed for repeated engine starting requirements on voltage sensitive aircraft. ..... P/N 13-22425 ..... ---

START PAC QUICK CHARGE GROUND POWER UNIT 26 VOLTS - 3326QC

The 3326QC -50 / -105 / -200 / -300 / -400 are a full 26 Volt starting unit that will give faster, cooler starts on voltage sensitive turbine engines. When plugged into 110 VAC or 220 VAC, the -50 / -105 / -200 / -300 / -400 Amp power supply is large enough to power various systems such as inverters, avionics and GPS. Always recharge immediately after use to achieve maximum battery life. Once charged, leave the unit plugged in. Avoid fully discharging the batteries as damage to the cells may result. To recharge the unit, simply plug it into an AC wall power outlet and leave it plugged in when not in use. The high tech proprietary chargers will maintain 100% battery charge without over charging the batteries.

Volts	Amps	Part Number	Price
26 Volt DC- 27.6 Volts	50	11-17722	---
26 Volt DC- 27.6 Volts	105	11-17723	---
26 Volt DC- 27.6 Volts	200	11-17724	---
26 Volt DC- 27.6 Volts	300	11-17725	---
26 Volt DC- 27.6 Volts	400	11-17726	---

START PAC® GPU 3324XL SPECIAL - 72V

This Start Pac GPU is designed for ground use to perform repeated engine starting functions on the ramp. The 3324XL Special unit is designed for electrically started standard and voltage sensitive turbine engines. Due to the size of the battery bank in this Start Pac engine starting unit, when the unit is depleted, recharge time may be as long as 7-9 hours. **Note**: Unit comes with two front wheels for added safety on non-truck mount version.

P/N 11-17737 ..... ---

START PAC GPU 3326XL SPECIAL - 26V

This Start Pac GPU is designed for ground use to perform repeated engine starting functions on the ramp. The 3326XL Special unit is designed for electrically started standard and voltage sensitive turbine engines. Due to the size of the battery bank in this Start Pac engine starting unit, when the unit is depleted, recharge time may be as long as 7-9 hours.

Note: Unit comes with two front wheels for added safety on non-truck mount version.

P/N 11-17857 ..... ---

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START PAC MODEL LI3326QC SET

The engineers at START PAC specifically designed the Li2700QC as an airplane starting unit for aircraft with voltage protection relays that are set lower than most aircraft, meaning that they cannot accept more than 29.5 volts from an external starting source. These aircraft include but are not limited to the Agusta Westland AW139, Sikorsky S-76, Eclipse 500 and both the Phenom 100 and Phenom 300.
This unit is designed for engine starting only.
Not to be used as an aircraft battery charger.
Do not charge in flight.
50 amp.....P/N 11-18179 ..... ---
105 amp.....P/N 11-18180 ..... ---
200 amp.....P/N 11-18181 ..... ---
300 amp.....P/N 11-18182 ..... ---
400 amp.....P/N 11-18183 ..... ---

POWERALL PORTABLE GROUND POWER UNIT

Portable power for hangar and ramp operations ranging from 25 to 50 Amp Continuous Power with up to 2400 Peak Amps for Starting.
Multi-Purpose and Powerful, the PA-4500 and PA-4500-100 are designed for optimum versatility providing constant, reliable power and up to 4500 Peak Amps for starting and maintaining a large variety of Turbine Powered Aircraft and Helicopters.
This powerful dual unit is the appropriate choice for large turboprops, mid-size turbofan-powered aircraft, and large helicopters. The PA-4500 is actually 2 PA-2400 units coupled together in parallel delivering up to 4500 Peak Amps for starting aircraft and helicopters with a higher amperage draw such as the Raytheon HS-125-800XP, Westwind, Brasilia 120, Lear 40 series, Jetstream 30 Series aircraft, and Agusta Westwind AW139 and Sikorski S76 Series Helicopters.
50 Amps .....P/N 11-17898 ..... ---
100 Amps .....P/N 11-17899 ..... ---

POWERALL COMPRESSOR WASH WAND

Powerall Compressor Wash Wand
P/N 11-19533 ..... ---

POWERALL TURBINE SECTION WASH TOOL

Powerall Turbine Section Wash Tool
P/N 11-19534 ..... ---

POWERALL PORTABLE GROUND POWER UNIT

The PA-2400 has been used in the field to start the following fixed-wing aircraft and helicopters:
All Beechcraft King Air Models, Beechcraft 1900 Series, Cessna Caravan 208, Citation 500 and 550 Series, Embraer Bandeirante 110, Piper Cheyenne Series, and Lear 20 Series. All Boeing/McDonnell Douglas Series helicopters, Agusta Series, Bell 205, 206, 407, 222, 230, 430 Series, Airbus Helicopters AS 350, EC120, BO105 and BK117 Series. The PA-2400-50 portable GPU has all the capabilities as the PA-2400, delivering up to 2400 Peak Amps for starting a wide variety of aircraft while providing up to 50 Continuous Amps for maintenance and pre-flight operations. This unit offers the same light-weight compact versatility as the PA-2400 and can be easily stowed in the aircraft luggage compartment when necessary. The PA-2400-50 is the optimum choice for Turbo Prop Aircraft and Turbine Helicopters with EFIS such as the Pilatus PC12, King Air Series, Eclipse 500, Bell 407, Airbus Helicopters EC135 and 145 helicopters and most light turbine helicopters, turboprops, and VLJ's with EFIS
25 Amps .....P/N 11-17897 ..... ---
50 Amps .....P/N 11-16658 ..... ---

POWERALL TW60 ENGINE WASH SYSTEM

PowerAll Systems manufactures two options of the TEWS products, the TW60 and the TW60AT. Both units are with hard-line plumbing and bulkhead fittings for durability and come with two, five-gallon fluid tanks and 25 ft. of hose. Fluid can be diverted from either tank, Solution or Water, with a valve on the faceplate of the unit. A pressure regulator and gauge allow for pressures ranging from 0-60 PSI which allows for use with a variety of aircraft engine manufacturers whose maintenance specifications for compressor and turbine wheel washes fall within these parameters. The TW60 utilizes shop air as its source. It is widely considered within the aircraft maintenance industry that regular engine washes greatly improve engine efficiency, reduce fuel consumption and extend engine life. The TW60 and TW60AT Turbine Engine Wash Systems (TEWS) are designed for use in the hangar or on the ramp.
TW-60 - Uses Shop Air as its Source..... P/N 11-17900 ..... ---
TW-60AT - Uses On-Board 5 Gal Compressed Air Tank / Shop Air
P/N 11-16659 ..... ---

POWERALL GROUND POWER UNITS

PAS-2400 • With Heavy-Duty Marine Grade AGM Lead Acid battery technology and large no-flat tires, the PAS-2400 ground power unit is designed to start a variety of Turbo Prop aircraft and Helicopters.
The PAS-2400 GPU provides up to 2400 Peak Amps for starting and up to 25 Continuous Amps for Maintenance/EFS Updates while plugged into a 110 or 220V AC source.
The PAS-2400 GPU has been used in the field to start the following fixed-wing aircraft and helicopters:
All Beechcraft King Air models, Beechcraft 1900 Series, Cessna Caravan 208, Citation 500 and 550 Series, Embraer Bandeirante 110, Piper Cheyenne Series and Lear 20 Series. All Boeing/McDonnell Series helicopters, Augusta Series, Bell 205, 206, 407, 222, 230 430 Series, Airbus Helicopters AS 350, EC120, BO105, BK117 Series.
PAS-2400-50 • The PAS-2400-50 ground power unit is the best choice for most turbo prop aircraft and helicopters with updated EFIS or "Glass Cockpit" systems installed. Delivering up to 50 continuous amps for EFIS and Maintenance Operations, and up to 2400 Peak Amps for starting, this unit is Powerall's most popular GPU model for FBO and Hanagar Maintenance operations.
PAS-2400 .....P/N 11-19531 ..... ---
PAS-2400-50 .....P/N 11-19532 ..... ---

D B ASSEMBLY BATTERY CHARGERS

D B ASSEMBLY APU BATTERY CHARGER AND POWER SERIES B-14/28-50

The P-1450 series plugs directly into the aircraft APU connector and is tied to the electrical system when the master switch is activated.
This ramp or hangar accessory is an absolute must for avionics service, gear and flap actuator exercising and other electrical system service.
The battery charging mode is selectable by a front panel switch. The charging process is fully automatic. When the charge is in progress a red LED is illuminated. This is replaced by a green LED when the aircraft battery is fully charged. The on/off switch on the unit also resets the unit.
Specifications: • 50 amperes filtered 14 & 28 volt supply • Dual charging capability from 14 to 28 volts • Aircraft APU connectors furnished • Operates from 115 VAC, 60 Hz • Weighs only 50 pounds. "Portable"

Description	Part Number	Price
APU Charger Only	11-18258	---
APU Charger Only w/ Piper Plug	11-18259	---
APU Charger Only (European)	11-18260	---

D B ASSEMBLY APU POWER SUPPLY SERIES P28100/1

The D B Assembly, Inc. P-28100 series is the latest to join the family of power supplies for commercial aircraft servicing.
This equipment will provide the amps needed for gear retraction tests as well as the filtered power for all types of avionics service.
The P-28100 series will furnish up to 100 amps at 28 VDC. It plugs into the APU connector on the engine cowling and automatically disconnects the battery so that it will not be drained by the servicing processes. A valuable ramp accessory.
Specifications: • 100 amperes filtered 28 volt supply • Aircraft APU connectors furnished • Portable, weighs only 64 lb.

Description	Part Number	Price
Power Supply Only	11-18285	---
Power Supply w/ Piper Plug	11-18286	---
Power Supply Only (Pilatus P12)	11-18287	---
Power Supply Only (Eclipse e500)	11-18288	---
Power Supply (Extra Meter)	11-18289	---

D B ASSEMBLY APU POWER SUPPLY SERIES P-14100

The D B Assembly, Inc. P-14100 is designed to operate avionics equipment for commercial aircraft servicing.
This equipment will provide the amps needed for gear retraction tests as well as the filtered power for all types of avionics service. The P-14100 will furnish up to 100 amps at 14 VDC. It plugs into the APU connector on the engine cowling and automatically disconnects the battery so that it will not be drained by the servicing processes
Specifications: • 100 amperes filtered 14 volt supply • Aircraft APU connectors furnished • Portable, weighs only 61 lb.

Description	Part Number	Price
APU Power Supply Only	11-18269	---
APU Power Supply w/ Piper Plug	11-18270	---
APU Power Supply Only (European)	11-18271	---
APU Power Supply w/ Piper Plug (European)	11-18272	---

D B ASSEMBLY APU POWER SUPPLY SERIES P-28100

The D B Assembly, Inc. P-28100 is designed to operate avionics equipment for commercial aircraft servicing.
This equipment will provide the amps needed for gear retraction tests as well as the filtered power for all types of avionics service.
The P-28100 will furnish up to 100 amps at 28 VDC. It plugs into the APU connector on the engine cowling and automatically disconnects the battery so that it will not be drained by the servicing processes.
Specifications: • 100 amperes filtered 28 volt supply • Aircraft APU connectors furnished • Portable, weighs only 64 lb.

Description	Part Number	Price
APU Power Supply Only	11-18282	---
APU Power Supply Only (European)	11-18283	---
APU Power Supply w/ Piper Plug (European)	11-18284	---

D B ASSEMBLY APU POWER SUPPLY SERIES R-14/28-25

The R-14/28-25 will output 14 or 28 volts DC at up to 25 amperes. The voltage is filtered to eliminate hum and is regulated against input AC line voltage changes.
The RB-14/28-25 plugs directly into the APU receptacle on the aircraft. It comes equipped with either the standard three-prong connector or the Piper coaxial connector. Both connectors can be supplied, optionally at a slight extra cost. DC cable length is 8'.
The AC line cord is normally 8' in length, but special lengths up to 50' are available.
The housing is steel, powder coated in red, for optimum flight line safety. Rubber feet and handle are included.
Specifications: • AC Line Voltage: 115v, 60 Hz. • AC Current Drain: 7 amperes maximum • DC Output: 14 or 28 volts, up to 25 amperes • Portable, weight only 35 lb. (16 Kg)

Description	Part Number	Price
APU Charger Only	11-18290	---
APU Charger Only w/ Piper Plug	11-18292	---
APU Charger Only (European)	11-18291	---
APU Charger (European) w/ Piper Plug	11-18293	---

D B ASSEMBLY APU BATTERY CHARGERS / POWER SUPPLY SERIES P-2850

This ramp or hangar accessory is an absolute must for avionics service, gear and flap actuator exercising and other electrical system service.
The P-2850 plugs directly into the aircraft APU connector and is tied to the electrical system when the master switch is activated.
The battery charging mode is selected by a front panel switch. The charging process is fully automatic. When the charge is in progress a red LED is illuminated. This is replaced by a green LED when the aircraft battery is fully charged. The ON/OFF switch on the unit also resets the unit.
The 14-volt version, P-1450 provides 50 amperes of filtered DC at 14 volts.
Specifications: • 50 amperes filtered 28-volt supply • Aircraft APU connectors furnished

Description	Part No.	Price
Power Supply Power Supply Only	11-18274	---
Power Supply Power Supply w/ Piper Plug	11-18277	---
Power Supply Power Supply Only (European)	11-18275	---
Power Supply Power Supply w/ Piper Plug (European)	11-18276	---
Battery Charger Power Supply Only	11-18273	---
Battery Charger Power Supply w/ Piper Plug	11-18281	---
Battery Charger Power Supply Only (European)	11-18279	---
Battery Charger Power Supply w/ Piper Plug (European)	11-18278	---
Battery Charger Battery Charger Only (Japan)	11-18280	---

D B ASSEMBLY APU BATTERY CHARGERS / POWER SUPPLY SERIES P-1450

The P-1450 series plugs directly into the aircraft APU connector and is tied to the electrical system when the master switch is activated.
This ramp or hangar accessory is an absolute must for avionics service, gear and flap actuator exercising and other electrical system service.
The battery charging mode is selectable by a front panel switch. The charging process is fully automatic. When the charge is in progress a red LED is illuminated. This is replaced by a green LED when the aircraft battery is fully charged. The on/off switch on the unit also resets the unit.
Specifications: • 50 amperes filtered 14 volt supply • Aircraft APU connectors furnished • 7 foot DC cable furnished

Description	Part No.	Price
Power Supply Power Supply Only	11-18263	---
Power Supply Power Supply Only (European)	11-18264	---
Power Supply Power Supply w/ Piper Plug (European)	11-18265	---
Battery Charger Battery Charger Only	11-18262	---
Battery Charger Battery Charger Only (European)	11-18266	---
Battery Charger Battery Charger w/Piper Plug	11-18268	---
Battery Charger Battery Charger w/Piper Plug (European)	11-18267	---

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WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AIRCRAFT JUMPER CABLES

Cable is heavy duty, 4 ga. copper, 20 ft. long, twin extruded to help prevent tangling, and room temperature flexible at 40 degrees below zero. Fully insulated clamps wont arc or spark and are rated 00-amp/600 peak, have a solid copper jaw, and have a flexispring strain relief to prevent cable breakage. Polarity light warns if clamps are connected incorrectly, preventing electrical system damage and personal injury. Available in two styles (above).

6141 - Jumper Cable with standard 3-pin Lexan female plug (equivalent to AN2551) on one end and alligator clamps on other end.
P/N 11-02952 ..... ---

6142 - Jumper Cable with special Piper single-pin plug on one end and alligatorclamps on other end.
P/N 11-02953 ..... ---

REPLACEMENT PAIR OF 500 AMP CLAMPS

Used on #6141 and #6142 jumper cables. (above)
P/N 11-06202 ..... ---

3 PIN JUMPER PLUG AN2551

Standard 3-pin female plug equivalent to AN2551 plug. Red Lexan construction screws together in minutes. Sleeves are solid copper, silver plated. With solenoid pin. Corrosion proof. Mates with AN2552-3A external power receptacle ..... P/N 11-03158 ..... ---

PLUG & JUMP

The Plug & Jump is a very portable unit which can be carried in the aircraft at all times because it is so lightweight. It can be used to start the aircraft from an ordinary car using standard jumper cables. It comes in two models; The Universal Model is used for Cessna, Beechcraft, etc. (3 pin plug) and the Piper Model is a single pin. The Plug and Jump is a simple conduit of power from any external power source to the aircraft. It is not a battery in and of itself. The Plug n Jump can be used for either 28V or 14V systems.
Universal Model .....P/N 11-00971 ..... ---
Piper Model.....P/N 11-00972 ..... ---

SB50 HANDLE KIT

The SB50 Handle Kit encases the common SB50 power plug to provide a rugged hand grip for temporary DC power applications such as battery charging. Its ABS plastic case features internal wiring guides for strain relief. These are sized for 16-gauge insulated wire, but can be easily enlarged to accommodate wire pairs up to 10 AWG for higher current applications. Smaller gauge wire pairs can be tied or otherwise bound to prevent passage through the strain relief channels .....P/N 11-16517 ..... ---

PIPER TYPE PLUG

Mates with 11041 socket. Electrical conductors and connections are designed for maximum efficiency and long life. With ground return terminal. Single pole. Brass female contact with spring-grip tension provides solid engagement with the socket. Cable clamp holds wires firmly in place. Diecast housing. Accepts up to 0AWG cable .....P/N 11-03159 ..... ---

PIPER TYPE SOCKET

Self-grounding socket. Single pole. Diecast housing, spring-loaded door. Solid brass contact, 3/8" (9.5mm) diameter, with insulated tip to prevent short circuits. Rubber boot protects terminals and connections. Accepts up to 0AWG cable. Fits 2" (50.8mm) diameter hole. Flange holes 21/64" (8.6mm) diameter, 2 15/16" (74.6mm) on centers. Mates with 11042 plug.
P/N 11-00500 ..... ---

EXTERNAL POWER RECEPTACLE

This external power receptacle is designed to mount in a hole in the skin of aircraft. Hole is then covered with hinged access door (not included). Mates with AN2551 type plugs. Model 4621B.
P/N AN2552-3A..... ---

PORTABLE POWER SUPPLY

These portable power supplies are an excellent way to power your avionics on the ground while you train or practice in the cockpit. Especially helpful in learning how to operate glass cockpit avionics and panel mount GPS units. To use the Portable Power Supply plug the cord into an AC wall outlet, and then connect the plug into the external power receptacle on your aircraft. Furnished with power supply plug. Manufactured in U.S.A.
This unit can also be used as a battery charger, by using the battery clip adapter which is provided with the unit.
12V Port Power Supply 3 Pin Plug.....P/N 11-05084 ..... ---
12V Port Power Supply Single Pin .....P/N 11-05085 ..... ---
24V Port Power Supply 3 Pin Plug.....P/N 11-05086 ..... ---
24V Port Power Supply Single Pin .....P/N 11-05087 ..... ---

AVIATION BATTERY SYSTEMS STARTSTICK PORTABLE GPU

StartStick® has designed an ultra lightweight 28V Portable / Stowable Ground Power Unit (GPU) with a built-in Standard Global 3-Pin connector. The StartStick® portable power unit is powered with high-power Li-Ion ("Nanophosphate™") cells. **Features**: • Fully Serviceable Battery Pack • 3 to 4 Engine Starts Per Charge • ransmits up to 28 kilowatts of power • Smart Lithium Technology • 3,000 to 4,000 starts – Time Before Overhaul • Charge Port attaches to on-board auxiliary power supply • Includes 120/220V 50/60hzs battery charger • Short Circuit Protection • Impact, water and chemical resistant polymer case

	StartStick 10	StartStick 15	StartStick 20
Capacity	9.7 Ah	14.7 Ah	19.4 Ah
Max Current (Pulse)	800 Amps	1600 Amps	1600 Amps
Max Current (Cont.)	200 Amps	300 Amps	400 Amps
Weight	4.81 kg (10.6 lbs)	6.76 kg (14.9 lbs)	9.21 kg (20.20 lbs)
Length	432 mm (17.00 in)	539 mm (21.21 in)	438 mm (17.25 in)
Width	157 mm (6.19 in)	157 mm (6.19 in)	185 mm (7.31 in)
Time to Discharge*	29min	44 min	60 min
Charge Time (approx)	2.8 hrs	4.2 hrs	5.6 hrs
Part Number	11-19668	11-19669	11-19670
Price	---	---	---

AVIATION BATTERY SYSTEMS STARTSTICK EXTENSION CABLE

Aviation Battery Systems StartStick Extension Cable. Required for AW139, Pilatus PC12 / PC24, and recommended for Twin Turboprop / Turbofan Platforms.
3 Foot .....P/N 11-20180 ..... ---
5 Foot .....P/N 11-20535 ..... ---

AVIATION BATTERY SYSTEMS STARTSTICK 10/20AH CARRYING CASE

StartStick hard case, a rugged case for your StartStick 10 / 20ah. Its custom-molded foam secures your device during transport and storage, while Pelican's renowned toughness ensures protection in any condition. **Specifications**: • Weight: 10 lbs • Dimensions: 22 × 16 × 9 in.....P/N 11-20163 ..... ---

AVIATION BATTERY SYSTEMS STARTSTICK CARRYING CASE

Aviation Battery Systems StartStick Carrying Case (10AH).....P/N 11-20166 ..... ---

AVIATION BATTERY SYSTEMS STARTSTICK CARRYING CASE

Aviation Battery Systems StartStick Carrying Case (15AH).....P/N 11-20168 ..... ---

MASTER RELAY

(Battery Solenoid) - Applicable to all homebuilts. Continuous duty. 12V and 24V. **Not for certified aircraft. Features**: • High current capacity control • Isolated or grounded coils • Enclosed in dust-resistant case • Longer steel encasement permits lower heat rise and more sensitive operation on Type 71 **Specifications:** • Dielectric Strength: 500 Volts • Temperature Range: -40°F/-40°C to 122°F/50°C • Mechanical Life (no load): 250,000 operations • Electrical Life (rated load): 100,000 operations • Vibration: 5 g's vertical and horizontal planes • Duty Cycle: Continuous
111-226 (12V).....P/N 11-03161 ..... ---
111-226 (24V).....P/N 11-05799 ..... ---

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POWER PANELS FOR HOMEBUILTS

Mini Power Panel

Homebuilder's Power Panel

Based on a heavy duty printed circuit board that eliminates the bus bars an provides a user serviceable and logical arrangement of all power system components. Only DC rated switches and quality resettable thermal circuit breakers are utilized. Connections to the panels are via screw type terminal blocks. The avionics 'sub' bus is filtered. All metal parts are stamped aluminum. Lexan overlay on the faceplate. Complete documentation and suggested wiring diagrams are included. **Standard Power Panel: 8 Switches:** Fuel Pump, Landing Light, Strobe Lights, Navigation Lights, Panel Power, Pitot Heat, Radio Master, and a Cessna type split master switch for master solenoid and alternator field control. **18 Circuit Breakers:** Fuel Pump, Landing Light, Strobes, Nav Lights, Panel Power, Pitot, Alternator Field, Gyros, Gauges, Trim, and Spare, (on Radio Bus) Radio1, Radio 2, GPS, Transponder, Audio, Avionics. **Dims & Wt:** 2.25"H x 13.00"W x 7.50"D, approximately 3.0 lbs. **Mini Power Panel: 6 Switches:** (main panel) Fuel Pump, Landing Light, Strobe Lights, Navigation Lights, Panel Power, (side panel) has a Cessna type split master switch for master solenoid and alternator field control. **13 Circuit Breakers:** Fuel Pump, Landing Light, Strobes, Nav Lights, Panel Power, Engine Instruments, & Spare, (on Radio Bus) Radio1, Radio 2, GPS, Transponder, Avionics, (side panel) 30 amp alternator output breaker. **Dims & Wt:** (main panel) 2.375"H x 8.375"W x 6.50"D, (side panel) 2.375"h x 2.5"w x 2.0"d, approximately 2.5 lbs.

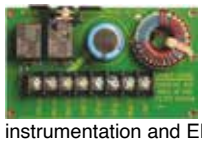
Homebuilders Panel ..... P/N 11-11675 ..... **--- ea**
Mini Power Panel ..... P/N 11-11680 ..... **--- ea**

LIGHT SPORT POWER PANEL

The Light Sport Power Panel was designed for LSA and light aircraft applications. It offers a new degree of flexibility in modern "Glass Panel" equipped aircraft. The electrical power bus is split into three segments including the Main Bus, Radio Bus and the Essential bus. The Radio Bus is switched and filtered. The Essential Bus can wire direct to the Main Bus or easily connected to a back up system such as the Composite Design Power Guard to allow dependable, constant power to critical flight and engine instruments. As with all Composite Design power systems, this panel is rugged, serviceable and dependable.

Specifications: • 6 Switches: Fuel Pump, Landing Lite, Nav Lite, Strobes, Radio Bus Master, and Cessna type split master for Master Solenoid and Alternator Field. • 14 Circuit Breakers: Main Bus - Fuel Pump, Landing Lite, Nav Lite, Strobes, Panel Power, Accessories • Radio Bus (Filtered) Radio 1, Radio 2, Transponder, GPS, Audio Panel • Essential Bus EFIS#1, EFIS#2, Flight Instruments, Engine Data • Dimensions & Weight: 2.375"H x 10.5"W x 6.5"D, approx 2.25 pounds.

28V ..... P/N 11-09207 ..... ---
14V ..... P/N 11-09206 ..... ---



POWER GUARD MODULE

The Power Guard Module manages up to 10 Amps of secondary power for aircraft accessories that require back-up power. Typical accessories include electronic ignition, electronic engine/flight instrumentation and EFIS systems. The module works with a small 7-10 A secondary battery. The on board circuitry includes a secondary battery master relay, primary power controls, filter and charging circuit.

Dims: 4.75"L x 2.75"W x 1.2"H..... P/N 11-02044 ..... ---

RADIO STACK POWER PANEL

The Radio Stack Power Panel is designed to fit neatly in the 6.25" radio stack format. It is well suited for LSA and light aircraft applications, offering a new degree of flexibility in modern "Glass Panel" equipped aircraft. The power bus is split into three segments including the Main Bus, Radio Bus and the Essential Bus. The Radio Bus is switched and filtered. The Essential Bus can be wired directly to the Main Bus or easily connected to a back up system such as the Composite Design Power Guard. This allows dependable, constant power to critical flight and engine instruments. As with all Composite Design power systems, this panel is rugged, serviceable, and dependable. ..... P/N 11-10081 ..... ---

VERTICAL POWER VP-X

The VP-X integrates with many popular EFIS products enabling you to monitor and control your entire electrical system on the EFIS display. In addition using the EFIS for attitude, navigation, and engine information, you now can use the EFIS display to monitor the health of your electrical system, view and control the status of individual circuits, and respond to circuit faults.

Vertical Power offers these capabilities through the use of a patented electronic circuit breaker (ECB) technology that is at the core of all of our products. Of course, ECBs provide circuit protection like old-fashion thermal circuit breakers, but ECBs do a lot more than just detect circuit faults. ECBs are intelligent, configurable, and offer capabilities not otherwise available with old-style breakers. For example, ECBs can detect a burned-out landing light or disable the starter circuit while the engine is running.

The VP-X supports a single bus electrical architecture with a single or dual alternator configuration. It additionally supports the ability to measure the voltage on an aux battery. There are enough circuits to wire a typical RV (including the RV-10), Glastar, Lancair Legacy, Velocity, Cozy, or other 2 to 4 place aircraft.

Specifications:

• Power: 4-32 volts DC, 60A max continuous
• Weight: 1.9 lbs

Note: Either a wiring harness kit or connector-only kit is required with the VP-X system.

Vertical Power VP-X-PRO ..... P/N 11-09293 ..... ---
Vertical Power VP-X Sport ..... P/N 11-09294 ..... ---
VP-X Pro Wiring Harness ..... P/N 11-09295 ..... ---
VP-X Sport Wiring Harness ..... P/N 11-09296 ..... ---
VP-X Sport Connector-Only Kit ..... P/N 11-09834 ..... ---
VP-X Pro Connector-Only Kit ..... P/N 11-09835 ..... ---
Crimp Tool (Req. w/ Connector-Only kit) ..... P/N 11-09836 ..... ---

VERTICAL POWER PPS PRIMARY POWER SYSTEM

Finally, a simple and reliable primary power solution. The Vertical Power Primary Power System (PPS) is an entirely new approach to the master, starter, and charging circuit on your experimental aircraft or LSA. It combines the functions of multiple high-current, electro-mechanical components into a single, solid-state device that installs in minutes with plug-and-play simplicity. Plus, the high-reliability of the PPS means you won't find yourself stranded on a deserted landing strip without the power to start your plane. The PPS is a new power distribution component that handles your aircraft's high-current power. It controls the flow of power from the battery to the starter and supplies power to the Vertical Power VP-X (or a traditional bus) for your electrical system loads. The PPS also supports the charging circuit by completing the B-lead connection to the alternator.

PPS ..... P/N 11-15519 ..... ---

ABSOLUTE SOLUTIONS GEAR WARNING UPGRADE KIT FOR PIPER

Gear Warning Upgrade Kit installed under STC SA02798SE for Piper PA-34-220T (SN 34-8133001 through 34-8633031 and 3433001 through 3433172)

From operational experience, Absolute Solutions has noted numerous flaws with the factory design which causes operators to often experience: • Erratic or intermittent operation • Failure of the throttle position actuation system • Premature failure of gear horn • Increased maintenance and parts cost • Increased aircraft down time

The Gear Warning Upgrade will provide operators with a much more reliable way to achieve the same level of safety as the original system was designed to provide.

For Piper PA-34-220T ..... P/N 05-28990 ..... ---
Fpr Piper PA-44-180 ..... P/N 05-28988 ..... ---

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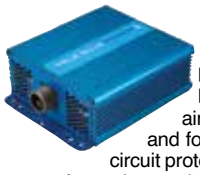
Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TRUE BLUE POWER®
MD835 EMERGENCY POWER SUPPLY

Automatically supplies 24.5 VDC power for critical or standby equipment. 4.5 Amp-hour battery with Nanophosphate® lithium-ion cell chemistry Lightweight 4.7 lbs. – 8 lbs. Input Voltage: 24–32 VDC. 5V module connector available. Direct replacement for PS-835/PS-855 or forward-fit installations. 2-year capacity check, 10-year replacement life. (approx.) 3.1"H x 12.6"L x 2.3"W Mounts in standard ¼ ATR Rack. Maintains full charge by recharging during normal flight operations. Remote mounted self-test switch required. FAA TSO C179a certified. Part 23 AML STC Certified. Qualified to RTCA/DO-160F and RTCA/DO-311. Designed and built in the USA. Two year limited warranty.

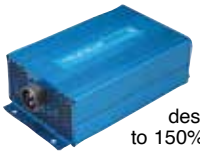
MD835 ..... P/N 11-08713 ..... ---
MD835 28V/5V ..... P/N 11-15297 ..... ---

TRUE BLUE POWER® TI500 STATIC INVERTER



DC-to-AC static inverter produces 115 volts at 60 Hz for 500 watts of "wall outlet" power from an aircraft's 28 VDC input. Has the same connector and footprint of legacy designs, plus overload and short-circuit protection up to 150 percent of the rated load. Supplies power for various cabin accessories, such as laptops, cell phones and iPods, Compact design. Remote On/Off feature, 500VA rated output power, 85-90% efficiency, Input voltage: 20-36 VDC, Input current: 20A at 28 VDC input, Output voltage: 115 VAC, Frequency: 60 Hz ± 1%, Single phase, true sine wave output, Overload and short-circuit protection up to 150% of rated load, Rated from -65 F°to +160°F (-55°C to +71°C), FAA TSO-C73 certified and RTCA DO-160F qualified, Designed and built in the USA., Two year limited warranty ..... P/N 11-09613 ..... ---

TRUE BLUE POWER TI1200 STATIC INVERTER



The TI1200 DC-to-AC static inverter produces 115 volts at 60 Hz for 1200 watts of "wall outlet" power from an aircraft's 28 VDC input. Lighter and smaller than competing inverters, the TI1200 has the same connector and footprint of legacy designs, plus overload and short-circuit protection up to 150% of the rated load..... P/N 11-10743 ..... ---

TRUE BLUE POWER® DC/AC INVERTER

This classic DC to AC solid-state "peanut" inverter provides a reliable source of 26 volt, 400 Hz, AC power. Versatile, compact and lightweight, it is ideal for use with Stormscope bootstrap and multifunction display installations. Input: 11-40VDC @ 0.75 amp. Output: 26 VAC,400 Hz, Single Phase, 10 volt-amperes ..... P/N 11-07062 ..... ---

TRUE BLUE TI250 STATIC INVERTER

A lightweight power converter that translates a 20 to 36 VDC input to a 115 VAC output at 60 Hertz and provides 250 watts (VA) of power. The alternating current output is defined as a pure sine wave with less than 2% of total harmonic distortion for clean, noise-free, harmonic-free power to supply nearly any common commercial or consumer load rated for a nominal input of 115VAC. FAA certified to TSO C73 and tested to rigorous environmental standards and levels of RTCA DO-160 ..... P/N 11-12858 ..... ---

BLUE POWER CONVERTER 24-36 VDC TC120

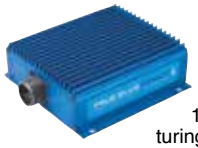
The highly efficient TC120 DC-to-DC Converter produces 120 watts of power from an aircraft's 28 VDC input. Engineered to run cooler and featuring a fanless design, the TC120 saves energy and reduces weight. It produces enough energy to power electronic equipment throughout the aircraft, including in-seat, cabin and cockpit power applications ..... P/N 11-14449 ..... ---

TW15 WIRELESS CHARGER COIL

Manufactured by Mid-Continent Instruments and Avionics for True Blue Power. • Standby, Charging, Charge Complete and Fault status indication • Short circuit, power surges, overload, over temperature, reverse polarity and foreign object detection protection • Ideal for in-seat, cabin and cockpit applications • Designed and built in Wichita, Kansas, USA • 2-year limited warranty

Number of Coils	Weight	Dimensions	Part No.	Price
Single, Slim	3.4 oz.	4.50" x 2.28" x 0.21"	11-19191	---
Single, Compact	3.0 oz.	2.45" x 2.28" x 0.35"	11-19192	---

TRUE BLUE AC-DC CONVERTER 280 WATTS



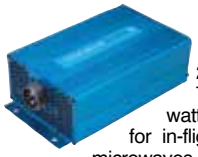
The highly efficient TC280 AC-to-DC Converter produces 280 watts of power from an aircraft's 115 VAC input. Engineered to run cooler and featuring a fanless design, the TC280 saves energy and reduces weight. It produces enough energy to power electronic equipment throughout the aircraft, including in-seat, cabin and cockpit power applications. It has a compact and lightweight design that can be conveniently mounted in the floor or cabin wall. Supplies 280 watts of 28 volt power. Greater than 88% energy efficiency. Compact and lighter design weighing only 2.0 lb. Input transit, overload, and short circuit-protection. Designed and built in Wichita, KA, USA. ....P/N 11-14193 ..... ---

TRUE BLUE POWER CONVERTER 24-36 VDC TC120

The TC120 is a multi-purpose DC-to-DC Converter with a variable input and output. This converter is an ideal power source for low-voltage DC accessories and equipment. Supplies 120 watts of 24–36 volt power. Greater than 88% energy efficiency. Compact and lighter design weighing only 2.0 lb. Input transit, overload, and short circuit-protection. Designed and built in Wichita, KA, USA.

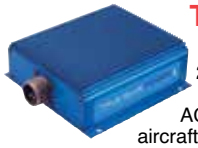
P/N 11-14270 ..... ---

TRUE BLUE DC TO AC STATIC INVERTER 1200 WATTS



28 VDC to 230 VAC 1200VA, 50 Hz, Sine wave. The TI1200 Series DC-to-AC Inverter produces 1200 watts of power from the aircraft's 28 VDC input. It is ideal for in-flight entertainment and galley equipment, such as microwaves and coffee makers .....P/N 11-14268 ..... ---

TRUE BLUE DC TO AC STATIC INVERTER 250 WATTS



28 VDC, 115/26 VAC 250VA, 400 Hz, Sine wave. The highly-efficient TI250 Series DC-to-AC Inverter produces 250 watts of power from the aircraft's 28 VDC input. Engineered to run cooler and featuring a fanless design, the TI250 Series saves energy and reduces weight. At only 2.2 pounds, these inverters are lighter and smaller than competing units and include overload, short-circuit and ground fault interrupter protection .....P/N 11-14267 ..... ---

TRUE BLUE MOUNTING ADAPTER

Mounting adapter for TI500 Mid-Continent True Blue DC To AC Static Inverter 500 Watts.

P/N 11-14269 ..... ---

TRUE BLUE POWER TC230 DC TO DC CONVERTERS

A lightweight power converter that translates a direct current (DC) input of 14 volts to an output of 28 volts direct current (DC) output. Converting an input operation voltage range of 10-18 V DC to 28VDC makes the TC230 suitable for power to a wide variety of general, business, or commercial aviation applications. The unit is rated for a nominal output of 230 watts to power avionics, instrumentation, lighting, and many other applications. FAA certified to TSO-C71 and tested to rigorous environmental standards and levels of RTCA DO-160G. Ideal choice for aircraft power needs while reducing the challenges associated with other similar products.

Description	Part No.	Price
10-18 VDC in, 28 VDC out, 230 watts	10-06250	---
10-18 VDC in, 28 VDC out, 230 watts with remote on/off feature	10-06251	---

TRUE BLUE POWER TC240 VDC TO VDC CONVERTER

The model TC240 VDC/VDC Power Converter that supplies 240 watts of 5 to 18-volt power to electronic equipment, including lighting and cabin accessories.

Features: • Lightweight — 0.7 lbs • 240 watts output power • Input Voltage: 24 – 32 VDC • Output Voltage: 5 – 18 VDC adjustable • Mating Connector: MCI P/N 9018654 (included).

P/N 11-17843 ..... ---

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TRUE BLUE INVERTERS – CONVERTERS

TRUE BLUE POWER INVERTER TI1202

True Blue Power Inverter TI1202 1200 VA, 240 VAC, Output 50Hz sine wave

Features: • Supplies 1200 watts of power to multiple cabin accessories, galley equipment and entertainment systems • Ideal for use in special mission and VIP cabin configurations. • Compact design — 30% smaller than competing products • Lightweight — 7.3 lbs • 88% efficiency • Input transient, overload and short-circuit protection — up to 150% of rated load without damage • Remote On/Off optional • FAA TSO-C73 certified • EASA ETSO-C73 certified • RTCA DO-160G qualified • Designed and built in Wichita, Kansas, USA • Two-year limited warranty

Specifications: • Input Voltage: 20 – 36 VDC • Input Current: 60A at 28 VDC input • Output Voltage: 240 VAC ± 3%

P/N 10-07612 ..... ---

TRUE BLUE POWER INVERTER 6431502-1

Inverter 18-32 VDC in, 30-120 VAC out, 1500 VA, Single phase square wave, Variable out.....P/N 10-07613 ..... ---

TRUE BLUE POWER INVERTER TI1202 6431200-5

True Blue Power Inverter TI1202, 600VA, 230 VAC Output 50Hz Sine Wave 6431200-5.....P/N 10-07614 ..... ---

TRUE BLUE POWER INVERTER 6432000-4

True Blue Power Inverter 200VA, 115VAC Output, 400Hz Sine Wave 6432000-4

Features: • Supplies 2,000 watts of wall outlet power • Ideal for emergency medical equipment, special mission and VIP cabin configurations • Lightweight — 7.7 lbs • 93% efficiency • Input transient, overload and short-circuit protection — up to 150% of rated load without damage • Remote On/Off optional • FAA TSO-C73 certified • EASA ETSO-C73 certified • RTCA DO-160G qualified • Designed and built in Wichita, Kansas, USA • Two-year limited warranty

Specifications: • Input Voltage: 20 – 36 VDC • Input Current: 80A at 28 VDC input • Output Voltage: 115 VAC ± 3%

P/N 10-07618 ..... ---

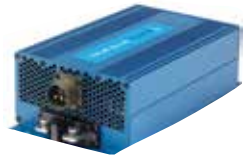
TRUE BLUE POWER CONVERTER 6432001-1

True Blue Power Converter 100-250VAC, 47-800Hz, 28 VDC Output 6432001-1

Features: • Supplies 2,000 watts of 28-volt DC power • Lightweight — 9.9 lbs • Input transient, temperature monitoring, short circuit and overload protection (up to 110% of rated load without damage) • 88 – 90% efficiency • Remote On/Off • Designed and built in Wichita, Kansas, USA • Two-year limited warranty

Specifications: • Model Number: TC2000 • Part Number: 6432001-1 • Input Voltage: • 100 – 250 VAC, 47 – 800 Hz • Input Current: 21A Nominal • Output Voltage: 28 VDC ± 0.4 VDC • Output Power: 2,000 watts • Weight: 9.9 lbs (4.5 kg).....P/N 10-07617 ..... ---

TRUE BLUE POWER DC-TO-DC VOLTAGE CONVERTER



The high voltage TC6500 converts 270 VDC to 28 VDC to power avionics and related systems. The DC-to-DC converter is compact, lightweight and easy to install inside or outside of the pressure vessel. It has 96% peak efficiency and features an overload capacity up to 110% of rated power without damage.

Features: • High Voltage. High Efficiency. Low Weight. • 6,500 watts output power • 28.7 VDC ± 0.4 VDC output voltage • 96% efficiency • Remote control • Three brushless, temperature-controlled and speed-controlled fans; Thermostatic On/Off control • Up to 110% of rated power without damage overload capacity • Input transient, temperature monitoring, short circuit and over current protection • Designed and built in Wichita, Kansas, USA • Two-year limited warranty

Specifications: • Input Voltage: 165 – 320 VDC • Input Current: 26 A Nominal • Output Voltage: 28.7 VDC ± 0.4 VDC • Output Power: 6,500 watts • Weight: 10.4 lbs (4.7 kg) • Dimensions: 6.3"W x 12.0"L x 3.5"H • Altitude: 55,000 feet • Temperature: -67°F to +158°F (-55°C to +70°C) • Mating Connector: 9019803-8, 9019803-9 • Case: Anodized aluminum extrusion, blue • Certification: FAA TSO-C71 pending • RTCA DO-160G pending.....P/N 10-07756 ..... ---

TRUE BLUE POWER INVERTER 6432000-2

True Blue Power Inverter 6432000-2

Features: • Supplies 2,000 watts of wall outlet power • Ideal for emergency medical equipment, special mission and VIP cabin configurations • Lightweight — 7.7 lbs • 93% efficiency • Input transient, overload and short-circuit protection — up to 150% of rated load without damage • Remote On/Off optional • FAA TSO-C73 certified • EASA ETSO-C73 certified • RTCA DO-160G qualified • Designed and built in Wichita, Kansas, USA • Two-year limited warranty **Specifications**: • Input Voltage: 20 – 36 VDC • Input Current: 80A at 28 VDC input • Output Voltage: 230 VAC ± 3% • Output Power: 2,000 VA • Output Frequency: 50 Hz ± 0.1% • Output Waveform: Single phase, true sine wave, • < 3% total harmonic distortion • Weight: 7.7 lbs (3.49 kg) .....P/N 10-07619 ..... ---

TRUE BLUE POWER FREQUENCY CONVERTER TFC4000

Quiet the cabin and cut replacement costs with the quietest and most reliable frequency converter on the market. The TFC4000 weighs less than 20 pounds, making it the lightest converter in its power class and easier to install in tight, hard-to-reach spaces. **Features**: • 4,000 watts of output power • 13 A input phase current • 93% efficiency • Single phase, true sine wave < 3% total harmonic distortion output wareform • -0.8 to +0.8 power factor • Remote On/Off • Short circuit, under-voltage, over-voltage, overload (up to 150% for 5 minutes, without damage), DC offset protection • Designed and built in Wichita, Kansas, USA • Two-year limited warranty **Specifications**: • Model Number: TFC4000 • Part Number: 6434000-1 • Input Voltage: • 115 VAC (L – N) • 360 – 800 Hz • 3 Phase Weight: 18.9 lbs (8.57 kg)

P/N 10-07601 ..... ---

TRUE BLUE POWER TFC4000 AC-TO-AC FREQUENCY CONVERTER

Features: • The QUIETEST. The LIGHTEST. The MOST RELIABLE. • 4,000 watts of output power • 230 VAC, 50 Hz, single phase output voltage • 93% efficiency • Single phase, pure sine wave < 3% total harmonic distortion output wareform • -0.8 to +0.8 power factor • Remote On/Off • Short circuit, under-voltage, over-voltage, overload (up to 150% for 5 minutes, without damage), DC offset protection • Designed and built in Wichita, Kansas, USA • Two-year limited warranty

Specifications: • Input Voltage: 115/200 VAC, 360 – 800 Hz, 3-phase • Input Phase Current: 13 A • Output Voltage: 230 VAC, 50 Hz, single phase • Output Power: 4,000 watts • Weight: 18.9 lbs (8.57 kg) • Altitude: 55,000 feet • Temperature: -40°F to +167°F (-40°C to +75°C) • Mating Connector: 9019110-4, 9019507-2 • Case: Anodized aluminum, blue • Certification: • FAA PMA approved • FAA TSO-C230 • RTCA DO-160G

P/N 10-07601 ..... ---

TRUE BLUE POWER CONVERTER 24-32 VDC TC120 6430120-3

The model TC120 DC/DC Power Converter is a lightweight power converter that translates a direct current (DC) input of 28 volts to an adjustable 5 to 24 volt direct current (DC) output. **Specifications:** • Input Voltage: 24 – 32 VDC • Input Current: 5.0 A Nominal • Output Voltage: 5 – 24 VDC • Output Power: • 120 watts • Efficiency: >90% • Weight: 0.65 lbs (0.29 kg) • Altitude: 55,000 ft • Temperature: -65°F to +160°F (-55°C to +70°C) • Protection: Input transient, overload, short-circuit protection • Mating Connector: MS3106A-14S-5S • Case: Anodized aluminum, blue • Certification: • FAA TSO-C71 certified • RTCA DO-160G qualified • MIL-STD-461F • MIL-STD-704F • MIL-STD-810F

P/N 11-19519 ..... ---

TRUE BLUE AC OUTLET NO PIGTAIL

True Blue AC Outlet No Pigtail

Features: • 9018708-3: 115V, AC, Three Prong, No pigtail, No PMA • 9018708-4: 115V–230V, AC, Universal, No pigtail, No PMA

115V Three Prong
P/N 10-07551 ..... ---
150-230V Universal
P/N 10-07552 ..... ---

EL

TRUE BLUE TA202 USB CHARGING PORT

The high-powered TA202 Series USB Charging Port simultaneously provides 3 amps per port. Offering an extensive list of USB Type-C and Type-A configurations, the TA202 powers the next generation of electronic devices.

Model No.	Description	Part No.	Price
6430202-1	10-32 VDC, Dual Type-A / Type-C Rear connector	11-14397	---
6430202-2	10-32 VDC, Dual Type-A / Type-C Bottom connector	11-14430	---
6430202-3	10-32 VDC, Dual Type-C / Type-C Rear connector	11-14431	---
6430202-4	10-32 VDC, Dual Type-C / Type-C Bottom connector	11-14432	---
6430202-5	10-32 VDC, Dual Type-A / Type-A Rear connector	11-14433	---
6430202-6	10-32 VDC, Dual Type-A / Type-A Bottom connector	11-14434	---
6430202-7	10-32 VDC, Single Type-C Rear connector	11-14435	---
6430202-8	10-32 VDC, Single Type-C Bottom connector	11-14436	---
6430202-9	10-32 VDC, Single Type-A Rear connector	11-14437	---
6430202-10	10-32 VDC, Single Type-A Bottom connector	11-14438	---
6430202-11	10-32 VDC, Dual Type-A / Type-C Rear connector Lighted	11-14677	---
6430202-12	10-32 VDC, Dual Type-A / Type-C Bottom connector Lighted	11-16389	---
6430202-13	10-32 VDC, Dual Type-C / Type-C Rear connector Lighted	11-14940	---
6430202-14	10-32 VDC, Dual Type-C / Type-C Bottom connector Lighted	11-16390	---
6430202-15	10-32 VDC, Dual Type-A / Type-A Rear connector Lighted	11-16394	---
6430202-16	10-32 VDC, Dual Type-A / Type-A Bottom connector Lighted	11-16391	---
6430202-17	10-32 VDC, Single Type-C Rear connector, Lighted	11-14939	---
6430202-18	10-32 VDC, Single Type-C Bottom connector, Lighted	11-16392	---
6430202-19	10-32 VDC, Single Type-A Rear connector, Lighted	11-14938	---
6430202-20	10-32 VDC, Single Type-A Bottom connector, Lighted	11-16393	---

TRUE BLUE DC TO AC 250W STATIC INVERTER

The model TI250 series Static Electrical Power Inverter is a lightweight power converter that translates a 20 to 36 VDC input to a 115 VAC output at 400 Hertz and provides 250 watts (VA) of power. Supplies 250 watts of power to multiple cabin accessories, such as laptops, tablets and cell phones.

Application: • Single engine turbo/piston prop, most small jets. (storm scope & boot type)

Highlighted features include short circuit protection, overload capability, low voltage shut-down, temperature monitoring, a self-resettable over-temperature disable, a remote on/off function, and a fault indication output. .....P/N 11-16365 ..... ---

TRUE BLUE POWER CONVERTERS

AmeriKing #	MCI #	Description	Part No.	Price
AK-551-9	6430120-1	Functional Equivalent Different Connector	11-14270	---
AK-551-9M	6430120-1	Functional, Equivalent, Same connector	11-14270	---
AK-551-9M1	6430120-2	Functional, Equivalent, Same connector, remote feature	11-14449	---
AK-551-9M2	6430120-1	Functional, Equivalent, Same connector	11-14270	---

TRUE BLUE DC TO AC 2000W STATIC INVERTER

The TI2000 Series Inverter provides 2,000 watts of wall outlet power to cabin and galley accessories, including entertainment systems, personal electronic devices, microwave ovens, and coffee makers. Smaller, lighter and more efficient than competing units and includes input transient, overload and short-circuit protection up to 150% of the rated load.

Features: • Supplies 2,000 watts of wall outlet power • Ideal for emergency medical equipment, special mission and VIP cabin configurations • Lightweight — 7.7 lbs • 93% efficient • Input transient, overload and short-circuit protection — up to 150% of rated load without damage • Remote On/Off optional • FAA TSO-C73 certified • EASA ETSO-C73 certified • RTCA DO-160G qualified .....P/N 11-16367 ..... ---

APPAREO STRATUS POWER PRO USB CHARGING PORT

Features: • Dual 3.0 amp charging ports, USB-A and USB-C • Blue LED lighted front • FAA certified to TSO-C71 • Designed and built in the USA • Cylindrical shape for easy, drill-in panel installation • Shielded to prevent any added RF noise in comm radios • 5-year warranty backed by Appareo

Specifications: • 1.848″ w x 1.848″ h x 1.263″ d - (Depth includes the mating connector)

P/N 11-18449 ..... ---

DELUXE COCKPIT VOLTAGE CONVERTER

DC-DC Converter, Device to reduce voltage from 28V to 12V. Allowing the user to operate 12V items in a 28/24V airplane. The device is fully electronic, no passive elements generating heat. It is fully protected and fused. A green LED indicates normal and abnormal conditions (overload). The unit is enclosed in a small precision machined aluminum box with integrated heatsink. Input is via a fused lighter plug and output is via a female light receptacle. Size: 1.3"x 1.3"x 2.3"; Weight: approx. 5.0 oz.

3 AMP.28-12V DC-DC Converter .....P/N 11-04330 ..... ---

10 AMP.28-12V DC-DC Converter .....P/N 11-04331 ..... ---

INVERTER – Simple solution for a 28 Volt airplane. Plug it in to the 28 Volt lighter socket and out comes 117 Volts. 2 AC sockets. Max Wattage is 800W. Over and undervoltage warnings. On-Off switch. All metal enclosure. Dimensions: 7" x 5" x 2". Weight: 2 lbs 4 oz.

400W 28-110V Inverter .....P/N 11-00402 ..... ---

TRUE BLUE POWER AC OUTLET

The True Blue Power AC outlets offer pilots, passengers and crew convenient access to accessory power. The North American, three-prong outlet, and the Universal outlet are rated up to 15 amps of power each, and can be easily mounted in the cabin, cockpit and galley.

P/N 10-06624 ..... ---

MCI TRUE BLUE REAR MOUNT COVER PLATE

MCI True Blue Rear Mount, small square cover plate for Single Configuration USB TA202 / TA360 Charging Ports.

In The Box: • 1-Small square face plate • 1- Mounting plate • 2-Silicone washers • 2-Adhesives (0.5")

P/N 11-17907 ..... ---

INTELLIKEY NG-R

Start your plane the similar to how you would start your car – with your key in your pocket. When you approach your plane your connected lights will turn on to help light up a dark hangar or night. Once you turn on your master, Intellikey will determine authenticity of the key to enable start circuit activation and allow start if the key is valid. Alternatively, you can connect to Intellikey with your phone to activate with your 4 digit pin.

Intellikey NG-R is the latest edition of Intellikey product offering. Intellikey NG-R brings many new features and will be the first product in the Intellilink lineup of products that we will be bringing to market. Includes one key, harness and removal adapter .....P/N 11-19520 ..... ---

12-24V TO 5V CONVERTER

Note: For experimental aircraft only

The perfect low-cost 5V transformer for your 24 volt OR 12 volt system aircraft. Run ANY device(s) up to 5 AMPS total current draw. Use this in your aircraft to drive a 5V USB port, or other low voltage electronics.

Fits in the palm of your hand - it only weighs 2 oz! Rated at 25 Watts, this converter is EASY to wire - Just provide between 8 volts and 30 volts positive to the RED line, Ground to either of the black wires, and 5 volts will flow OUT of the YELLOW wire .....P/N 11-19703 ..... ---

EL

LONE STAR DC-AC INVERTER KITS

Lone Star Aviation is proud to announce it's new PORTABLE INVERTER Kit to provide airborne or military vehicles with an (ac outlet) to operate low power devices on 115 or 220 AC voltages. The inverter kit includes an FAA -TSO Approved Power Adapter for 24vdc and a MIL C-5015 connector for 12 vdc systems, a 36 inch harness and pelican case for transporting to and from your base of operation. The Inverter Kit meets FAA TSO, MIL STD C-5015 qualified for panel power and UL safety requirements for the inverter's GFCI AC receptacle for operator safety.

Model No.	Input	Output	Part No.	Price
LS03-06302	12Vdc	115VAC 60Hz Pure Sine Wave	11-12998	---
LS03-06304	24Vdc	115VAC 60Hz Pure Sine Wave	11-13001	---

LONE STAR USB CHARGER MULTI-PORT

Lone Star's USB Multi-Port can be ordered with 1, 2, or 3 USB ports. The USB circuit is designed to work with apple products, as well as android, and most other USB devices. The USB Multi-Port Charger is compatible with both 12V and 24V aircraft and rotorcraft.

Description	Part No.	Price
Lonestar USB Charger With 1 Port	11-12988	---
Lonestar USB Charger With 2 Ports	11-12989	---
Lonestar USB Charger With 3 Ports	11-12991	---

LONE STAR DC BULK-HEAD FILTER

DC Bulk-Head Filter. DO-160D Testing Pending. Full feed thru design
P/N 11-08617 ..... ---

LONESTAR CONNECTOR KIT DC STEP DOWN CONVERTER

Connector Kit DC Step Down Converter with Cigarette Lighter Receptacle allows you to connect directly to one of the Down Converters (LS03-05003). Cable length is 36 inches. Lone Star Aviation's FAA-TSO approved • Charging Cell-SAT Phones • Portable radios • GPS, Back-up • And More!. P/N 11-08637 ..... ---

LONE STAR 90 DEGREE ADAPTER

Lone Star Aviation's new 90 degree adapter is made precisely from a tough and durable plastic and is designed to help in Avionics Cooling Fan installations in confined areas under the panel. This Item is made to fit our new 5/8" tubing. P/N 11-08623 ..... ---

LONE STAR STEP DOWN 24V TO 12V CONVERTER

With this TSO-C71 DC to DC Converter you can operate 12 Volt Radios, GPS's, and Electronic Devices in a 24 Volt Aircraft. Size: 6.0"W x 5.0"D x 1.75"H. Weight: 1.5 lbs. Color: Gold Anodized. Material: Aluminum Extrusion. P/N 11-03309 ..... ---

LONE STAR ALTITUDE SWITCHES

Altitude Switch is designed to turn on a circuit for various fixed wing and rotorcraft applications.
P/N 11-12996: • 12,000ft Set Point • actuates: 12,000 +/-500ft • deactuates: 10,000ft
P/N 11-12997: • 9,500ft Set Point • actuates: 9,500 +/-500ft • deactuates: 7,500ft.

12,000 Ft. Set Point ..... P/N 11-12996 ..... ---
9,500 Ft. Set Point ..... P/N 11-12997 ..... ---

LONESTAR NYLON Y ADAPTER

Nylon 5/8" Y adapter for splitting airflow from one avionics cooling fan to two units.
P/N 11-08622 ..... ---

LONESTAR FILTER 70 AMP

70 amp filter attenuates EMI-RFI noise generated from alternator, generator systems, gear motors, blowers for a/c systems and other higher current noise sources. Can be used to filter the aircraft's avionics buss to filter RF, NAV, GPS, as well as other navigational equipment. The filter is FAA- PMA for certificated aircraft as well as for experimental aircraft
P/N 11-04849 ..... ---

LONESTAR FILTER 100 AMP

100 amp filter (FEED THRU) (Fail Safe Design) attenuates both low and high frequency, (10hz to 30 mhz) of EMI-RFI noise generated from the aircraft's alternator systems to the aircraft's dc buss. This filter, (100 amp Fail Safe design) is used by OEM aircraft manufacturers to attenuate 100% of the on board noise before it penetrates the aircraft's dc buss. The filter is FAA- PMA pending for certificated aircraft but can be used on experimental aircraft.
P/N 11-04850 ..... ---

LONESTAR THE ELIMINATOR

The Eliminator is a low pass double (LC) PI type filter designed to suppress both low and high frequency line noise. The filter may be connected at the source of the noise or on the input of the effected component
P/N 11-08055 ..... ---

LONE STAR FAN FAILURE WARNING SYSTEM

The Fan Failure Warning system (FFW) was designed for Lone Star Aviation's Cyclone-21 (3) Port fan with a (3 wire) TTL 5v output. The FFW system will switch the dual color LED from green to red when a fan's RPM is reduced to less than 50% of the fans normal speed. The FFW, Fan Failure Warning system has an (optional circuit) designed to monitor the temperature of a remote electronics bay or entertainment equipment and will turn on a remote fan when the predetermined temperature has been reached.

12V Warning System..... P/N 11-13894 ..... ---
24V Warning System..... P/N 11-13895 ..... ---
Remote Temperature Switch..... P/N 11-13793 ..... ---
Remote Temperature Sensor..... P/N 11-13794 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

LONE STAR DC CIGARETTE LIGHTER RECEPTACLE

Perfect for portable GPS systems, cell phone chargers, laptop power supplies, or anything else you would plug into your car during a road trip. 12V Aircraft: If your aircraft runs on 12V you will not need any extra equipment to operate 12V equipment, and it comes with a a rubber cap marked with DC12V. 24V Aircraft: Please note, you will need a 28V to 12V convertor to power most 12 volt consumer electronic devices.

Non TSO'd.....P/N 11-04862 ..... ---
TSO'd .....P/N 11-09432 ..... ---
DC Converter 28-14VDC TSO .....P/N 11-03309 ..... ---
SD Converter 24-13.8VDC TSO .....P/N 11-04894 ..... ---

LONE STAR APPLE IPAD LIGHTNING CABLES

Available in 2 meter Straight Cord or 1 meter Coiled Cord. Ruggedized, reinforced rubber jacket. For iPhone 5 and newer. For iPad 4 and newer.

2m Straight.....P/N 11-12992 ..... ---
1m Coiled .....P/M 11-12993..... ---

LONE STAR RUGGEDIZED IPAD-USB CORDS

The Ruggedized apple to USB Coil Cord stretches from 20" to 29", with an apple specific connector on one end, with USB on the other. This cable is a perfect match with both Lone Star Aviation's USB plugs for Power Adapters and MS-USB panel mount USB receptacle.

USB to iPad Cors (1M)q.....P/N 11-10697 ..... ---

LONE STAR IPAD / IPHONE USB CHARGER KIT

This Kit includes a 28V to 5V Down Converter and a panel mount USB plug with Lone Star's proprietary circuit for use with apple products. This Kit also includes our converter connector kit and locking connectors for easy installation behind aircraft panels. Charging an iPad in flight has never been simpler or more reliable.....P/N 11-10588 ..... ---

LONE STAR LED PANEL INDICATOR (DUAL COLOR)

The Dual color LED illuminates green for normal and red for a problem. Use for any (stand alone annunciation).
• LED Panel Indicator: .625, .468 or alternate mounting
• Dual Color - (3) wire Red LED 660nm, Green LED 525nm = .20ma
• Wide angle 180 degrees. **Note**: Price listed below is for the LED Panel Indicator ONLY. You will need to purchase the Cyclone 21 Blower and the Fan Failure Warning Unit separately to complete the system.

P/N 11-10592 ..... ---

LONE STAR NOISE FILTER EVALUATION KIT (LOW CURRENT)

Not sure what filter you need? Order a Filter Evaluation Kit. Kit includes Lone Star's most popular and widely used Filters; the Magneto Filter, Atlternator Filter, and the Eliminator Filter.....P/N 11-08620 ..... ---

LONE STAR NOISE FILTER EVALUATION KIT (HIGH CURRENT)

Not sure what filter will best solve your noise problem? Check out Lone Star's new High current filter Evaluation kit. This kit comes with 1 100 Amp filter, 1 70 amp filter, and 1 10 amp eliminator filter in a beautiful pelican micro case .....P/N 11-08621 .....

GUARDIAN DUAL PANEL PORT USB-A POWER SUPPLY 2.7 AMP

Reliable Dual USB Power in your Panel
The smartPower 250-101 is a cockpit flush mounted Dual USB-A power / charging unit designed to provide reliable power for most consumer products with USB charge capabilities such as smartphones and tablets. The smartPower 250-101 provides 2.7 amps at 5 VDC ± 0.25 (10 watt) for the USB port / connection. The small, unobtrusive design requiring only a 0.785 inch square cutout in the panel to be mounted. The smartPower 250-101 features a green LED backlit port for easier use in night flying conditions.

Approved for FAA Certified Part 23 Aircraft and Part 27/ 29 Rotorcraft.

P/N 13-24527 ..... ---

LONESTAR LED PRESS TO TEST INDICATORS

Lone Star Aviation's line of LED panel indicators are available in a RED, Green, or Amber lenses. The indicators are TESTED by a PRESS to TEST function. The panel indicators are available in 14V and 28V, and non-dimmable and dimmable versions. Are installed into a (.468 mounting hole)in the aircraft's instrument panel. The indicator is a MS 25041 aluminum body and standard T1-3/4 led. Indicators are also available in 28vdc with standard led bulb as well as an FAA T1-3/4 bulb at 28vdc

Description	Color	Volt	Part No.	Price	Volt	Part No.	Price
Non-Dim	Red	14V	11-08768	---	28V	11-08676	---
Non-Dim	Green	14V	11-08769	---	28V	11-08677	---
Non-Dim	Amber	14V	11-08770	---	28V	11-08678	---
Dim	Red	14V	11-08764	---	28V	11-08673	---
Dim	Green	14V	11-08766	---	28V	11-08674	---
Dim	Amber	14V	11-08767	---	28V	11-08675	---

LONE STAR DC-AC INVERTER

Lone Star Aviation's new inverter line boasts cutting edge DC/AC 60Hz technology in addition to innovative circuitry to operate most DC-AC applications within the following markets, i.e. commercial, industrial, solar, aviation and military. The DC/AC inverter is a high reliability model that is mission ready and TSO approved for airborne applications.

500 Watt Inverter.....P/N 11-08632 ..... ---
1000 Watt Inverte.....P/N 11-08634 ..... ---

Accessories

Plug MS3106E18-9P 9 (For 500W Inverter)..P/N 11-08633 ..... ---
Plug MS3106E24-12S(For 1000W Inverter)..P/N 11-08635 ..... ---

LONESTAR GROUND LOOP FILTER

Designed to ELIMINATE onboard ground loop noise problems in an easy to use module. Plugs in between your portable device and your aircrafts audio system. Was designed with a low frequency isolation audio transformers that isolates normal audio from unbalanced AC noise interference. Incorporates RCA, 2.5mm and 3.5mm connectors that ensures compatibility with numerous consumer devices currently used in modern aircraft. Easy Plug and Play Installation, Approval Types: Form 337, Portable Device 1 year Limited Warranty Ultra small footprint Custom configurations Portable device.

P/N 11-09493 ..... ---

LONESTAR VOLTAGE CONVERTERS

Lone Star Aviation's new 12V STEP-UP Converter is the smallest (3" x5" x 2"), most efficient (93-95%) and the most versatile STEP-UP aircraft converter in our industry today. RTCA/DO 160D tested to operate 28V NAC/COM radio equipment such as KX 155, KX 165, KY 196A, KY 196B, and Motorola VHF transceivers on 12V aircraft. Additional 28V electronic devices are HSI, cameras, audio panels, battery backup systems, etc. FAA Approved Under TSO-C71 Now Approved LS03-05002B-MS * FAA TSO-C71 Approved (Pending)

Step-up 14V DC to 28V DC Converter .....P/N 11-02888 ..... ---
Step-down 24VDC to 12VDC Converter.....P/N 11-03309 ..... ---
Connector LS03-05026-1 For Step Down Converter
P/N 11-19262 ..... ---
Connector Kit 5 Pin DB Style .....P/N 11-06001 ..... ---

LONE STAR DC TO DC CONVERTER

Ultra Small (2.5 x 3.5 inch) dc converter, the installer now has multiple mounting points. Its narrow body shape, mounting brackets, multiple voltages, and FAA-TSO make it the ideal candidate for aircraft and rotorcraft installs. With more demanding and sophisticated aircraft applications like EFB's systems, cell phone charging, computers, LCD, entertainment sub-systems this dc power supply is a real winner.

Output Voltage	Output Current	Model No.	Part No.	Price
5.0 VDC	7.0C/7.5PA	LS03-05003-005	11-10700	---
9.0 VDC	7.0C/7.5PA	LS03-05003-009	11-10589	---
13.8 VDC	7.0C/7.5PA	LS03-05003-138	11-04894	---
16.0 VDC	4.0C/4.5PA	LS03-05003-160	11-04895	---
19.0 VDC	4.0C/4.5PA	LS03-05003-190	11-04898	---

USB CHARGERS

GARMIN GSB™ 15 USB CHARGER

The GSB 15, a small, lightweight USB charger designed specifically for aircraft installations. GSB 15 includes two powerful USB Type-A charging ports capable of charging at up to 3A or 18w per port simultaneously.

Dual USB Type-A - Rear ..... P/N 11-17434 ..... ---
Dual USB Type-A - Side ..... P/N 11-17435 ..... ---
Dual USB Type-C - Rear ..... P/N 11-18774 ..... ---
Dual USB Type-C - Side ..... P/N 11-18775 ..... ---
USB Type-A & Type C - Rear ..... P/N 11-18772 ..... ---
USB Type-A & Type C - Side ..... P/N 11-18773 ..... ---

BENDIX KING AEROPOWER USB CHARGING PORT

Panel-mount or cabin-mount USB power product for charging any handheld electronic device such as a phone, tablet and ADS-B portable, while the aircraft is in operation. Two USB type A input ports that provide 2.5 amps of power per port. ..... P/N 11-17589 ..... ---

USB DUAL HIGH POWER SMART CHARGER BY SPT

Dual USB Smart Charging Port (SPTUSBSC) is a DCP (Dedicated Charging Port) to industry standard protocol per the USB Battery Charging 1.2 Compliance Plan.

Black Anodized ..... P/N 11-17461 ..... ---
Clear Anodized ..... P/N 11-17462 ..... ---

GARMIN GSB™ 15 USB CHARGER MOUNTING KIT

Simplify your GSB 15 installation by using one of these optional mounting kits to easily mount your GSB 15 into an existing 2.25" or 3.125" instrument cutout.

2-1/4 Inch ..... P/N 11-17437 ..... ---
3-1/8 Inch ..... P/N 11-17438 ..... ---
Connector Kit ..... P/N 11-17491 ..... ---

GARMIN GSB™ 15 DECORATIVE COVER

Decorative cover. Available in black, or as an unfinished version that you can custom paint to match your aircraft interior. **Note:** Product image shows black powder coat version. GSB 15 shown for reference, separate purchase is required.
Unfinished ..... P/N 11-18620 ..... ---
Black Powder Coat ..... P/N 11-18622 ..... ---

BELITE RADIANT USB-C/A DUAL CHARGING PORT

Features: • USB-C and USB-A ports • 3.0 amps and 2.4 amps charging capability • 9 to 16 volt operation, up to 3.8 amp draw

P/N 10-07142 ..... ---

FAST CHARGE DUAL USB CHARGER

Features: • Two USB 2.0 connections • 8A output compatible with most mobile device; including Apple® products • Features intelligent device recognition to tailor charging needs to different devices • Charges at rate of traditional wall outlets regardless of device • Compatible with Contura switch panels and bezels • Protective dust cap keeps out dust and spray Reverse polarity protection • Short circuit protection • Thermal overload protection • Lifetime warranty ..... P/N 11-16258 ..... ---

ICARUS CHARGE ON THE FLY LEMO POWERED USB CHARGER

The PD port supplies up to 30 watts and will charge a completely dead iPad Pro 11" in 1:45. This charger plugs into the aircraft's ANR headset LEMO jack using a short captive cable. The headset is then plugged into the LEMO jack on the opposite end. All audio signals pass through the charger to the aircraft's audio system. Power for the internal charger is provided by the ship's power (12-30 volts). ..... P/N 11-18869 ..... ---

USB PANEL POWER ADAPTER

CRAZEDpilot USB Panel Mount provides a simple and convenient mounting option for dual USB power adapter with easy access and integrated dust seal. Can be driven with 6-30v input power source, so works great in either 12v or 24v aircraft! ..... P/N 11-14866 ..... ---

AITHRE DUAL USB CHARGER

The Aithre USB charger is specifically designed for experimental aircraft and to charge iOS devices at the fastest charge rate possible. If you've experienced slow charge rates from plugs advertised as 'fast' or 'high wattage', the reason is that Apple requires a voltage key on the data pins of the USB to unlock the faster charge rates. It doesn't matter if your USB charger is 100W - if you don't apply the right voltage keys the Apple devices won't take it. Instead, you'll get stuck with 500 mA and a device that barely charges. ..... P/N 11-19048 ..... ---

APPAREO STRATUS POWER MAX DUAL USB-C

TSO-certified USB charging. Designed to provide maximum power and versatility with dual USB-C connectors, delivering up to 60 watts of charging power. ..... P/N 11-20350 ..... ---

RAM GDS® TYPE-C AND TYPE-A 48W PREMIUM 2-PORT WALL CHARGER

The GDS® USB Type-C and USB Type-A premium wall charger allows for two devices to be charged simultaneously. Utilize full 30W USB Type-C power delivery, and take advantage of the 18W USB Type-A Qualcomm® Quick Charge™ 3.0 port. This rugged two-port wall charger also provides short circuit, overvoltage, overcurrent, and temperature protection ..... P/N 11-17473 ..... ---

RAM GDS® 2-PORT USB CIGARETTE CHARGER

The GDS® 2-Port USB Car Charger can charge two devices at once, while also taking advantage of Qualcomm® Quick Charge™ 2.0 and 3.0 for compatible devices – quickly charging your devices on the go. To prevent overcharging and overheating, multiple built-in safeguards protect against over-current. The low-profile design fits easily in your dash without getting in the way, and the indicator light lets you know that the charger is plugged in and your devices are charging ..... P/N 11-17592 ..... ---

CRAZED PILOT DUAL USB CIGARETTE LIGHTER ADAPTER

Dual USB Cigarette Lighter Adapter. Excellent solution to your USB charging needs! Power that iPad and Cellphone with your CRAZEDpilot Dual-USB Cigarette Lighter adapter! ..... P/N 11-16636 ..... ---

SCOSCHE REVOLT 12W / 2.4 AMP CIGARETTE USB CHARGER

reVOLT is the world's smallest yet most powerful car charger for USB powered devices. Each of the 2 USB ports packs 12 Watts (2.4A) of power to charge two iPads at once. reVOLT is low-profile and lightweight - perfect for any vehicle's power socket. This car charger packs colossal power into a modest frame, naming it the best USB car charger on the market today. This car charger allows you to charge 2 devices at once - even 2 iPads simultaneously. Plug in any combination of iPads, iPhones or iPods with your existing charge/sync cables ..... P/N 11-13313 ..... ---

SINGLE RECEPTACLE CIGARETE LIGHTER

12V Receptacle has a weatherproof cap to protect the contacts from corrosion. The plug features a built-in LED power status indicator and 10A fuse. **Specifications**: • Cutout Size: 1 1/8"dia. x 2 1/2" D • Dimensions: 1 5/8"H x 2 5/16W x 2 1/2"D ..... P/N 11-17580 ..... ---

DYNON USB PORT PANEL MOUNT

12 Inch ..... P/N 10-06852 ..... ---
24 Inch ..... P/N 10-06853 ..... ---
36 Inch ..... P/N 10-06854 ..... ---

RADIANT TRIPLE USB CHARGER

This Triple Charger has three USB ports, two USB-A and one USB-C. It supports up to 18 or 36 watts per port and has an aluminum case. It also has an independent power switch and a soft LED backlight. Features: • Power input: 12 to 24v input Power switch • Two USB A style ports • One USB Type C port (3 ports total) • Standards support: QC3.0, PD3.0 @ 18 or 36 watts per port, up to 12V/3A delivery • Material: Aluminum Case • Extras: Wiring Harness, Dust Cover • Dimensions: Fits in any 1.25" hole; behind-panel depth of 2". • Red backlight for aviation use • Quiet Electrical Operation confirmed by user in experimental Vans RV ... P/N 10-07738 ..... ---

TRUE BLUE POWER USB CHARGING PORTS

Charge your personal electronic devices faster with TA245 Series USB Chargers. The TA245 is compatible with any aircraft running 14-volt and 28-volt systems. It delivers 45 watts to phones, tablets, EFBs and laptops. The TA245 Series features USB Power Delivery (PD) and ultra-fast charging Programmable Power Supply (PPS) technology.

TRUE BLUE POWER SINGLE USB CHARGING PORTS

OEM P/N	Power Input	USB Connector	Part No.	Price
6430245-17	Rear Connect	Single USB-C	11-20702	---
6430245-19	Rear Connect	Single USB-A	11-20703	---

TRUE BLUE POWER DUAL USB CHARGING PORTS

OEM P/N	Power Input	USB Connector	Part No.	Price
6430245-15	Rear Connect	Dual USB-C/USB-A	11-20699	---
6430245-13	Rear Connect	Dual USB-C/USB-C	11-20700	---
6430245-15	Rear Connect	Dual USB-A / USB-A	11-20701	---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BATTERY BOX BUMPER SEAL

Battery Box Bumper Seal. 1103M foam with sticky back.
Mil Spec: AMS3195E
Bumper Seal 1" ...P/N 11-05613 ..... ---

TRUE BLUE POWER MAX POWER USB CHARGERS - TA360 SERIES

The TA360 is certified to FAA/TSO-C71 and qualified to multiple RTCA DO-160G environmental conditions for ease of installation and incorporation on any class or type of aircraft. The unit is easily mounted with two screws and a two-wire power input and can be installed throughout the aircraft, including the cockpit, cabin, galley, or other locations. Small, compact, powerful, and with plenty of installation flexibility, the TA360 is an ideal choice in any aircraft to charge the latest electronic devices at maximum speed.

Model No.	USB Connector	Part No.	Price
6430360-27	Single: Type C - Mini Starlink Compatible	10-07490	---
6430360-37	Single: Type C - Lit - Mini Starlink Compatible	10-07491	---
6430360-21	Dual: Type A +Type C - Mini Starlink Compatible	10-07492	---
6430360-31	Dual: Type A +Type C - Mini Starlink Compatible	10-07493	---
6430360-13	Dual: Type C +Type C + Rear Connector - Lit	11-17839	---
6430360-17	Single: Type C + Rear Connector - Lit	11-17840	---
6430360-3	Dual: Type C +Type C	11-17841	---
6430360-7	Single: Type C + Rear Connector	11-17842	---
6430360-67	Single: Type C + Rear Connecter	10-07763	---
6430360-77	Single: Type C + Rear Connecter - Lit	10-07764	---
6430360-1	Dual: Type C + Type A + Rear Connecter	10-07765	---
6430360-11	Dual: Type C + Type A + Rear Connecter - Lit	10-07766	---

AIRCRAFT BATTERY HYDROMETER

Special Tester designed for testing aircraft batteries. Requires only small amount of fluid & ideal for close quarters.
Float calibrated from 1.100-1.300 Sp. Gr. in 5° intervals .....P/N 11-01674 ..... ---

AIRCRAFT BATTERY LOCK

Designed to disable the battery from the electrical system which cuts off all power to the aircraft unattended many pilots. However, many panel locks are easy to pick and pry open. The batter lock is constructed using a tough space age plastic polymer and a seven pin round ball bearing lock that is impossible to pick which in turn prevents aircaft theft and increases security.
P/N 11-02753 ..... ---

BATTERY MAT

The Battery Mat is the world's only acid neutralizing and absorbing mat designed for use beneath any lead-acid battery. The acid-neutralizing and absorbing fabric is patented and manufactured with recycle material in the U.S. Width: 12". Sold by linear ft
P/N 11-00170 .....--- Ft

GROUNDING BLOCK / TERMINAL BLOCK / BUSS BAR

Complete with a nickel-plated copper buss bar and stainless steel nuts with nylon lock washers, stainless steel flat and locking washes and 6 stainless steel screws (5 are 6/32 screws and one is 8/32 for the incoming ground/power). Each screw can accept up to four ring terminals by placing them back to back (see picture). Overall dimension is 4.25" long by .75 wide.....P/N 11-13347 ..... ---

STORACELL BATTERY CADDYS

• Originally designed for pilots, but also great for camping, boating, travel or at home. • Dispenses batteries with one hand for safety and convenience. • Terminal protection at both ends regardless of how the battery is inserted. • Built-in hook for hanging at home or work. • Store your batteries in a compact, easy to find caddy • Batteries not included.

Description	Part No.	Price
Holds 4 C batteries	13-21648	---

FPS PLUS - FLAP POSITIONING SYSTEM

The FPS-Plus is a full service, automatic, flap positioning system. This system operates similar to the "Cessna type flap systems" that many pilots were trained in. The pilot can easily go from one flap position to another with one quick press of the flap button. All flap stop positions (from 0 to 10, your choice) are easily, user programmable. This system is also fairly simple to retrofit it to your "already flying" aircraft.
The Plus feature of this system, allows you to program an elevator trim position for each flap position. Your elevator trim will be automatically adjusted, for every different flap setting that you choose. NO more manual tweaking of the elevator trim is needed for every different flight configuration.
The pilot can now pay more attention to the actual "flying the aircraft", rather than tweaking the correct amount of elevator trim for every different flight configuration. Flying is made much more enjoyable. If you desire to retract the flaps fully, all you have to do, is press the "flap up" button for more than 1 second. The flaps will be automatically retracted to their full up position. The elevator trim is also automatically adjusted to your cruise trim position.
FPS-PLUS with Elev. Trim .....P/N 11-02980 ..... ---
FPS-PLUS without Elev. Trim .....P/N 11-02981 ..... ---
FPS - PLUS REFLEX.....P/N 11-06440 ..... ---

SEAL-ALL MINI FUSE / MICRO RELAY PANELS

Seal-All Mini Fuse Panel: • Holds 20 Mini Fuses (30A max output per contact) • Sealed cap cover and seals for wires to make it a weather tight unit • Compact size (4.44"H x 3.33"W) • Each row of 10 fuses is separately bused with #10-32 input studs (you can separate avionics and lighting circuits on separate busses and control power to them by relays) • Accepts wire size 22-12 gauge • Easy wiring (crimp terminal and push into hole on the backside) • Uses crimp terminals (sold separately based on wire size and accepts 22-12 ga wire) • Wire seals are included with the crimp terminals to make a weather tight seal • Available mounting bracket for easy mounting and wiring (sold separately) • Cavity plugs are available to seal any unused openings.
Seal-All Combination Mini Fuse and Micro Relay Panel: • Holds 10 Mini Fuses (30A max output per contact) and 5 Micro Relays (at 12V rated at 35A for SPST) • Sealed cap cover and seals for wires to make it a weather tight unit • Compact size (only 4.44"L x 3.33"W) • Row of fuses and relays are bused separately with #10-32 nickel plated brass input studs (you can separate essential and non-essential circuits and control power to them by relays) • Easy wiring (crimp terminal and push into hole on the backside) • Accepts wire size 22-12 gauge • Uses tangles terminals (sold separately based on wire size and includes seals) • Available mounting bracket for easy mounting and wiring (sold separately) • Wire seals available for every wire size (and cavity plugs for any unused openings).

Description	Part No.	Price
Rear Terminal Mini Fuse Panel	11-13348	---
Rear Terminal Combo Mini Fuse & Micro Relay Panel	11-13351	---
Bracket Sold as Pair	11-13352	---
Terminals 22-20ga with seals Red (10 terminals & 10 Seals)	11-13353	---
Terminals 18-16ga with seals Purple (10 terminals & 10 Seals)	11-13354	---
Terminals 16-14ga with seals Green (10 terminals & 10 Seals)	11-13355	---
Terminals 14-12ga with seals Gray (10 terminals & 10 Seals)	11-13356	---
Cavity Plug - 5 plugs	11-13357	---
Terminal Removal Tool	11-13358	---
Mini Fuse Gray 2 Amp Pack of 5 fuses	11-13359	---
Mini Fuse Tan 5 Amp Pack of 5 fuses	11-13360	---
Mini Fuse Brown 7.5 Amp Pack of 5 fuses	11-13361	---
Mini Fuse Red 10 Amp Pack of 5 fuses	11-13362	---
Mini Fuse Blue 15 Amp Pack of 5 fuses	11-13363	---
Mini Fuse Green 30 Amp Pack of 5 fuses	11-18507	---
Micro Relay 12 Volt AMP RATING NO-35/ NC-- / SPST contact	11-13364	---
AMP RATING NO-35/NC-25 / SPDT contact Micro Relay 12 Volt	11-13365	---
Micro Relay 24 Volt AMP RATING NO-20/ NC-15 / SPDT contact	11-13366	---

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ELECTRONIC FLAP ACTUATOR / INDICATOR

The Electronic Flap Actuator (2071/2072) is an electronic module designed to automatically control an electrical flap actuator and provide visual readout of 3 or 4 flap positions. The device can be used with any electrical actuator providing the operating current is less than 8 amps at 12 volts. A 5K or 10K resistive sensor is required to provide a voltage readout of the actuator position. The control unit incorporates push button switches with built in LED lights. The system can be easily calibrated to your flap system. This involves first placing the actuator in the manual mode then manually moving the flaps to a desired position by pushing one of the switches. Once the flaps are positioned correctly, a combination of switch actions will record that flap position in the onboard memory in the actuator. This process is repeated until the values for all four positions have been stored in the memory.

Once calibrated, pushing any of the switches will activate the actuator and drive the flaps to the correct pre-defined position. When the flaps are at the correct position, the actuator will stop, and the LED in the correct switch will illuminate indicating that the flaps are in the correct position.

The LED lights in the display can be dimmed by hooking the dimmer output to an external dimming voltage. The Flap actuator also incorporates an electrical flap position interface for use with the Aircraft Components P/N 2070 Gear Position Warning System eliminating the need to install the external flap switch.

Note: This system is not FAA approved. It is intended for installation in Experimental category aircraft only.

The Electronic Flap Actuator is available with 3 flap position switches (full up, takeoff position, and full down) or 4 flap position switches (full up, 20 degrees, 40 degrees, and full down).

4 switch.....P/N 11-07728 ..... ---

FLAP HANDLE

This flap handle is a well built, durable, and cost effective alternative to the plain round standard flap toggle switch that exists in most experimental aircraft. This unit is easily installed over the existing toggle switch with the included set screws. This unit is powder coated for a long lasting, durable finish. **Note: This is the Flap Handle Only**

Flap Handle.....P/N 11-11337..... ---

Flap Handle and anti rotation plate that limits knob rotation and also provides a nice labeling of the flap handle.

P/N 11-11338..... ---

RELAY DECK

Two axis relay deck to be used for both elevator and aileron servos.

P/N 11-10512 ..... ---

PISTOL GRIP COVER

These Grip Covers are made of soft, durable red neoprene and feature a high quality zipper to wrap snugly around most stick grips. These covers help prevent UV damage to your stick grip. In addition to protecting against dirt and other foreign object damage, these covers also prevent switch damage when entering cockpits or when working under instrument panels.....P/N 11-13088 ..... ---

THE SWITCHBOX GENERATOR

******Switchbox Control can operate within Canada and United States****** The easiest and safest way to remote control any electrical device, now with battery powered AC Outlets! An immense 1800W output, 1024Wh capacity and cellular control for making remote operation off-the-grid easy.

For Pilots: No more driving to the airport hours before a flight and running a forced air system. Turn on your Engine Heater from your cellphone, and simplify your cold flying routine! Scheduling ability to turn on remotely at 3am, heat up for 4-5hours and be ready for the early morning flight with high oil and CHT temps. Can be used with or without cellular, and comes with a free app to control on WI-FI. Sidekick Battery accessory available to increase the capacity and heating time 3x, up to 10 hours with standard oil sump heater.

Base System Includes: Switchbox Generator, Power Cords 120V/12V

P/N 08-19268 ..... ---

Full System Includes: Switchbox Generator, Sidekick Battery, Sidekick Charger, Power Cords 120V/12V .....P/N 08-19269..... ---

VINTAGE AN 8002 REPLICA RUBBER STICK GRIPS

Get a grip on authenticity! The "AN 8002" grip is back in 1" and 1-1/8" sizes. Used in Piper, Aeronca, Taylorcraft and many others from prewar to 1947 Correct grip for L– birds, looks great on homebuilts!

1 Inch.....P/N 11-12769 ..... ---

1-1/8 Inch.....P/N 11-12767 ..... ---

TOSTEN STICK GRIPS

Wired with 22 gauge wiring. 7/16 stainless steel shaft with custom machine bushings to fit any diameter shaft. Comfortable grip. Made with lightweight glass-filled Wellman nylon. Rotates easily to any position. Made in the USA. For use in Experimental Aircraft Only.

Model	Functions	Part No.	Price
CS-2	Two function control stick Index trigger button Additional button underneath trigger Ambidextrous design	11-10508	---
CS-4	Four function control stick Two trigger buttons Two face buttons Ambidextrous design	11-10509	---
CS-6	Eight function control stick Four-way hat switch Trigger button and index button Ambidextrous design	11-10510	---
CS-8	Eight function control stick Four-way hat switch Two face buttons Trigger button and index button Ambidextrous design	11-10511	---

INFINITY AEROSPACE LIGHTED RETRACT HANDLE WITH GEAR SWITCH

Canard and Non-Canard RED / GREEN lighted Retract Handle with DPDT Lever Lock Gear Switch (12 VDC / 7.5 amp, or 24 VDC / 4 amp) Gear DN the handle LED light is GREEN; Gear in Transit or is Unsafe, or the Canard Retract Handle and Switch is in the Center OFF position, the LED light in the handle is RED; Gear UP the handle LED light is OFF, or BLUE (your choice).

The GREEN / RED LED light in the handle can be changed to different colors (such as GREEN / BLUE for amphibs), or GREEN / RED / BLUE, but GREEN / RED gear lights for retractable landing gear are standard colors in retractable planes. Pre-wired with 2 feet each of 22 gauge GREEN, RED, BLUE and BLACK wires.

Description	Part No.	Price
12 Volt Canard	11-12220	---
12 Volt Non-Canard	11-12361	---
24 Volt Canard	11-12221	---
24 Volt Non-Canard Purple	11-12362	---

EL

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

STICK GRIPS

INFINITY MILITARY STICK GRIPS

P/N 11-00031

Infinity Aerospace designed these grips with safety, comfort, functionality, durability and aesthetics in mind. The ergonomic design is contoured to the shape of your fingers and includes a fatigue reducing hand rest at the base. The non-glare matte black finish is abrasion and impact resistant for long life, yet easily removable, maintainable and repairable. Matching customized Right and Left hand models available. All the major cockpit functions canbe at your finger tips. Reduces pilot workload and fatigue. Thousands have already been installed in over 50 models of aircraft (even a 314 foot custom Yacht and a submarine!) FAA certified in the new Micco and Eagle FAA certified aircraft, field approved in Bell 206, Hughes 500 and Hiller helicopters, Aero Commander 500 A's, Mooney's, Cessna's, Swift's and in blimps. Standard issue in several of today's finer Sport Aircraft Kits.

Possible Switch Functions :

Two-Axis Trim Switch: Pitch & Aileron (typical) or Pitch & Rudder (standard in Lancair IV's);

OR Step frequencies and/or flip-flop frequencies and/or transponder ident.;

OR sweep spotlights, cameras, computer cursors, etc.

Red Trigger Switch: Push-To-Talk (PTT); OR 35mm camera, video camera, audio recorder, paint ball or propane machine gun, etc.;

ON/OFF Tactical Push-Buttons: Main fuel pump, aux fuel pump, landing light(s), taxi light(s), nav lights, strobe lights, pitot heat, ident., etc.

Features:

- 6" long with 6 switches
- Fits stick OD's from 5/8" to 1-1/4"
- Delivered with color coded pre-wiring and installation schematic
- Completed grip only weighs approx. 12oz
- Has matte black cooley hat and grip with red trigger
- 4 molded in brass inserts hold the halves together

Description	Part No.	Price
Military Stick Grip A/C with Flap/Brake (Right)	11-00031	---
Military Stick Grip A/C with Flap/Brake (Left)	11-00032	---
Military Stick Grip A/C without Flap/Brake (R)	11-00033	---
Military Stick Grip A/C without Flap/Brake (L)	11-00034	---
Military Stick Grip with Spoilers (Right)	11-00036	---
Military Stick Grip with Spoilers (Left)	11-00667	---
Replacement Switches for extra customizing:		
Momentary push-button switch	11-00218	---
ON/OFF (8636) SPDT push-button	11-00219	---
Toggle [spring loaded-to-center – ON/OFF/ON]	11-00220	---
Toggle [ON/Center OFF/Momentary ON–ON/OFF/ON]	11-00221	---
Spacers/Adapters:		
1″ OD x 3/4″ ID (i.e.-for Lancairs & canard tubes)	11-00222	---
1″ OD x 7/8″ ID (i.e.-for Glasairs & RV co-pilot tubes)	11-00223	---
Infinity Switch with China Hat (Right)	11-04757	---

TEAKWOOD STANDARD PISTOL GRIPS

Teak wood is beautiful, absorbs sweat, preventing any sticky slime build-up. Grips come in standard, master and ultra styles in left and right hand. The standard grip comes with a push button on its top with a special dust proof cover. Normally is used for a push-to-talk button, is normally open switch and is good for 250,000 cycles minimum. The master grip has larger head to accom- modate a 4-way trim switch & push-to-talk button.

The trim switch is the same one used with M.A.C. systems. The ultra grip has a larger surface to accommodate the 4-way trim and a auto-pilot and/or air brake with the push-to-talk located near the tip of the index finger. The ultra can handle a total of four switches, when using the air brake, in its head. Configurations can also be custom designed. All grips come with buttons and a 3/4" or 1" standard bore. Larger bores available.

Right Hand 3/4 inch.....P/N 11-02910 ..... ---
Right Hand 1 inch.....P/N 11-02910-1 ..... ---
Left Hand 3/4 inch.....P/N 11-02915 ..... ---
Left Hand 1 inch.....P/N 11-02915-1 ..... ---

RAC STICK GRIPS

G101 G205 G307 G405

Ray Allen Company G1 and G2 series stick grips use modern, flush fitting push-button switches to control one or two axis electric trim. When one grip is used, these switches can be wired directly to RAC trim servos. This eliminates the need to wire relays in your trim system. However, if two grips are used, you will need either relays or a switch to transfer the control of trims from one grip to the other. The grip itself is made of semi-soft UV and oil resistant foam. The upper switch housing is made of nylon with a lightly textured finish.

G101

The **G101** grip (4.75" height) features a momentary contact switch on top that can be used as a PTT button. (Old MAC Model G1)

P/N 11-09930 ..... ---

G205

The **G205** grip (5.25" height) has 5 functions which include a PTT and a 4 SPDT,momentary contact switches. These switches are rated at 5 amps and can be used for other purposes. (Old MAC Model G5)

P/N 11-09920 ..... ---

G301

The **G301** stick grip feature four individual SPDT momentary contact switches to control one or two axis electric trim. The switches are triggered via a traditonal 4-way "hat" type activator. 6.5" (165 mm) tall.

P/N 11-08644 ..... ---

G303

The **G303** stick grip has two trim switches, a faceplate slotted vertically for 1-axis trim and a PTT switch .....P/N 11-02538 ..... ---

G305

The **G305** stick grip has 4 trim switches, a faceplate slotted vertically and horizontal for 2-axis trim and PTT switch....P/N 11-02539 ..... ---

G307

The **G307** stick grip has 4 trim switches, a faceplate slotted vertically and horizontall for 2-axis trim and PTT switch...P/N 11-02540 ..... ---

G401

The basic **G401** stick grip includes a momentary contact, 50 mA, SPST Push-To-Talk (PTT) switch located on the front side of the grip. Featuring the same comfortable foam grip as the G2 Series.

P/N 11-16321 ..... ---

G403

The **G403** stick grip features a momentary contact, 50 mA, SPST Push-To-Talk (PTT) switch located on the front side of the grip, and two Auxiliary pushbutton SPDT switches. The pushbutton switches can be replaced with four different style toggle switches.

P/N 11-16322 ..... ---

G405

The **G405** stick grip features a momentary contact, 50 mA, SPST Push-To-Talk (PTT) switch located on the front side of the grip, and four SPST switches.....P/N 11-16323 ..... ---

G407

The **G407** stick grip features a PTT switch, four SPST switches and two Auxiliary pushbutton SPDT switches.....P/N 11-14708 ..... ---

Ray Allen stick grips are designed to fit any stick size up to 1" in diameter with the use of spacers. Two nylon spacer are included with each grip enabling easy installation on 3/4", 7/8" and 1" sticks. All Ray Allen grips come as a complete kit and include pre-cut and stripped, Teflon insulated wire. A die-cut label sheet is also supplied in the G205, G207,

RUBBER STICK GRIPS

Rubberized urethane with granular like non-slip surface.

7/8" I.D. Stick Grip .....P/N 11-00100 ..... --- ea.
1" I.D. Stick Grip .....P/N 11-00101 ..... --- ea.
1-1/8" I.D. Stick Grip .....P/N 11-00102 ..... --- ea.

EL

RAC TRIM SYSTEMS

RAC ELECTRIC TRIM SERVOS

Ray Allen trim systems were designed specifically for experimental aircraft. Ray Allen servos are small enough to fit in individual control surfaces or can be used with lighweight springs acting directly on the control system.

Ray Allen trim systems also come with RS2 rocker switches and RP4 LED indicators. All Ray Allen indicators operate off of feedback sensors located inside the servo. These feedback sensors are purposefully isolated from the power supply to the servo motor to guard against possible electronic failure. Ray Allen trim systems also come with a RC8-7 clevis/pushrod kit.

T2-10A

T2/T3 SERVO SPECIFICATIONS

Operating Voltage.....12-14 VDC
No Load Current.....150 ma
Weight.....4oz. (113 g)
Max Thrust.....40 lbs. (18 kg)
Max Operating Thrust.....20 lbs. (0.9 kg)

T4-5 SERVO SPECIFICATIONS

Operating Voltage.....12-14 VDC
No Load Current.....75 ma
Weight.....2.5 oz. (71 g)
Max Thrust.....30 lbs. (13.5 kg)
Length.....2.25" (57mm)
Width.....2.25" (57mm)
Height.....0.77" (20mm)

B6-7C

***T2-7A = exact replacement for MAC 4A servo.*T2-10A = exact replacement for MAC 6A servo. *T3-12A = exact replacement for MAC 8A servo. *T4-5 is exact replacement for the Mac S9 servo.**

RAC SERVO SYSTEMS

RAC Servo System	Part Number	Output Shaft		Price ea.
		Movement	Travel Time	
T2-7A	11-11505	0.7 in.	10 sec.	---
T2-10A	11-11605	1.0 in.	16 sec.	---
T3-12A	11-11615	1.2 in.	19 sec.	---

SERVOS ONLY

RAC Servo System	Part Number	Output Shaft		Price ea.
		Movement	Travel Time	
T2-7A	11-02048	0.7 in.	10 sec.	---
T2-10A	11-02058	1.0 in.	16 sec.	---
T3-12A	11-02065	1.2 in.	19 sec.	---

MINIATURE LINEAR ACTUATORS

RAC Servo System	Part Number	Output Shaft		Price ea.
		Movement	Travel Time	
B6-7C	11-16311	0.7 in.	12 sec.	---
B6-7T	11-16312	0.7 in.	12 sec.	---
B6-11C	11-16313	1.1 in.	19 sec.	---
B6-11T	11-16314	1.1 in.	19 sec.	---

***T2-7A = exact replacement for MAC 4A servo.** ***T2-10A = exact replacement for MAC 6A servo.**
***T3-12A = exact replacement for MAC 8A servo.** ***T4-5 is exact replacement for the Mac S9 servo.**

RAC SWITCHES

RS2 ROCKER SWITCH - Very positive snap action in 2 directions and returns to a center off position. It was designed specifically for Ray Allen trim systems. It is wired to connect both power leads to ground when the rocker is released. This eliminates motor coasting & allows very precise trimming. The RS2 switch is rated at 1amp. The faceplate measures 1.75" (44mm) x 1.0" (25mm) x 1.47" (37mm) deep. Included with trim systems or can be purchase separately. Self adhesive labels are not included. Sold separately. .....P/N 11-02035 ..... ---

RANS ELEVATOR TRIM SYSTEM

Rans Elevator Trim System features a trim tab actuated by a push-pull wire. By turning the trim wheel, the wire moves the trim tab. The system has the look and feel of a standard aircraft trim wheel. The trim tab is constructed of sheet aluminum and can be adapted to the trailing edge of many homebuilts and ultralights. The trim tab is sized for both low & high speed aircraft and since it is mechanical, requires no battery or power source other than the pilot's hands.

Trim System less Tab (no panel or flap lever mount). P/N 11-09955 ..... ---
Trim System with Lower Panel.....P/N 11-09960 ..... ---
Trim System Flap Mount .....P/N 11-09965 ..... ---
Trim System without Wheel.....P/N 11-09970 ..... ---

RAC INDICATORS/SENSORS/ACCESSORIES

RP4 LED POSITION INDICATOR

The RP4 LED position indicator is designed to be installed in the cockpit and give an indication of the servo output shaft position. The 10 LEDs are the brightest available for superior visibility in sunlight, but can be dimmed for night flight. It can be installed horizontally or vertically.

P/N 11-16285 ..... ---

POSITION INDICATOR/ROCKER SWITCH LABELS

Finish off your panel with these high quality labels. Rocker switches and needle indicators require a LARGE label, LED indicators use a SMALL label. Elev 1 shows trim down at top of label.

Rudder - Large .....P/N 11-01819 ..... ---
Rudder - Small .....P/N 11-01820 ..... ---
Aileron - Large.....P/N 11-01816 ..... ---
Elev 1 - Large.....P/N 11-01822 ..... ---
Elev 1 - Small.....P/N 11-01821 ..... ---
Wing Flap - Large.....P/N 11-01818 ..... ---
Wing Flap - Small.....P/N 11-01817 ..... ---
Cowl Flap - Large.....P/N 11-01576 ..... ---
Cowl Flap - Small.....P/N 11-01814 ..... ---

POS-12 POSITION SENSOR – When combined with a Ray Allen indicator, this sensor can be used to measure the position of wing flaps, cowl flaps, or many other mechanisms.Small enough to be installed anywhere, size: 2.7"l x 0.8"w x 0.5"h. (note: T2 & T3 servos have their own built-in sensors) 1.2" travel.

P/N 11-01321 ..... ---

REL-2 SERVO RELAY DECK

This device converts the momentary contact action of the ROS-4 4-way switch, or any SPST pushbutton switch, into a DPDT action that is necessary to operate Ray Allen servos. You will need one of these relay decks for each servo in your installation. Measures 1.6" (40 mm) x 1.8" (49 mm) x 1.1" (28 mm).....P/N 11-05312 ..... ---

SPD-1 SERVO SPEED CONTROL

Enables you to slow the speed of your trim servo to suit your individual installation. Size: 2"x 0.5"x 0.8" .

P/N 11-02078 ..... ---

REG-1 12V REGULATOR

Enable you to operate servos and indicators in aircraft having 28V electrical systems. Converts all input voltages up to 35V to 12V. Capable of supplying 1 amp of current allowing you to operate 2 trim systems simultaneously. Size: 2"x 0.5"x 0.8".....P/N 11-02036 .....

RAY ALLEN BEZEL ONLY WITH HARDWARE

They make an excellent addition to any instrument panel. The bezel was designed to integrate a professional appearing label near the switch. The bezel measures 1.25" (32 mm) x 1.35" (34 mm) .....P/N 11-08642 .....

RAC CLEVIS / PUSHROD KITS

Contains two threaded clevis forks, one 7" stainless steel pushrod and clevis pin hardware. The Ray Allen clevis/pushrod kit is included with Ray Allen trim systems, or can be purchased separately.

RAC P/N	Part No.	Compatible Unit	Thread	Price
RC8-7	11-02040	T2/T3 Servos	8/32"	---
RC8	11-02041	T2/T3 Servos	8/32"	---
RC10	11-08643	T2/T3 Servos	10/32"	---
C2-8	11-16318	B6 Actuator	8/32"	---
C2-10	11-16319	B6 Actuator	10/32"	---

WC2 5-WIRE TEFLON® INSTALLATION CABLE

This durable, flexible wire cable is highly recommended for Ray Allen installations. 5 separate color coded, 26-gage, 19-strand, silver-plated, FEP Teflon® insulated wires inside a tough, all Teflon® sheathing.

20 ft. roll.....P/N 11-01577 ..... ---
25 ft. roll.....P/N 11-01578 ..... ---
50 ft. roll.....P/N 11-01579 ..... ---

EL

RAC BEZEL SWITCHES – STICK GRIPS

RAC - RBS SERIES BEZEL SWITCHES

An excellent addition to any instrument panel. The bezel measures 1.25"w x 1.35"h. A die-cut label sheet is purchased separately. The switches are SPST. They have screw terminals and are rated at 15 amps. Specify Toggle (RBS-T11) or Pushbutton (RBS-P11) when ordering. The Ray Allen Gear Bezel Switch (RBS-GS) is the same custom bezel as above combined with SPDT retract gear toggle switch. The switch is rated at 15 amps and has a pull to unlock feature preventing accidental engagement. The Gear Bezel Switch comes with the labels pre-installed.

RAC Part No.	Description	Part No.	Price
RBS-T11	Bezel Switch - Toggle	11-01364	---
RBS-P11	Bezel Switch - Push Button	11-01365	---
RBS-GS	Bezel Gear Switch	11-01366	---
RBS-L1	Bezel Switch label sheet	11-01367	---

CORGI AVIATION ELECTRIC TRIM SERVOS

Corgi Aviation's trim servos are designed to control trim surfaces and other systems in homebuilt and other light aircraft applications. They are commonly installed alongside modern autopilot systems to provide auto-trim functionality, which reduces the need for pilots to trim the aircraft manually when under autopilot control. Corgi Aviation makes two styles of Trim Servos. Clevis and threaded shaft models are both available in different lengths.

Trim Servo	Type	Travel Length	Part No.	Price
CA-07C	Clevis End	0.7 inches	11-19712	---
CA-10C	Clevis End	1.0 inches	11-19713	---
CA-11C	Clevis End	1.1 inches	11-19714	---
CA-12C	Clevis End	1.2 inches	11-19715	---
CA-07T	Threaded End	0.7 inches	11-19716	---
CA-11T	Threaded End	1.1 inches	11-19717	---

FEELFLIGHT FLIGHT GRIP

The FeelFlight Grip is a newly developed and patented product inspired by the FAA FlySafe mission to reduce fatal loss of control accidents. The basic component is the unique haptic feedback control grip. This grip signals the pilot "angle of attack" and "inclination" by pulsing the fingers. This is accomplished by electronic solenoids inside the grip. Best rate of climb – Vy, is signaled at the ring finger. Best angle of climb – Vx, is signaled at the middle finger, and STALL is signaled at the index finger. Inadvertent stalls often become fatal because the pilot does not have his turn coordinated. This can result in a spin. There are signaling pins on the left side of the grip and right side of the grip that signal "inclination." The signal pulses the thumb on the left or the lower index finger on the right. Inclination is the same signal broadcast by the conventional "ball" instrument. Proper pilot maintenance of angle of attack and inclination is crucial for safe flight.

P/N 11-19003 ..... ---

FLIGHT GRIPS

#2

The control stick grips from Flight Grip are modular in design to allow maximum flexibility when specifying switches to control the various electrical items on your aircraft and for ease of installation and assembly. Two "off-the-shelf" configurations are listed below. The Model #2 grip provides for control of two functions using the rocker trigger switch. The trigger switch features momentary contact either side of center, with spring return to center OFF action. The Model #4 grip is the same as the Model #2, but adds two push-button switches for thumb activation in the top cap of the grip. The switch mounted closest to the thumb rest is a latching type (push on – push off), and the remaining switch is a momentary type. Left hand grips are available with all the same switch options. Grips are designed to fit 1-1/8" OD control sticks and adapter bushings are available to adapt to 1", 7/8" and ¾" OD control sticks.

#2 (Right Hand-2 Functions) .....P/N 11-02000 ..... ---
#4 (Right Hand-4 Functions) .....P/N 11-02050 ..... ---
#2L (Left Hand-2 Functions) .....P/N 11-06753 ..... ---
#4L (Left Hand-4 Functions) .....P/N 11-06754 ..... ---
Adapter Bushing 1".....P/N 11-06755 ..... ---
Adapter Bushing 7/8".....P/N 11-06756 ..... ---
Adapter Bushing 3/4".....P/N 11-06757 ..... ---

LANDING LIGHT	CABIN LIGHTS	BATTERY MASTER	ALTERNATE AIR	OFF
NAV LIGHTS	PANEL LIGHTS	AVIONICS MASTER	INVERTER	OFF
ROTATING BEACON	PULSE LIGHT	ALTERNATOR	CARB HEAT	OFF
STROBE LIGHTS	TAXI LIGHT	AUTOPILOT	ON	OFF
STARTER	DIMMER	PITOT HEAT	ON	OFF
ENGAGE	IGNITION No. 1	HYDRAULIC PUMP	OFF	OFF
FLAPS UP	IGNITION No. 2	LOW BOOST	ON	OFF
FLAPS DN	FUEL PUMP	HIGH BOOST	ON	OFF
CABIN FAN	AVIONICS MASTER A	BOOST PUMP	ON	OFF
CABIN AIR COLD	AVIONICS MASTER B	STANDBY ALTERNATOR	ON	OFF
CABIN AIR HOT	LEFT MAGNETO	TRIM MASTER	OFF	OFF
OXYGEN	RIGHT MAGNETO	PARKING BRAKE	OFF	OFF

TRIM SPEED CONTROLS

A trim motor that moves too fast can be distracting and dangerous in a high performance aircraft. The Trim Speed Control module lets you adjust the speed of a motor in trim sensitive applications. It has also been used in many 24 volt aircraft that are equipped with 12 volt trim motors. The module installs in-line in an existing trim system with only four connections and requires no external power supply. Trim speed is easily set on the module as required. This unit does not generate any noise during operation and draws zero current when not in use.

Example part selection - 24 volt aircraft with a small 12 volt trim motor would need a TSC24-LC.

There are four (continuous) options available:

TSC12-LC 12/14 volt operation 3A - 7A surge....P/N 11-11561 ..... ---
TSC24-LC 24/28 volt operation 3A - 7A surge....P/N 11-11562 ..... ---
TSC12-HC 12/14 volt operation 5A - 7A surge...P/N 11-11563 ..... ---
TSC24-HC 24/28 volt operation 5A - 7A surge...P/N 11-11564 ..... ---

CUSTOM TEAK WOOD AIRCRAFT GRIPS

Teak wood is beautiful, absorbs sweat, preventing any sticky slime build-up. Grips come in standard, master and ultra styles in left and right hand. The standard grip comes with a push button on its top with a special dust proof cover. Normally is used for a push-to-talk button, is normally open switch and is good for 250,000 cycles minimum. The master grip has larger head to accommodate a 4-way trim switch & push-to-talk button.

The trim switch is the same one used with M.A.C. systems. The ultra grip has a larger surface to accommodate the 4-way trim and a auto-pilot and/or air brake with the push-to-talk located near the tip of the index finger. The ultra can handle a total of four switches, when using the air brake, in its head. Configurations can also be custom designed. All grips come with buttons and a 3/4", 7/8", 1" or 1-1/8" standard bore. Larger bores available.

Comes with Push-to-Talk, Cooley Hat, Flap, Autopilot and Radio Flip Flop.

VISIT WWW.AIRCRATSPRUCE.COM FOR COMPLETE LISTING OF GRIPS AND PRICING.

HOMEBUILT CONTROL STICKS

These homebuilt control grips are made of high-strength urethane plastic, finish painted in matte black and come complete with all necessary hardware (AN screw, nut, washers). Available unbored or bored to accept 7/8", 1", or 1-1/8" diameter tubing.

All of these grips (except unbored) are available w/PTT Switch at $129.75 Add -1 to end of part number for PTT.

Grip	Bore	Part No.	Price
Right	Unbored	11-01010	---
Right	7/8" Bore	11-01015	---
Right	1" Bore	11-01020	---
Right	1-1/8" Bore	11-01025	---
Left	Unbored	11-01010-L	---
Left	7/8" Bore	11-01015-L	---
Left	1" Bore	11-01020-L	---
Left	1-1/8" Bore	11-01025-L	---
Neutral	Unbored	11-02010	---
Neutral	7/8" Bore	11-02015	---
Neutral	1" Bore	11-02016	---
Neutral	1-1/8" Bore	11-02017	---

EL

SMARTSTART MODULE

An electronic control module that controls the operation of the engine starter system. Improves the safety and security of push-button or key-switch starting systems by providing an interlocked and time limited operation of the engine starter. SmartStart controls standard aviation starter contactors and provides simple integration of control stick switch or panel mounted start switches. SmartStart includes inputs for interlock and arming switches and provides a 1 minute timer for activating the starter contactor and includes an armed LED that indicates when the engine may be started. Helps avoid unintentional activation of the engine starting system.

Description	Part No.	Price
Smartstart Module	11-08499	---
SmartStart Module Kit - Includes: module, wiring harness, and airspeed switch	11-08502	---
Accessories		
Description	**Part No.**	**Price**
Smartstart Wiring Harness	11-08501	---
Airspeed Switch 40 Knot for 2 speed function	11-08665	---

INTELLIGENT POWER STABILIZER

Provides aircraft bus voltage surge and sag protection for the connected electrical equipment. The IPS system allows electronic equipment such as engine monitors, EFIS and GPS's to be operational before and during engine starting. Used with aircraft engine monitors it ensures the pilot can monitor critical engine operating parameters such as oil pressure during the engine starting process. Ensures the connected electronic equipment is provided with a stabilized source of power even when the aircraft battery voltage drops significantly. Features a panel mounted low voltage warning light which may be used to provide a pilot warning when the aircraft bus voltage falls below 12 volts.

4 amp.....P/N 11-08495 ..... ---
8 amp.....P/N 11-08496 ..... ---

INTELLIGENT POWER STABILIZER 24 VOLTS, 5 AMP

The Intelligent Power Stabilizer, IPS, is an electronic power converter for critical electrical equipment found in general aviation aircraft. The IPS system provides aircraft bus voltage surge and sag protection for the connected electrical equipment. The IPS system will operate over an input voltage range from 10 volts to 30 volts and provides a regulated output voltage of 24 volts. The IPS system allows electronic equipment such as engine monitors, EFIS and GPS's and radios to be operational before and during engine starting.....P/N 11-09712 ..... ---

INTELLIGENT LIGHTING CONTROLLER

Designed specifically to operate the lighting circuits used in homebuilt aircraft. Provides control of up to 4 lighting circuits plus dimmable control of up to 3 channels of instrument and cabin lights. The 4 lighting circuits may be used to control landing lights, taxi lights, strobe lights and navigation lights. Each channel is independently powered and controlled. Provides a wig-wag function between two of the lighting circuits. Each dimmable channel may include incandescent or LED lighting up to 1 amp.

Specifications: • Input Voltage: 10-30 volts DC • Output Voltage: 4-Switched circuit rated at 10 amps each, 3 - Dimmed circuits rated 1 amp each • Dimmers: True DC:DC converter with full power filtering and regulated 2-12 volt outputs • Inputs: All switch inputs are low current closures to +voltage • Wig-Wag: 150 cycles/minute between channel 1&2; 1 minute warm-up time • Wiring: Standard 15-pin D-sub connector (male on controller) for connection to switching panel. • Enclosure: Overall dimensions 4.7" x 3.7" x 1.2"; Cast aluminum • Weight: 1.0 lb ..... P/N 11-08497 ..... ---

UNIVERSAL SWITCH-SPDT AIRSPEED KIT

Universal switch airspeed kit (USW-1) includes an ASW-1 airspeed switch and a Universal Switch-SPDT controller. This combination of components allows for the switching of electrical loads up to 10 amps and up to 30 volts based on aircraft speed. The airspeed set point is factory calibrated to 100 knots, however, it may be field adjusted to switch at any speed between 55 and140 knots. Provides both a normally open and a normally closed contact for controlling any electrical load up to 10 amps. The system works with aircraft power systems from 10-30 volts.....P/N 11-08498 ..... ---

TCW SAFETY-TRIM AUTOPILOT SERVO BOOSTER

Designed for standard electric trim servos, the Safety-Trim Intelligent Servo Controller (Safety-Trim) is an electronic speed control system for experimental aircraft. Safety Trim Servo Booster is designed specifically to receive input commands from compatible autopilot systems, such as the Garmin G3X GSA 28 or a traditional DPDT type rocker switch. Safety Trim Servo Booster operates DC electric servo motors up to 10 amps of rate current.

12V .....P/N 11-19271 ..... ---
24V .....P/N 11-19272 ..... ---

TCW SAFETY-TRIM SERVO CONTROLLER

An electronic speed control system for standard electric trim servos found on many homebuilt aircraft. It replaces other speed controllers and relay modules with an electronic solution that resolves issues such as run-away trim and failure to operate conditions.

Features: Very simple wiring, no extra parts needed for pilot and co-pilot trim switches • Designed for standard electric trim servos, such as the Ray Allen T2 & T3 series • Short circuit proof, reverse polarity protected • 1 axis, 2 axis models available • For Experimental aircraft only NOT TSO'd • Made in USA -- patented.

Specifications: • Input voltage: 10-30 volts DC • Output voltage: User adjustable 6-12 volts DC 1 amp maximum • Enclosure: Overall dimensions 5.7" x 2.5" x 1.5" • Weight: 6oz.

Description	Part No.	Price
Safety-Trim Single Axis Servo Controller	11-08506	---
Safety-Trim Single Axis, 2 Speed Servo Controller	11-08529	---
Safety-Trim Dual Axis Servo Controller	11-08530	---
Safety-Trim Dual Axis, 2 Speed Servo Controller	11-08531	---
Accessories		
Description	**Part No.**	**Price**
Safety-trim 8 ft wiring harness for single axis controller	11-08532	---
Safety-trim 8 ft wiring harness for dual axis controller	11-08533	---
Airspeed Switch 100 Knot for triggering 2 speed function	11-08534	---

TCW CONTROL VALVE SERVO KIT

Fully proportional linear actuator servo for valves and dampers: Ideal for: Heater flapper doors, Oil cooler control, Alternate air door, Ventilation dampers.

P/N 11-11298 ..... ---

TCW CONTROL VALVE SERVO BUTTERFLY VALVE

Butterfly Valve for oil coolers works with the TCW Control Valve Servo Kit....P/N 11-11299 ..... ---

TCW INTEGRATED BACK UP BATTERY SYSTEM

The Integrated Back-up Battery System provides back-up power to critical electronics such as EFIS, GPS, Navigators, Radios, Autopilots and Engine monitors. The IBBS is an fully automatic system that combines a Li-FE-PO4 battery pack, a smart charger and switching logic in one convenient package. The IBBS provides an engineered solution to enable an endurance bus for critical electrical loads found in today's aircraft. It simplifies wiring and installation of a source of back-up power by integrating all the key elements into a single enclosure. The IBBS system is an FAA approved article produced exclusively by TCW Technologies, LLC under TSO-C179(a). Compliant with DO-311 & DO-160.

3AH.....P/N 11-15479 ..... ---
6AH.....P/N 11-15480 ..... ---

TCW INTEGRATED BATTERY BACKUP SYSTEM FAA CERTIFIED INSTALLATION KITS

The Integrated Battery Back-up System (IBBS) provides an engineered solution to enable an endurance bus for critical loads found in aircraft. The IBBS system provides back-up power to critical electronic loads such as EFIS, GPS, Autopilots and engine monitoring systems.

FAA Certified Installation Kit - 12V .....P/N 11-19274 ..... ---
FAA Certified Installation Kit - 24V .....P/N 11-19275 ..... ---
FAA Certified STC Data Package
With Permission Letter .....P/N 11-19276 ..... ---

TCW INTELLIGENT FLAP CONTROL

Intelligent Flap Controller (IFC) is an electronic controller designed specifically to operate DC motor actuators, particularly the Van's Aircraft series of Flap Actuators used in RV type homebuilt aircraft. IFC connects to the standard up-off-(down) switches commonly used to control flap operation and directly drives a Van's flap actuator. IFC provides Vfe protection by sensing airspeed and preventing flap deployment above a set airspeed. IFC allows for Pilot and Co-pilot flap switches and resolves the possible conflicts if the switches are operated in opposite directions. IFC requires NO flap position sensor and is fully compatible with Safety-Trim servo controllers.....P/N 11-13462 ..... ---

TCW IBBS CHARGER CABLE

This plug-in AC powered charger specifically designed for the IBBS system. This new charger lets you easily recharge and IBBS battery back, keep it topped of over the winter and fast charge it after yearly condition inspections.

12V.....P/N 11-09444 ..... ---
24V.....P/N 11-19273 ..... ---

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SEE WWW.AIRCRAFTSPRUCE.COM FOR SPECIFICATIONS ON TCW PRODUCTS.

IGNITION SWITCHES

ACS KEYED IGNITION SWITCHES

11-03169

11-03170

MFG BY ACS PRODUCTS CO.

These fine quality switches are being used in many aircraft. The switch housing is now machined from billet aluminum which makes this switch 25% lighter. They provide "ON" and "OFF" electrical control of broth magnetos on single engine aircraft. The key-operated switches mount from the rear of the panel in a 7/8" dia. hole. Available with or without starter position.
Experimental aircraft only or 337 Form required for Production aircraft. Made in the U.S.A.
A-510-5 Experimental, without Starter Position, Supplied with switch plate and two keys. (diode not required).....P/N 11-03169 ..... ---
A-510-2 FAA/PMA with Starter Position, Supplied with switch plate two keys. (diode included) .....P/N 11-03170 ..... ---

ACS DOOR AND BAGGAGE LOCK SETS

The door and baggage locks furnished with the ignition switches above are also available separately. Set of two locks (one door and one baggage lock) furnished with one key mated to both locks. The baggage lock may be used as second door lock if preferred.....P/N 11-01600 ..... ---

REPLACEMENT ACS CUT KEYS

ACS Cut key based upon your ACS key number.
Multiple ignition switches & lock sets are available with the same key. This is a special order and extra charges & lead times will apply.

Description	Part No.	Price
A-3551-A: Double Sided Cut Key (Key Numbers 001-199) With Boot	05-04103	---

ACS LEVER TYPE IGNITION SWITCH

A-510-1 Lever Type - Twist-Knob Without Starter Position. (diode not required)
P/N 11-03176 ..... ---

Notice: The keys for ACS ignition switches are imported from Belgium and are the only keys that are approved replacements for use on ACS ignition switches. Aircraft Spruce furnishes only precut keys and does not offer key blanks. Generic keys can create an unsafe condition and may void the FAA approval for the ACS ignition switch. Aircraft Spruce is the only approved provider of replacement keys for ignition switches manufactured by ACS Products Co.

ACS IGNITION SWITCH AND LOCK SETS

MODEL NO. A-510-5K

Includes ignition switch without starter position, two aircraft locks (one door and one baggage lock)* and two keys mated to ignition switch and locks. (Diode not required).....P/N 11-03171 ..... ---

MODEL NO. A-510-2K

Includes ignition switch with starter position, two aircraft locks (one door and one baggage lock)* two keys mated to ignition switch and locks. (diode included).....P/N 11-03172 ..... ---
* Baggage lock may be modified to second door lock if preferred.

ACS IGNITION SWITCH PLATES

11-03667

11-03668

Plate without start - A-2255-A1 .....P/N 11-03668 ..... ---
Plate with start - A-2255-A .....P/N 11-03667 ..... ---

ACS STARTER SOLENOID DIODE ASSEMBLY

This is required for all new A-510-2 and A-510-2K ignition switches for compliance with ACS Service Bulletin SB92-01.
Diode Assembly for Starter Solenoid with one or Two Coil Contacts
P/N 16050-2..... ---

BENDIX IGNITION SWITCHES

MODEL NO. 10-357200-1

With Starter Position. Includes two keys. Furnished with Switch Plate ..... ---

MODEL NO. 10-357210-1

With push to start feature. Includes two keys. Furnished with Switch Plate ..... ---

BENDIX SWITCH PLATES

10-51127

10-126676

Without Starter Position Switch Plate.....P/N 10-51127 ..... ---
With Starter Position Switch Plate.....P/N 10-126676 ..... ---

BENDIX STARTING VIBRATORS

Part Number	Description	Used with Ignition System	Price
10-176487-121	12V DC	S-200, S-600, S-700	---
10-357487-241	24V DC	S-200, S-600, S-700	---
10-357487-242	24V DC	S-1200	---
10-176485-121	12V DC W/Relay	S-200, S-600, S-700	---
10-176485-242	24V DC W/Relay	S-1200	---

INTELLIKEY NG NORSEE CERTIFIED

Note: For Certified Aircraft
Certified for Part 23 aircraft under NORSEE
The Smart Way To Start Your Plane!
Start your plane similar to how you would start your car – with your key in your pocket. When you approach your plane your connected lights will turn on to help light up a dark hangar or night. Once you turn on your master, Intellikey will determine authenticity of the key to enable start circuit activation and allow start if the key is valid. Alternatively, you can connect to Intellikey with your phone to activate with your 4 digit pin.
Intellikey NG is the latest edition of our Intellikey product offering bringing many new features and will be the first product in the Intellilink lineup of products that we will be bringing to market ... P/N 11-20062 ..... ---

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SINGLE AXIS TRIM RELAY BOARD

These Trim Relay Boards allow control of an aircraft's trim motors from the typical switches found in most stick grips. As the switches in the grips are too small to handle the motor loads and usually do not have the required number of poles, the 'TRB' offers a simple, elegant solution that is easy to wire and understand. The boards have a per axis rating of 10A at 12 volts. 4.00"L x 2.50"W x 1.00"H.

12V .....P/N 11-09849 ..... ---
24V .....P/N 11-13714 ..... ---

3 AXIS TRIM RELAY BOARD

3 Axis trim relay and buffer board has been designed to allow easy control of trim motors from small grip mounted or remote switches. Three Axis control is possible with each of the circuits being configured in a double throw format. "Off" circuit conditions apply ground to both motor wires providing an effective braking actions. Board will work with single or winding DC motors. Other remote controls are possible such as auto pilot disconnect or recognition lights and more. Relays are continuous DC rated at 10 Amps. 5.6"L x 4"W x 1.0"H.

P/N 11-02043 ..... ---

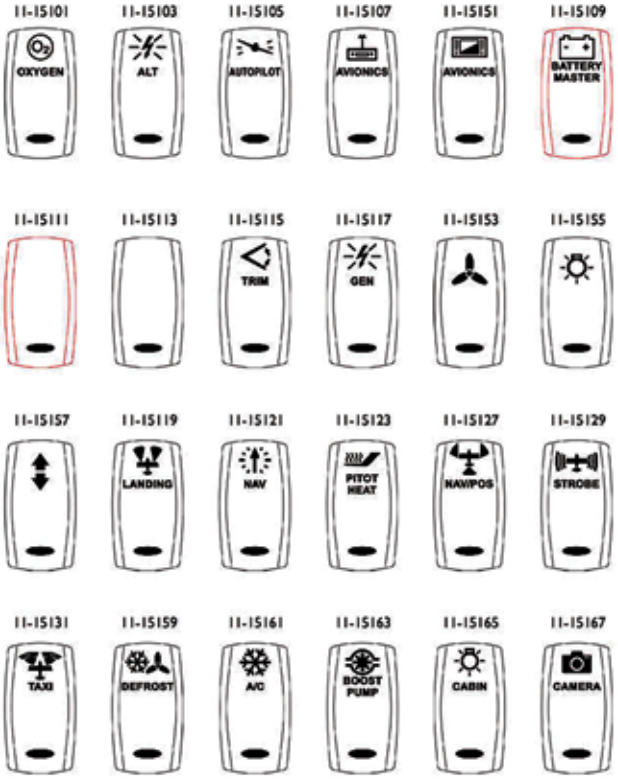
TRIM SWITCHES

TRIM SWITCH CA100-1 - The CA100-1 switch is used on a certified aircraft. It uses MIL-SPEC switches (SPST) and precision machined from aircraft aluminum and will not crack or break like cheap plastic switches. It has a nice tactile click action ....P/N 11-07355 ..... ---

CARLING SWITCHES AND COVERS

Carling' sealed V-Series Contura switches are well known for their cutting edge design, high quality, maximum performance and unmatched reliability. These switches are a staple in the marine and transportation industries and have passed a range of environmental, corrosion, temperature, vibration, shock and sealing tests including MIL Std 202F, MIL Std 510.1, UL 1500, ISO 8846, IEC 60529 and BS 5490 among others, making them one of the most rugged and reliable switches ever manufactured.

Features: • Certified to IP66/68 with dual seals around lamps and rocker stem. • Silver plated butt contact mechanism provides reliability up to and beyond 100K electrical cycles • Greaseless construction withstands temperature extremes down to -40° C • The switch accommodates up to 10 terminals and endless illumination and circuit options. • The switch connector allows the user to preload FQC terminals for ease of assembly. • Numerous choices of removable rockers allow for style change without having to retest or re-qualify the switch base.



Steps	Model No.	Description	Contact	Part No.	Price
1. Pick Your Switches	V1D1-S00B	On-Off No Light	SPST	11-15079	---
	VLD1-S00B	(On)-Off-(On) No Light	DPDT	11-15080	---
	V8D1S00B	(On)-Off-(On) No Light	SPDT	11-15081	---
	VJD1-S00B	On-Off-On No Light	DPDT	11-15082	---
	V6D1-D66B	On-Off-On No Light	SPDT	11-15083	---
	V1D1-B60B	On-Off White Light	SPST	11-15084	---
	V2D1-S00B	(On)-Off White Light	SPST	11-15085	---
	VJD1-D66B	On-Off-On White Light	DPDT	11-15086	---
	VLD1-A60B	(On)-Off-(On) White Light	DPDT	11-15087	---
	V1D1-G66B	On-Off White Light	SPST	11-15088	---
	V2D1-A60B	(On)-Off White Light	SPST	11-15089	---
	V4D1-A60B	On-On White Light	SPDT	11-15090	---
	V7D1-A60B	On-Off-(On) White Light	SPDT	11-15091	---
	VJD2-U66B	On-Off-On White Light	DPDT	11-15092	---
	V1D1-GCCB	On-Off Red Light	SPST	11-15093	---
	V2D1-ACOB	(On)-Off Red Light	SPST	11-15094	---
	VJD2-ACOB	On-Off-On Red Light	--	11-15095	---
	VLD1-ACOB	(On)-Off-(On) Red Light	DPDT	11-15096	---
	V1D1-GXXB	On-Off Blue Light	SPST	11-15097	---
	V2D1-AXOB	(On)-Off Blue Light	SPST	11-15098	---
	VJD2-UXXB	On-Off-On Blue Light	DPDT	11-15099	---
	VLD1-AXOB	(On)-Off-(On) Blue Light	DPDT	11-15100	---
	VAD1-G66B	On-Off Ind White	DPST	11-18719	---
	V2D1-S00B-LIT	(On)-Off White	SPST	11-18720	---
	V2D1-AW0B	(On)-Off Ind White	SPST	11-18722	---
	VJD2-UWWB	On-Off-On Ind White	DPDT	11-18723	---
	VLD1-AW0B	(On)-Off-(On) Ind White	DPDT	11-18724	---
2. Pick Your Covers	--	Oxygen	--	11-15101	---
	--	Alternator	--	11-15103	---
	--	Autopilot	--	11-15105	---
	--	Avionics	--	11-15107	---
	--	Battery Master Avionics	--	11-15109	---
	--	Red Blank	--	11-15111	---
	--	Black Blank	--	11-15113	---
	--	Trim	--	11-15115	---
	--	Generator	--	11-15117	---
	--	Landing	--	11-15119	---
	--	Nav	--	11-15121	---
	--	Pitot Heat	--	11-15123	---
	--	Nav/Pos	--	11-15127	---
	--	Strobe	--	11-15129	---
	--	Taxi Custom Switch	--	11-15131	---
	--	Glass Panel Avionics	--	11-15151	---
	--	Fan	--	11-15153	---
	--	Light	--	11-15155	---
	--	Up/Down	--	11-15157	---
	--	Defrost	--	11-15159	---
	--	Air Conditioning	--	11-15161	---
	--	Boost Pump	--	11-15163	---
	--	Cabin Light	--	11-15165	---
	--	Camera	--	11-15167	---
3. Pick Your Brackets	--	End	--	11-15139	---
	--	Middle	--	11-15141	---
	--	Single	--	11-15143	---
4. Pick Your Mounts	44385	VHP Mounting Panel Plug	--	11-15449	---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

KLIXON 7270-5 CIRCUIT BREAKERS

Klixon 7270 series circuit breakers were designed to utilize less space behind the panel while protecting wire and cable in aircraft and ground support equipment on 120 VAC, 400 Hz or 30 VDC systems. Inherently resistant to shock and vibration, the Klixon disc element is capable of calibration within close tolerances throughout the service life of the breaker. **Features**: Trip–free operation, Snap–acting thermal element, Small size, Light weight, MIL-C-5809 qualified, High interrupting capacity, Typical use: Aircraft and ground support equipment. **Specifications**: Vibration: 10G minimum, 50–500 Hz (other vibration levels available). Mechanical Shock: 30G. Acceleration: 10G. Weight: 39 grams maximum (7270-1 and 7271-8). Interrupt Current: 4,000 amps at 30 VDC;3,500 amps at 120 VAC, 400 Hz. Endurance: 5,000 cycles: 120 VAC. 400 Hz, inductive;5,000 cycles: 120 VAC 400 Hz, resistive;5,000 cycles: 30 VDC, inductive;2,500 cycles: 30 VDC, resistive;5,000 cycles: Mechanical, no load.

Description	Current Rating	Part No.	Price
7270-5-3	3 amps	11-08344	---
7270-5-5	5 amps	11-08345	---
7270-5-7.5	7.5 amps	11-08346	---
7270-5-10	10 amps	11-08347	---
7270-5-15	15 amps	11-08348	---
7270-5-20	20 amps	11-08349	---
7270-5-25	25 amps	11-08350	---
7270-5-30	30 amps	11-08351	---
7270-5-35	35 amps	11-08352	---

KLIXON 7274-2 CIRCUIT BREAKERS

Klixon 7274 series are small, lightweight, low amperage devices that are specifically designed to protect aircraft/aerospace cable and components in airborne vehicles and equipment. The commercial grade version is the Klixon 7277 series. The 7274 features a trip–free, indicating reset button and is available in standard ratings from ½ to 20 amps. A "wiping action" contact design assures low voltage drop, faster trip time and high reliability in low voltage applications. They are available in standard ratings from ½ to 20 amps. A water resistant panel seal designed to fit over the push button actuator is available for applications that require this type of protection. **Features:** Uses minimum space, Light weight, Trip–free, MIL-C-5809 qualified, Low amp, High vibration resistance, Typical use: Military airborne vehicle and equipment protection. **Specifications:** MS#: MS26574-1.5. Vibration: 10G minimum, 50–500 Hz (other vibration levels available). Mechanical Shock: 35G. Acceleration: 10G. Weight: 7274-2 (MS 26574): 28 grams maximum; 7274-4 (MS 26574 A): 28 grams maximum; 7274-11 (MS 22073): 33 grams maximum; 7274-69 (MS 22073V): 33 grams; 7274-70 (MS 26474L): 33 grams. Interrupt Current: 0.50–5 amps: unlimited at 28 VDC; 7.50–15 amps: 2,000 amps at 28 VDC; 0.50–1.50 amps: unlimited at 120 VAC, 400 Hz; 2–5 amps: 800 amps at 120 VAC, 400 Hz; 7.50–20 amps: 500 amps at 120 VAC, 400 Hz. Endurance: 2,500 cycles: 120 VAC, 400 Hz inductive; 5,000 cycles: 120 VAC, 400 Hz resistive; 2,500 cycles: 30 VDC inductive; 5,000 cycles: 30 VDC resistive; 10,000 cycles: Mechanical, no load

Description	Current Rating	Part No.	Price
7274-2-.5	0.5 amps	11-16406	---
7274-1	1.0 amps	7274-2-1	---
7274-2-1.5	1.5 amps	11-08353	---
7274-2-2	2 amps	11-08354	---
7274-2-2.5	2.5 amps	11-08355	---
7274-2-3	3 amps	11-08356	---
7274-2-4	4 amps	11-08357	---
7274-2-5	5 amps	11-08358	---
7274-2-7.5	7.5 amps	11-08359	---
7274-2-10	10 amps	11-08360	---
7274-2-15	15 amps	11-08361	---
7274-2-20	20 amps	11-08362	---

KLIXON 3TC7 CIRCUIT BREAKER

A lightweight, high performance, non–ambient temperature compensated circuit breaker. The series features a trip–free design that prevents the circuit breaker from being closed manually on overload. **Features**: Miniature size, Light weight, Trip–free design, Current rating: 5 amps, AS58091 qualified (MS25244), High vibration resistance, Typical use: Aircraft, avionics and electrical systems. **Specifications**: MS25244-5. Voltage Drop: 0.25. Vibration: 10G. Mechanical Shock: 30G at peak. Acceleration: 10G. Weight: 38.9g. Operating Altitude: 65,000 ft

Description	Current Rating	Part No.	Price
3TC7-5	5 amps	11-08374	---
3TC7-7.5	7.5 amps	11-08375	---
3TC7-10	10 amps	11-08376	---
3TC7-15	15 amps	11-08377	---
3TC7-20	20 amps	11-08378	---
3TC7-25	25 amps	11-08379	---
3TC7-30	30 amps	11-08380	---
3TC7-35	35 amps	11-08381	---

KLIXON 2TC2 CIRCUIT BREAKER

Their light weight and small size make them especially well suited for aircraft, avionics and electronic systems. The Klixon trademark has set the standard for aerospace circuit breakers and the TC series offers the endurance and reliability required by exacting military specifications. The 2TC series breaker ratings are coordinated so any rating will trip before another rating twice its capacity in the event of a fault. of up to 6,000 amps let–thru current. This results in improved overall equipment performance since only the smallest faulted circuit is interrupted, while larger circuits remain operational. Ambient compensated circuit breakers let designers specify smaller gauge wire where the circuit breaker and wiring are exposed to different ambient temperatures. They are especially suited for application where ambient temperature exceeds the 160°F (71°C) maximum of non–ambient compensated thermal circuit breakers. The TC series may be applied where operating temperatures are as high as 250°F (121°C) with no derating of the circuit breaker. This eliminates the need for cooling air and allows substantial weight, space, and cost savings. The complete line of TC series circuit breakers is trip–free. The circuit breaker cannot be maintained closed during an overload even with the actuator button held closed. For its miniature size, the 2TC series offers unusually high current interrupting capacity. Overloads can be safely interrupted without affecting calibration or operating performance in the standard 2TC series for: • Overloads up to 6,000 amps at 28 VDC • Overloads of 2,000–3,500 amps at 120 VAC, 400 Hz. **Features**: Miniature size, Light weight, Trip–free design, High vibration resistance, High interrupting capacity, Coordinated ratings, AS58091 qualified (Also: Military Approvals, FAA PMA), Typical end use: Aircraft power distribution systems **Specifications**: Vibration 10G minimum, 50–500 Hz (other vibration levels available) Mechanical Shock 50G. Acceleration 10G

Description	Current Rating	Part No.	Price
2TC2-1	1 amps	11-08382	---
2TC2-2	2 amps	11-08383	---
2TC2-2-1/2	2.5 amps	11-08384	---
2TC2-3	3 amps	11-08385	---
2TC2-4	4 amps	11-08386	---
2TC2-5	5 amps	11-08387	---
2TC2-7.5	7.5 amps	11-08388	---
2TC2-10	10 amps	11-08390	---
2TC2-15	15 amps	11-08394	---
2TC2-20	20 amps	11-08395	---
2TC2-25	25 amps	11-08396	---

KLIXON 6752100-100 CIRCUIT BREAKERS

Klixon 6752-100 series thermal–magnetic circuit breakers are designed and manufactured to meet stringent military standards with the reliability of the 6752 design. The 6752-100 is similar to the 6752-12 in size, and includes current ratings ranging from 50 to 100 amps.

The higher interrupting capacity, vibration resistance and longer cycling life of the 6752-100 series exceed previous military standards. In addition, the 6752-100 series provide ambient compensation, fault coordination of all ratings an option for auxiliary circuits.

The 6752-100 series circuit breakers maintain their performance capabilities by means of a thermal compensator in the temperature range of -40°C to 70°C.

A deionizing grid and magnetic assist enable the 6752-100 series to successfully interrupt four fault currents of 6,000 amperes — two at sea level and two at 60,000 feet — on either a 120 VAC, 400 Hz system or a 30 VDC system. **Features:** Proven reliability and performance of the 6752 series circuit breaker, Trip–free design, Circuit protection unaffected by temperature fluctuations MIL-C-5809 qualified, Ambient compensated, High vibration resistance, High interrupting capacity: 6,000 amps, Typical use: Military, **Specifications:** Vibration: 10G, 50–2,000 Hz (other vibration levels available). Mechanical Shock: 30G. Acceleration: 10G. Weight: 113.6 gram (0.25 pound) maximum. Interrupt Current: 120VAC, 400 Hz: 3,500 amps; 28 VDC: 6,000 amps. Endurance: 5,000 cycles: 120 VAC, 400 Hz inductive;5,000 cycles: 120 VAC, 400 Hz resistive; 2,500 cycles: 28 VDC, 400 Hz inductive; 5,000 cycles: 28 VDC, 400 Hz resistive; 5,000 cycles: Mechanical, no load

Description	Current Rating	Part No.	Price
6752100-50	50 amps	11-08397	---
6752100-60	60 amps	11-08398	---
2752100-70	70 amps	11-08399	---
6752100-75	75 amps	11-08400	---
6752100-80	80 amps	11-08401	---
6752100-90	90 amps	11-08402	---
6752100-100	100 amps	11-08403	---

KLIXON 7270 & 7271 CIRCUIT BREAKERS

The Klixon 7270/7271 series circuit breakers were designed to utilize less behind panel space while protecting wire and cable in aircraft and ground support equipment on either 120 VAC, 400 Hz or 30 VDC systems. The units are available with neck mounting (7270-1 and 7271-8) or standard cover plate (7270-7 and 7271-3). In each of these Klixon circuit breakers, the bi-metallic element assures uniform current distribution throughout its responsive area. This design reduces current density at the critical areas, resulting in an element having a much higher interrupting capability than conventional design. Inherently resistant to shock and vibration, the Klixon disc element is capable of precise calibration settings and will retain the initial calibration within close tolerances throughout the service life of the breaker. Both circuit breakers have conventional actuator action; i.e., the toggle actuator on the 7270 moves to the OFF position for trip indication and the button the 7271 pops out. A standard black button with a white collar is used.

Features: • Trip-free • Snap-acting Thermal Element • Simplicity of Design • Lightweight • High Rupture Capacity - 3500 Amps, 120 VAC, 400 Hz 4000 Amps, 30 VDC • Small Size

Part No.	Price
7270-1-3	---
7270-1-5	---
7270-1-7.5	---
7270-1-10	---
7270-1-15	---
7270-1-20	---
7270-1-25	---
7270-1-30	---
7270-1-35	---
7270-7-3	---
7270-7-5	---
7270-7-7.5	---

Part No.	Price
7270-7-10	---
7270-7-15	---
7270-7-20	---
7270-7-30	---
7270-7-35	---
7271-3-3	---
7271-3-5	---
7271-3-7.5	---
7271-3-10	---
7271-3-15	---
7271-3-20	---
7271-3-25	---

Part No.	Price
7271-3-35	---
7271-8-3	---
7271-8-5	---
7271-8-71/2	---
7271-8-10	---
7271-8-15	---
7271-8-20	---
7271-8-25	---
7271-8-30	---
7271-8-35	---

The last dash no. in the Part Number is the Amperage rating

KLIXON 7277 CIRCUIT BREAKERS

The 7277 series circuit breakers is physically and electrically identical to the 7274-2 style circuit breaker, with the exception that the 7277 series has wider calibration limits. Originally developed as an alternative to slow blow fuses, the trip free 7277 is used extensively as primary electrical circuit protection on general aviation aircraft. The wider calibration limits of the 7277 has also resulted in applications including protection for data processing and telecommunications equipment, computers, flight simulators, construction, material handling and other industrial electronic equipment.

Features: The 7277 series is designed for applications that do not require the tighter performance characteristics and approvals of our military circuit breakers. • Small size • Light Weight • Inexpensive Auxiliary switch 7277-1 Only Longer Push Buttons 7277-5 Only

Temp.	Min Ult	Max Ult	Trip Time - Seconds		
°C	Traip	Trip	200%	500%	1000%
+25	110%	150%	2-35	.15-1.75	.028-.8

*** Performance characteristics and dimensions are equivalent to 7274**
Calibration: 1/2 - 20 amps*

Part No.	Price
7277-5-1	---
7277-5-2	---
7277-5-3	---
7277-5-5	---
7277-5-7.5	---
7277-5-10	---
7277-5-15	---
7277-1-1	---
7277-1-2	---

Part No.	Price
7277-1-3	---
7277-1-4	---
7277-1-7.5	---
7277-1-10	---
7277-1-15	---
7277-2-1/2	---
7277-2-3/4	---
7277-2-1	---
7277-2-1.5	---

Part No.	Price
7277-2-2	---
7277-2-2.5	---
7277-2-3	---
7277-2-4	---
7277-2-5	---
7277-2-7.5	---
7277-2-10	---
7277-2-15	---
7277-2-20	---

ELECTRICAL PLUG CONNECTORS

Make your panel a "plug and play" panel with these heavy-duty electrical connectors. The connectors are designed for either panel mount or free hanging. Connectors are available in 4, 6, 9, 12, 18, 24, and 36 pin configurations. Choose the pins and sockets based on wire size. The pins and sockets are top quality and are gold/nickel plated. The plugs are sold in pairs and include both the plug and the connector.

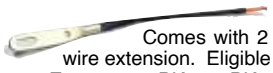
Connectors	Part No.	Configuration	Price
SPT015/16	11-02147	4 pin	---
SPT152/153	11-02148	6 pin	---
SPT039/40	11-07356	9 pin	---
SPT017/18	11-02149	12 pin	---
SPT442/43	11-02150	18 pin	---
SPT019/20	11-07357	36 pin	---
Pins	**Part No.**	**Wire Gauge Size**	**Price**
SPT103-1	11-02153	24/20	---
SPT099-1	11-02154	18/16	---
Sockets	**Part No.**	**Wire Gauge Size**	**Price**
SPT105-1	11-02155	24/20	---
SPT101-4	11-02156	18/16	---

SEAL-ALL CRIMP TOOL - Crimp tool works with all Seal-All Terminals and seals. Its compact, low-cost parallel jaw design eliminates terminal rocking.....P/N 11-06592 ..... ---

STATIC DISCHARGERS

ESD-1 STATIC WICK - Length: (including mounting base) 7.65 inches. (discharger element) 4.75 inches. Weight: Less than 4.5 grams. Airspeed: To 150 knots. Altitude: To 20,000 feet msl. Temperature: +85°C to -55°C, MIL-STD0202C, Method 102A, Condition D. Solvents: No physical changes after one hour immersion in aviation gasoline, jet fuel or hydraulic fluids. Equivalent to Cessna P/N C592001-0201. Note: This is Non-Certified Version. Fully Qualified to MIL-D-9129D .....P/N 11-10574 ..... ---

EDS-3 STATIC WICK - Non-Certified. 7.65 inches. Weight: Less than 5.5 grams. Airspeed 300 knots +85°C to -55°C, MIL-STD-202C, Method 102A, Condition D. Tension: 50 pound pull longitudinal from plastic end to metal shank. No physical changes after one hour immersion in aviation gasoline, jet fuel or hydraulic fluids.....P/N 11-10681 .....

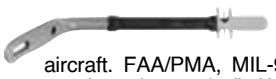


STATIC WICK
Comes with 2 holes to rivet to trainline edge and plain wire extension. Eligible For Installation: Beech Baron 58, Cessna 402, Eurocopter: BK117, BK117 C-2 .....P/N 11-04154 ..... ---

NULL FIELD TRAILING DISCHARGER
For general aviation & business class aircraft. FAA/PMA, MIL-9129D. Mounting: (2) #8-32 flat head screws. Length: 10-9/32". Wt: .78 oz. .....
P/N 11-16320 ..... ---

MICROPOINT TRAILING DISCHARGER
For general aviation aircraft (speeds below 300 mph). Mounting: (2) #4-40 screws, 100% countersunk. Length:8.75" Weight: 0.17 oz.
P/N 11-16630 ..... ---

MICROPOINT TRAILING DISCHARGER (FLEXIBLE)
For general aviation & business class aircraft. FAA/PMA, MIL-9129D. Mounting: 15401, 15488, 15660-1, or 16195 screw retainer. Length: 7-5/8" Wt: 0.53 oz. ..... P/N 11-16606 ..... ---



NULL FIELD TIP DISCHARGER
For general aviation & business class aircraft. FAA/PMA, MIL-9129D. Mounting: (2) #8-32 flat head screws. Length: 7-15/32". Wt: 0.53 oz ...P/N 11-16325 ..... ---

STATIC WICK WITH CARBON POINT
17770 Trailing Discharger: Mounting: Fits Chelton Retainer or DG p/n 540095. For Commercial & Business Class Aircraft. FAA PMA, MIL-9129D. Noise Quieting: 40+ db. Length: 7-7/8" Weight: 0.15 oz.
P/N 11-11504 ..... ---

EL

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TYCO CIRCUIT BREAKERS

These bi-metallic single pole breakers weigh less than 2oz. and especially suitable for homebuilt aircraft. Used as original equipment in Beech, Cessna and Piper aircraft. Max. operating voltages: 32 VDC & 250 VAC (to 400 Hz).

W23 SERIES

White band around body of reset button becomes visible if breaker trips. Has heater wire for fast tripping. 8-32 screw terminals.

W31 SERIES

These are combination single pole switches and circuit breakers. Has a plain steel toggle w/ rating inscribed on tip. 8-32 screw terminals.

W58 SERIES

Recessed reset button has red band around it for visible trip indication. 6-32 screw terminals.

P&B P/N	AMP Rating	Aircraft Application			Prices Ea.
		Beech	Cessna	Piper	
W23X1A1G1	1			111-201-105	---
W23X1A1G2	2			111-202-105	---
W23X1A1G3	3			111-203-105	---
W23X1A1G4	4			111-204-105	---
W23X1A1G5	5	CB-2305A	S-1232-5	454656	---
W23X1A1G7.5	7.5	CB-2307A			---
W23X1A1G10	10	CB-2310A		454657	---
W23X1A1G15	15	CB-2315A		454658	---
W23X1A1G20	20	CB-2320A		454659	---
W23X1A1G25	25	CB-2325A		454660	---
W23X1A1G30	30	CB-2330A		454661	---
W23X1A1G35	35	CB-2335A		454663	---
W23X1A1G40	40	CB-2340A		454665	---
W23X1A1G50	50	CB-2350A		454662	---
W31X2M1G5	5				---
W31X2M1G10	10				---
W31X2M1G15	15				---
W31X2M1G20	20				---
W31X2M1G25	25				---
W31X2M1G30	30				---
W31X2M1G35	35				---
W31X2M1G40	40				---
W31X2M1G50	50				---
W58XC4C12A1	1	431-201-101	S-1360-1A,-1L		---
W58XC4C12A2	2	431-202-101	S-1360-2A,-2L		---
W58XC4C12A3	3	431-203-101	S-1360-3A,-3L		---
W58XC4C12A4	4	431-204-101	S-1360-4A,-4L		---
W58XC4C12A5	5	435-205-101	S-1360-5,-5L	454668	---
W58XC4C12A7	7	435-207-101	S-1360-7,-7L		---
W58XC4C12A10	10	435-210-101	S-1360-10,-10L	454669	---
W58XC4C12A15	15	435-215-101	S-1360-15,-15L	454670	---
W58XC4C12A20	20	435-220-101	S-1360-20,-202		---
W58XC4C12A30	30	435-230-101	S-1360-30,-302		---

TYCO ROCKER TYPE CIRCUIT BREAKER

W33S2N1Q series breakers are 2 pole rocker actuated. Pole 1 is switch only, pole 2 is series trip overload sensing. These breakers are non-lighted with white rocker. W33S4B1Q series breakers are also 2-pole rocker actuated. Pole 1 is switch only, pole 2 is series trip overload sensing. These breakers feature 20 amp max. switch & amber plastic rockers.

Item / Description	Amps	Part No.	Price
W33S4B1Q-5 – Amber 24VDC	5	11-01887	---
W33S4B1Q-10 – Amber 120VAC	10	11-01888	---
W33S4B1Q-15 – Amber 120VAC	15	11-01889	---
W33S4B1Q-20 – Amber 120VAC	20	11-01976	---
W33S1N1Q-5 – Black	5	11-01977	---
W33S1N1Q-10 – Black	10	11-01978	---
W33S1N1Q-15 – Black	15	11-01979	---
W33S1N1Q-20 – Black	20	11-01980	---
W33S2N1Q-5 – White	5	11-01981	---
W33S2N1Q-10 – White	10	11-01890	---
W33S2N1Q-20 – White	20	11-01983	---

FUSE HOLDERS

These fuseholders are non-indicating, plate mounted. The body is molded black phenolic. Knob grips fuse and pulls it from holder when knob is removed. Spring provides contact pressure on ends of fuse. For use with fuse size 1/4" x 1-1/4". Type HKP.
P/N 11-13400 ..... ---

Nylon Twist-Lock in-line fuseholder. Supplied with 8" loop of 14-gauge wire and 1 spring to accommodate AGC fuses. Simple "twist-lock" allows easy fuse removal & replacement .....P/N 11-04010 ..... ---

Bayonet knob in-line fuseholder. Supplied with 8" loop of 14-gauge wire and 1 spring to accommodate AGC fuses. Simple "twist-lock" allows easy fuse removal and replacement.....P/N 11-01359 ..... ---

KLIXON 7274-11.75 CIRCUIT BREAKER

Klixon 7274 series are small, lightweight, low amperage devices that are specifically designed to protect aircraft/ aerospace cable and components in airborne vehicles and equipment. The commercial grade version of this circuit breaker is the Klixon 7277 series. The 7274 features a trip–free, indicating reset button and is available in standard ratings from ½ to 20 amps. They are available in standard ratings from ½ to 20 amps.

Description	Amps	Part No.	Price	Description	Amps	Part No.	Price
7274-11-1	1	11-08364	---	7274-11-5	5	11-08369	---
7274-11-2	2	11-08365	---	7274-11-7.5	7.5	11-08370	---
7274-11-2.5	2.5	11-08366	---	7274-11-10	10	11-08371	---
7274-11-3	3	11-08367	---	7274-11-15	15	11-08372	---
7274-11-4	4	11-08368	---	7274-11-20	20	11-08373	---

KLIXON CIRCUIT BREAKERS

Feature a bi-metallic snap-acting disc as the sensing element. Widely used in production and military aircraft. The most popular models are illustrated. Models PSM and PSM-N are available in the following ampere ratings: 2, 3, 5, 10, 15, 20, 25, 35. When ordering specify if neck-mounting style is wanted by placing "N" after ampere rating. Example: PSM-10N (P/N 11-04244)..... **--- ea.**
For weatherproof circuit breakers in ratings from 50 to 150 amperes, order Model PDLM. Example: PDLM-50 (P/N 11-04241) ..... **--- ea.**

60 AMP CIRCUIT BREAKERS FOR ALTERNATORS

These heavy duty circuit breakers are ideal for use with aircraft alternators and other applications using high amperage. 10-32 screw terminals. Size: 1-3/8"d x 1-3/8"h x 1/2"w. 60 Amp ..P/N 11-02191 ..... ---

70 AMP CIRCUIT BREAKERS FOR ALTERNATORS

These heavy duty 70 AMP circuit breakers are ideal for use with aircraft alternators and other applications using high amperage. 10-32 screw terminals. 1 3/8" D x 1 3/8" H x 1/2" W.....P/N 11-05652 ..... ---

ELECTRONIC CIRCUIT BREAKERS

These circuit breakers have no mechanical parts, except for the reset switch. The power switching and control components are completely solid state. They have added benefit of overvoltage and undervoltage protection. Will turn off if the input voltage goes too high, protecting valuable avionics or other equipment. The circuit breakers operate differently than conventional ones in the following ways: If the circuit breaker 'trips', the switch will remain in the up or on position, but a red LED will illuminate indicating the condition. To reset the circuit breaker, the switch is set to off, then back to on. Removing power from the circuit breaker via a master switch and then restoring power will perform the same function. If a short or overcurrent condition exists at the output, the circuit breaker will continue to trip off after a reset. The electronic circuit breaker is a 3-terminal device. In addition to the usual 2 terminals, a ground reference is required for the electronics to operate and as a reference for the overvoltage & undervoltage protection. The 14V circuit breakers will shutdown with an overvoltage of 16V & undervoltage of 10V. The 28V will shutdown with an overvoltage of 33V & undervoltage of 20V. Available in 14V & 28V versions, with the following current levels: 1A, 2A, 5A, 10A. Not FAA Approved. For experimental aircraft only.

Model No.	Amps	Volts	Part No.	Price
ECB-28-01	1	28	11-01156	---
ECB-28-02	2	28	11-01157	---
ECB-28-10	10	28	11-01159	---

FUSES

AGC-type fuses are glass-enclosed with a single fuse element. Fast acting to protect sensitive instruments and radios.
Fuse dimensions 1/4" dia. x 1-1/4" long.

Part No.	Ampere Rating	Price	Part No.	Ampere Rating	Price
11-03743	1	---	11-03745	15	---
11-03746	2	---	11-03747	20	---
11-03749	3	---	11-03748	25	---
11-03753	5	---	11-03750	30	---
11-03754	7	---	11-03751	35	---
11-03744	10	---			

EL

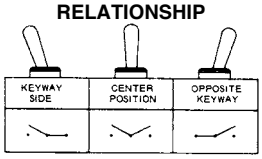
ULTRA-MINIATURE TOGGLE SWITCHES

Ultra-miniature switches are rated at 6 amps at 125V AC and 4 amps at 28V DC. Solid silver contacts. Terminals are gold flashed to inhibit oxidation and to provide easier soldering. Case material is green diallyl phthalate resin. Bushing thread size: 1/4-40, usable in panel thickness up to 1/4". Micro Switch Co. have discontinued the manufacture of the 8A and 8H type switches, so switches by alternate manufacturers will be furnished. In most instances, Alco switches will be supplied. Switches furnished complete with locking ring and attaching hardware.

Alco Sw. Part No.	Micro Sw. Part No.	Contact	Toggle Circuit*	Price Each
MTA-106D	8A1011	SPST	01	---
MTA-106E	8A1021	SPDT	02	---
MTA-106G	8A1041	SPDT	04	---
MTA-206N	8A2011	DPST	01	---
MTA-206P	8A2021	DPDT	02	---
MTA-206S	8A2041	DPDT	04	---
JMT-226	8A2061	DPST	06	---
MTA-306D	8A3011	3PDT	01	---
MTA-406N	8A4011	4PDT	01	---

*** See Toggle Circuit Table**

LEVER/CIRCUIT RELATIONSHIP



TOGGLE CIRCUIT TABLE

Toggle Circuit	Circuitry*		
	One Side	Center	Other Side
01	On	None	On
02	On	Off	On
04	(On)	Off	(On)
05	On	Off	(On)
06	On	None	(On)

***Use the "01" circuitry for On-Off switch. In hook-up, use center terminal & one side terminal. Leave other side terminal blank.**

The operating sequence above is repeated in multipole devices. Each pole has double-throw circuitry and consists of three terminals which exit at the bottom of the switch case. The keyway is a helpful reference when you are applying a switch with the momentary (ON) circuit at one of the extreme lever positions.

TOGGLE SWITCH COVERS

Dress up the appearance of your panel and color code your toggle switches with high quality vinyl covers that do not have a nipple at the end of the cover. Available in various colors.

Standard Size

Red ..... P/N 11-00815 ..... --- Green ..... P/N 11-00817 ..... ---
White ..... P/N 11-00816 ..... --- Blue ..... P/N 11-00819 ..... ---
Yellow ..... P/N 11-01698 ..... --- Black ..... P/N 11-02823 ..... ---

Mini Size

Red ..... 11-00820 ..... --- White ..... 11-00821 ..... ---

SUB-MINIATURE PUSH BUTTON SWITCH

This sub-miniature push button switch, with one-piece bushing and case construction, and hex nut. It has a relatively high current carrying capacity (3 amps at 125VAC) and a life expectancy of 25,000 operations at rated current. Momentary type SPDT switch, ideal for use as a mic switch on control wheel.

ON (ON) SPDT Plunger - 3A 250VAC Momentary Contact - .256 inch mounting hole

P/N 11-18894 ..... ---

LED ILLUMINATED TOGGLE SWITCHES WITH LEVER

20 AMP Silver Contacts

Single pole switches with Plastic Lever.

Note: Illuminated switches work as ON-OFF switches.

Red ..... P/N 11-17748 ..... ---
Amber ..... P/N 11-17750 ..... ---
Blue ..... P/N 11-17751 ..... ---

MS25224 SWITCH GUARDS

Prevents inadvertent operation of the switch. Switch can be operated only when the spring-loaded guard is lifted up. Returning guard to the down position forces the switch lever to the off position. Single-hole type for neck-mount switches such as AN3021 and AN3027. 3-hole type for panel-mounted switches such as AN3023. Color: Red.

MS25224-1 (one hole) ..... **--- Ea.**
MS25224-2 (3 holes) ..... **--- Ea.**

KLIXON SWITCH GUARDS

Spring Loaded Switch Guards. Klixon switch guards can be used with 2 or 3 position switches. Covers are molded out of Thermoset molding materials. Guard covers are spring loaded to close.

Description	Pos.	Color	Code	Part No.	Price
Phenolic	2	Red	2	11-04228	---
Metal	2	Green	4	11-06222	---
Phenolic	3	Red	9	11-06223	---
Phenolic	2	Red	10	11-03917	---
Phenolic	2	Red	11	11-06225	---

CESSNA SPLIT MASTER SWITCH

This versatile split red master switch has been used in virtually all single engine Cessna models since 1970 and can be used in most light aircraft with single alternator systems. Left rocker normally used for alternator and right half for battery. Order mount separately.

Red Switch ..... P/N 11-15900 ..... ---
Beige Switch ..... P/N 11-05733 ..... ---
Mount ..... P/N 11-15910 ..... ---

CESSNA MASTER SWITCH S1159-1-1

Cessna master switch S1159-1-1 .. P/N 05-27018 ..... ---

TOGGLE SWITCHES

Toggle switches are available with 2 or 3 operating positions, one or three hole mounting and a variety of circuitry and electrical ratings. Contacts are made of solid silver. Wide usage is found in aircraft, mobile, marine, electronic and industrial applications. Available in full "AN" standard size and Ultra Miniature 1/2" size. The leading manufacturers of toggle switches are Micro Switch, Alcoswitch, Cutler Hammer, and JBT (now Cutler Hammer). Orders will be filled with switches of manufacturer whose product is available in local stock.

AN No.	MS No.	Mfgrs. P/N	Size	Contact	Toggle Circuit *	Price
AN3021-1	MS35058-21	JBT - MS No.	1/2 Miniature	SPDT	1*	---
AN3021-2	MS35058-22	JBT - MS No.	1/2 Miniature	SPST	2*	---
AN3021-3	MS35058-23	JBT - MS No.	1/2 Miniature	SPDT	3*	---
AN3027-2	MS35059-22	JBT - MS No.	Full Standard	DPST	2*	---
AN3027-3	MS35059-23	JBT - MS No.	Full Standard	DPDT	3*	---
AN3027-7	MS35059-27	JSBT-MS No.	Full Standard	DPDT	5*	---
AN3027-4	MS35059-24	JBT - MS No.	Full Standard	DPST	7	---

*** See Toggle Circuit Table * Available toggle lever positions & circuits**

TOGGLE CIRCUIT CODE (*)	Circuitry with Toggle at:		
	UP	CENTER	DOWN
1	On	Off	On
2	On	None	Off
3	On	None	On
4	On	Off	On**
5	On*	Off	On**
6	Off	None	On*
7	On	Off	None

PUSH BUTTON SWITCH

Honeywell MS24524-23 Switch Toggle (On/On).

P/N 05-22876 ..... ---

PUSH BUTTON SWITCH

A quality momentary SPST switch, perfect as a starter button, Comes with a special boot that keeps out dust and weather.

P/N SPB01 ..... ---

MINIATURE MOMENTARY PUSHBUTTON SWITCH

Normally open. Found in many Piper aircraft. Color: Black. #8631ZBD2 ..... P/N 11-01899 ..... ---

EL

T7 COMMERCIAL TOGGLE SWITCHES

T7 commercial toggle switch, waterproof bushing seal switches up to 16 amps 15/32-32 thread mount. Includes mounting hardware.

SPECIFICATIONS

Electrical: (at 28VDC or 115VAC, 60/400 Hz.)		
Load	**Amperes**	**Life (Nominal)**
Resistive	16	25,000
Inductive	10	25,000
Motor	1/2 HP	25,000

No. of Poles	OTTO No.	Circuit	Our P/N	Price ea.
1	T7-131A1	on-off	11-00755	---
1	T7-131B1	on-on	11-00756	---
1	T7-131C1	mom-off	11-00757	---
1	T7-131D1	mom-on	11-00758	---
1	T7-131E1	mom-off-mom	11-00759	---
1	T7-131F1	on-off-on	11-00760	---
1	T7-131G1	mom-off-on	11-00761	---
2	T7-231A1	on-off	11-00762	---
2	T7-231B1	on-on	11-00763	---
2	T7-231C1	mom-off	11-00764	---
2	T7-231D1	mom-on	11-00765	---
2	T7-231E1	mom-off-mom	11-00766	---
2	T7-231F1	on-off-on	11-00767	---
2	T7-231G1	mom-off-on	11-00768	---

Note: MOM designates Momentary On.

T3 MINIATURE TOGGLE SWITCHES

Military MS27718 qualified. High reliability, rugged. Solder turret for wire attachment. 303 stainless toggle, 15/32" bushing version has a waterproof seal. Specifications Electrical: (at 28VDC or 115VAC, 60/400 Hz.)

Load	Amps	Life (full load)
Resistive	5	30,000
Inductive/Motor	2	30,000

Load	Amps	Life (full load)
Lamp	1	30,000
Mechanical Life	n/a	100,000

No. of Poles	MIL No.	OTTO No.	Circuit	Our P/N	Price ea.
1	MS27718-21-1	T3-11111	on-off-on	11-00772	---
1	MS27718-22-1	T3-11121	off-on	11-00773	---
1	MS27718-23-1	T3-11131	on-on	11-00774	---
1	MS27718-26-1	T3-11141	mom-on	11-00775	---
1	MS27718-27-1	T3-11151	mom-off-mom	11-00776	---
1	MS27718-31-1	T3-11161	mom-off-on	11-00777	---
2	MS27719-22-1	T3-11221	off-on	11-00779	---
2	MS27719-23-1	T3-11231	on-on	11-00780	---
2	MS27719-27-1	T3-11251	mom-off-mom	11-00782	---
2	MS27719-31-1	T3-11261	mom-off-on	11-00783	---

Note: MOM designates Momentary On.

P5 ON-OFF ALTERNATE ACTION SWITCH

Push and the P5 series switch holds "on" push again and the P5 switch turns "off". Positive tactile feedback is featured so the operator is clearly aware the switch mode has been executed. The button returns to the original position after each actuation.

To guard against front panel splash and dirt, the P5 series is sealed at the button with OTTO's patented rolling sleeve principle.The terminals are sealed with epoxy, providing a seal against flux during wiring and behind panel dirt and moisture. The combination of sealing provides smooth operation over a wide temperature range. Watertight sealing to 1meter (IP68) pressure is also available.

Load	Amps	Life (full load)
Resistive	10	25,000
Inductive	5	25,000

Load	Amps	Life (full load)
Motor	3	25,000
Lamp	1	25,000

Switch	Part No.	Price
Press Fit-red	11-00796	---
Press Fit-black	11-00797	---
Press Fit-white	11-00798	---

Switch	Part No.	Price
Thread Mount Red	11-00769	---
Thread Mount Black	11-00770	---
Thread Mount White	11-00771	---

OTTO PISTOL GRIPS

Otto Controls has been making the switches used in a majority of military and commercial flight grips manufactured for the last 40 years. Otto has evolved from a switch supplier into a major gri supplier with flight grips in numerous military and commercial aircraft. These rugged grips are the same as our military qualified grips but without the expensive threaded connector. Grips have a 1.15"ID which can be adapted to a 3/4" or 7/8" joystick with separate sleeves sold below.

Grip Kit	Otto Part No.	2-position Trigger	4-Way Trim Switch	Push-Button Switch	Our Part No.	Price Each
B8	G2-0048	1	1	3	11-00751	---
Cobra	G2-0049	1	1	4	11-00752	---
T4-0204 4-WAY SWITCH FOR B8 - Four way trim with a large hat style button. Fits into the trim position of the G2-0048 and G2-0049 flight grip kits. Can handle up to a 1 amp inductive load at 28VDC.					11-07956	---

Grip/Joystick Sleeve			
Joystick O.D.	**Part No.**	**Our Part No.**	**Price**
3/4" shaft	302379	11-00753	---

P1 MOMENTARY SWITCHES

MIL qualified. Dustproof, snap action, solder terminals, rugged reliable construction.

SPECIFICATIONS

Electrical: (at 28VDC or 115VAC, 60/400 Hz.)		
Load	**Amperes**	**Life (Nominal)**
Resistive	10	25,000 cycles
Inductive/Motor	5	25,000 cycles
Lamp	3	25,000 cycles

PRESS FIT				
MIL No.	**Otto No.**	**Button Color**	**Our Part No.**	**Price**
MS25089-1AL	P1-12121	Red	11-00745	---
MS25089-1A	P1-12122	Black	11-00746	---
MS25089-1AW	P1-12129	White	11-00747	---

THREADED BEZEL				
MIL No.	**Otto No.**	**Button Color**	**Our Part No.**	**Price**
MS25089-1CR	P1-32121	Red	11-00748	---
MS25089-1C	P1-32122	Black	11-00749	---
MS25089-1CW	P1-32129	White	11-00750	---

T3 1/4-40 UNSEALED BUSHING TOGGLE SWITCHES

These miniature toggles are rugged, highly reliable switches offering positive detent action for safe switching operation. Featuring the unique OTTO snap-action switch mechanism in conjunction with a unique toggle actuator design, the T3 series offers snap-action contact actuation.

No. of Poles	MIL No.	OTTO No.	Circuit	Our Part Number	Price each
1	MS27716-21-1	T3-21111	On-Off-On	11-00784	---
1	MS27716-22-1	T3-21121	Off-None-On	11-00785	---
1	MS27716-23-1	T3-21131	On-None-On	11-00786	---
1	MS27716-26-1	T3-21141	On-None-(On)	11-00787	---
1	MS27716-27-1	T3-21151	(On)-Off-(On)	11-00788	---
1	MS27716-31-1	T3-21161	On-Off-(On)	11-00789	---
2	MS27717-21-1	T3-21211	On-Off-On	11-00790	---
2	MS27717-22-1	T3-21221	Off-None-On	11-00791	---
2	MS27717-23-1	T3-21231	On-None-On	11-00792	---
2	MS27717-26-1	T3-21241	(On)-None-On	11-00793	---
2	MS27717-27-1	T3-21251	(On)-Off-(On)	11-00794	---
2	MS27717-31-1	T3-21261	On-Off-(On)	11-00795	---

Note: ( ) denotes Momentary action.

EL

• SILVER SWITCH CONTACTS (MOST)

SWITCHES & INDICATOR LIGHTS

• .25" TAB TERMINAL (UNLESS SHOWN)

Commercial 12 VDC Illuminated & Non-Illuminated Toggle, Rocker, Push-Button, Pull Switches...
Incandecent & L.E.D. Indicator Lights...Switch Guards...Lever Covers

LEVER SWITCHES
20 AMP SILVER CONTACTS

Non-Illuminated	Single Pole	Price
On-Off	11-103	---
On-On	11-107	---
On-Off-On	11-123	---

DASH LIGHTS

17-420

17-410

Replaceable Lamp					
Red	Green	Amber	Blue	MTG. HOLE	Price
17-410	17-411	17-412	17-413	1/2"	---
Jumbo					
17-420	17-421	17-432	17-423	3/4"nut	---
17-440	17-441	17-442	17-443	1"nut	---

LEGEND LIGHTS

Illuminated words.
Dimensions: 7/8" x 11/16" x 1-3/8"
Mounting Hole: .629" Diameter (16 mm)

Color	Part No.	Price
Red	11-06000	---
Green	11-06060	---
Blue	11-06065	---

Color	Part No.	Price
Orange	11-06050	---
Clear	11-06070	---

REPLACEMENT BULBS

12 Volt .....P/N 31-963.1 ..... ---
24 Volt .....P/N 31-963.2 ..... ---
NOTE: Order labeling (words) separately from list below.

LEGEND LIGHT LABELS

Description	Part No.	Price
Alarm	17-538	---
Auto-Pilot	17-710	---
AUX Lights	17-501	---
AUX Rank	17-606	---
Battery	17-536	---
Carb Heat	17-712	---
Caution	17-714	---
Danger	17-540	---
De-ice	17-713	---
Flaps Up	17-730	---
Flashing Lights	17-560	---
Fuel Pumps	17-587	---
Gear Down	17-718	---

Description	Part No.	Price
Hi Oil Pressure	17-625	---
Hi Oil Temp	17-518	---
Interior Lights	17-679	---
Lock	17-711	---
Loran	17-716	---
Low Fuel	17-512	---
Mags	17-715	---
Aux Brake Light	17-507	---
Oil Filter	17-609	---
Pitot Heat	17-709	---
Radio	17-717	---
Strobe Lights	17-631	---
Wing Lights	17-614	---

MS25041 PRESS-TO-TEST INDICATOR

Miniature press-to-test indicator with built-in bulb testing device. Adjustable dimmer. Uses #330 (12V) or #327 (24V) bulb. Bulbs NOT included, order separately.
Clear .....P/N 11-04226 ..... ---
Red .....P/N 11-03910 ..... ---
Green .....P/N 11-03911 ..... ---
Amber .....P/N 11-03912 ..... ---
Blue.....P/N 11-04227 ..... ---

ROCKER SWITCHES
SILVER CONTACTS

Non-Illuminated	Single Pole	Price	Double Pole	Price
On-Off	14-100	---	14-200	---
Off-(On)	14-101	---	---	---
On-On	14-102	---	14-210	---
On-Off-On	---	---	14-220	---
(On)-Off-(On)	14-104	---	14-225	---

Illuminated Single Pole (20 AMP, OnOff-OFF)				
Red	Green	Amber	Blue	Price
14-305	14-306	14-307	14-308	---

PUSH BUTTON

Off-(On), 5 AMP
Mounting Hole: 1/2"
Aluminum Guard.....P/N 15-112 ..... ---

Push On-Push Off, 16 AMP
Mounting Hole: 1"
Red Button.....P/N 15-132 ..... ---

Off-(On), 40 AMP, Sealed
Mounting Hole: 5/8"
Screw Terminal.....P/N 15-100 ..... ---

PULL SWITCHES

Pull On/Push Off, 75 AMP
Chromed.....P/N 16-140 ..... --- **ea.**

METAL LEVER TOGGLE SWITCHES

25" TAB TERMINAL. 21 AMP at 12VDC 9 AMP at 24VDC
15 AMP at 125VAC 1/2" panel hole size.

Operation	Single Pole	Price	Double Pole	Price
Off-On	*12-100	---	12-200	---
Off-(On)	*12-101	---	12-201	---
On-On	*12-102	---	12-202	---
On-Off-On	12-103	---	12-203	- - -
(On)-Off-(On)	12-104	---	12-204	---
( )=Momentary				

SWITCH LEVER COVERS

Fits most metal switches with 15/32" bushing
Black Neoprene - Hex Nut
P/N 19-516 ..... ---

BUSS BARS

These MS25226 series buss bars are used as replacement bars for MS27212 board assemblies.

Part No.	Hole Size	# of Holes	Length	Our Part No.	Price
MS25226-10-4	3/16	4	2 5/8"	11-04676	---

PLAIN WIRE SPOOLS

Chipboard tube & top wire spools, complete with metal spool plugs that have pre-stamped drive holes and locking anchors for a long lasting use.
These wire spools can be easily assembled in a moments time; insert the spool plug through the ID of a flange and pressed into a spiral wound paper tube. The end caps have locking anchors that hold the spools simply & securely unassembled.

Description	Part No.	Price
7X2X3X3/4 5 Pack	11-11507-5	---
7X2X3X3/4 10 Pack	11-11507-10	---
7X6X3X3/4 5 Pack	11-11508-5	---
7X6X3X3/4 10 Pack	11-11508-10	---

EL

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SKYLOX® CIRCUIT BREAKER LOCKS

Skylox® is a unique product that will provide safety to your aircraft ground service crews. The circuit breaker safety lock is easy to use and is an innovative safety solution, all at a very low price. Simple to use. Just squeeze and place over an open circuit breaker to prevent accidental closing of breaker circuits being serviced. Regular round Skylox® for standard size breakers and Skylox® L for larger sizes. Hexagonal shape easily differentiates between the two sizes. Add Skytags® for added safety. Red with white letters and all white backs for adding notes or special instructions. Use whiteboard markers for reusability, or permanent markers for repeating conditions. NOTICE! Skylox® are designed for use by ground maintenance crews during ground maintenance procedures only! Skylox® are NOT to be used during flight operations.

Size	Color	Part No.	Price	Color	Part No.	Price
Large	Orange	11-14282	---	Yellow	11-07734	---
Standard	Orange	11-07736	---	Yellow	11-10572	---

ISOLOX® FOR CIRCUIT BREAKERS

The patented isolox® is a larger version of the popular Skylox® product that has been specifically designed to accommodate large breakers and those with color coding collars attached. isolox® will complete your toolbox of Circuit Breaker Lockout tools fitting the widest variety of breakers currently in use. isolox® are also compatible with Skyclip® and Skytags® and can be packaged in configurations of the Skykit® tool accountability kit.

Orange.....P/N 11-13569 ..... ---

SKYTAGS®

Skytags® are durable plastic tags for use with Skylox® and isolox™ do designate Danger, Warning or simply Maintenance. The yellow Maintenance tag is double sided while the Danger and Warning tags feature a glossy white back suited for grease pencil, dry erase markers or permanent markers for instructions, technician's name or other desired information. Size: 3-1/2" length x 1" width

Warning .....P/N 11-07738 ..... ---
Danger.....P/N 11-07737 ..... ---
Maintenance .....P/N 11-13571 ..... ---

SKYLOX® SKYCLIP®

Skyclip® is a stainless steel spring clip for attaching Skytags® to isolox™ and Skylox®.

P/N 11-13572 ..... ---

SKYLOX® SKYKIT® 1

Kit Includes • 10 Standard Skylox • 2 Large Skylox • 2 Skyvault Sleeves • 12 Warning Or Danger Tags And Clips In A Sturdy Poly Case. NOT to be used in flight.

P/N 11-13573 ..... ---

SKYLOX® SKYKIT® 2

Kit Includes • 18 Standard Skylox • 18 Warning Or Danger Tags • 18 Skyclips In A Sturdy Poly Case. NOT to be used in flight.

P/N 11-13574 ..... ---

SKYLOX® SKYKIT® CASES WITH FOAM ONLY

Have Skylox® but don't have a case to store then in, then try this Skykit®Poly Case - a sturdy poly case with foam. Available for 12pc kit or 18 pc kit. Secure your loose Skylox today. Skylox are not included.

12 pc. Case .....P/N 11-13575 ..... ---
18 pc. Case .....P/N 11-13576 ..... ---

CIRCUIT BREAKER LOCKOUT RING

With Tag. Prevents the inadvertent closing of circuit breakers connected to equipment that is under repair or removed from the aircraft. Easily installed and removed from Klixon and similar type circuit breakers. All locks are red, tags are red with white lettering.

Tags measure 2"x3/4". .....P/N 11-04464 ..... ---

THIN WALL HEAT-SHRINKABLE TUBING

This is a general purpose heat shrinkable tubing with a wide scope of applications including harnessing, wire bundling, strain reliefs or any application where components or cables must be insulated or packaged. Material is an irradiated, thermally stabilized, modified polyolefin which is vastly superior to thermoplastic type materials. Flexible & flame retardant. Shrinkable by any hot air source such as an electric hair dryer or any heating device delivering at least 250°F. One person can complete installation in seconds. No need for special skills. Meets spec. MIL-I-23053B. Standard length - 4 ft. Min. purchase 4 ft. per size. Sold only in full 4 ft. lengths. *P/N 11-00900 is sold per foot.

Black

Expanded Size	Expanded I.D.	Recovered I.D.	Nominal Wall	Part No.	Price / 4 ft. Piece
1/16"	.063	.031	.017	11-00700	---
3/32"	.093	.046	.020	11-00800	---
1/8"	.125	.062	.020	11-00900*	---
3/16"	.187	.093	.020	11-01000	---
3/16	.188	.094	.019	11-16893	---
1/4"	.250	.125	.025	11-01100	---
3/8"	.375	.187	.025	11-01200	---
1/2"	.500	.250	.025	11-01300	---
3/4"	.750	.375	.030	11-01400	---
1"	1.000	.500	.035	11-01500	---
White					
1/16	.063	.031	.017	11-09443	---
1/8"	.125	.062	.020	11-04029	---
1/4"	.250	.125	025	11-04028	---
3/8"	.375	.187	.028	11-04030	---
1/2"	.500	.250	.025	11-04027	---

Discount: 25% Discount on 12 or more 4' Lengths (Per Size)

Always order the largest size which will fit snugly over the component being covered. Wall thickness will be less if recovery is restricted during shrinking.

ADHESIVE LINED HEAT-SHRINKABLE TUBING

Adhesive Lined Shrink Tubing is made of flame retardant, cross-linked, black, polyolefin with an inner coating of hot-melt adhesive and an outer layer. It has excellent physical, chemical, and electrical properties and provides electrical and mechanical protection.

Features: • Shrink Ratio: 3:1 • Operating Temperature: -55° C to +110° C • Shrink temperature: 120° C • Inner layer glue melting temperature: 70° C -90° C • Waterproof • Meets: Mil-23053/4 Class 3, UL224 • UL Recognized • RoHS Complian3:1 ADHESIVE LINED.

Tube Size (In.)	Expanded I.D.	Recovered I.D.	Part No.	Price Per 4ft. Piece
1/8	.118"	.039"	11-11536	---
3/16	0187"	.059"	11-11537	---
1/4	.236"	.078"	11-11538	---
3/8	.254"	.118"	11-11539	---
1/2	.472"	.157"	11-11540	---
3/4	.708"	.236"	11-11541	---
1	.945"	.315"	11-11542	---

IGNITION SHIELDING BRAID

Tinned copper tubular braid. Very flexible multi-strand braid. Excellent way to shield spark plug wires to reduce radio frequency interference (RFI). Fits over standard spark plug wire. Use 1/2" heat shrink to secure the ends.

Shielding Braid per foot .....P/N 11-02463 ..... ---
Heat Shrink Tubing, 1/2", 4 ft. length .....P/N 11-01300 ..... ---

TINNED COPPER BRAID

Used for static shielding on short lengths of wire or cable and for flexible bonding connections and ground straps. Made of extra flexible tinned copper wire. Rolled flat for spooling.

P/N	Nominal Flat Width	Current *Capacity Amps.	Wt./100 Ft. Lbs.	Price Per Ft.	Price 100 Ft.
858	1/8"	16	0.7	---	---
863	1/4"	32	1.5	---	---
864	3/8"	46	2.5	---	---
868	1/2"	53	3.3	---	---

EXPANDABLE ICO-FLEX™ XPF SLEEVING

ICO-FLEX™ XPF is flame retardant & light weight, self-fitting, monofilament sleevings designed to encapsulate and protect cable bundles and wire assemblies. These expandable sleevings adjust to irregular surfaces and contours, providing abrasion resistance and protection with a minimum of bulk and weight. Black.

Nominal ID In/mm	Bundle Size Range Minimum - Maximum In/mm	Part No.	Price/ Ft.
.125 / 3.18	.094 - 0.125 / 2.38 - 3.18	11-12352	---
.250 / 6.35	.125-.0375 / 3.18-9.53	11-04275	---
.375 / 9.53	.250 - 0.625 / 6.35 - 15.88	11-03899	---
.500 / 12.70	.250-0.750 / 6.35-19.05	11-04274	---
.750 / 19.05	.500-1.250 / 12.70-31.75	11-12353	---
1.250 / 31.75	.750-1.500 / 19.05-38.10	11-12354	---
1.750 / 44.45	1.25-2.500 / 31.75-63.50	11-12356	---
2.000 / 50.80	1.500-3.000 / 38.10-76.20	11-12357	---

EL

UNSHIELDED WIRE MIL-W-22759

Standard tin-plated copper conductor and is insulated with extruded Tefzel (ethylene/tetrafluorbethylene) which has a maximum temperature rating of 150°C. This wire is rated for 600 volts.

Part No.	Mil-Spec	Wire Gauge	Color	Price per ft.	Price (100ft)
11-14524	M22759/16-24-9	24	White	---	---
11-06254	M22759/16-24-0	24	Black	---	---
11-07790	M22759/16-24-6	24	Blue	---	---
11-07795	M22759/16-24-5	24	Green	---	---
11-06253	M22759/16-24-2	24	Red	---	---
11-06252	M22759/16-24-4	24	Yellow	---	---
11-14522	M22759/16-22-9	22	White	---	---
11-06257	M22759/16-22-0	22	Black	---	---
11-07791	M22759/16-22-6	22	Blue	---	---
11-07796	M22759/16-22-5	22	Green	---	---
11-06256	M22759/16-22-2	22	Red	---	---
11-06255	M22759/16-22-4	22	Yellow	---	---
11-11982	M22759/16-22-90	22	White w/ Black Stripe	---	---
11-11985	M22759/16-22-96	22	White w/ Blue Stripe	---	---
11-11981	M22759/16-22-95	22	White w/ Green Stripe	---	---
11-11983	M22759/16-22-92	22	White w/ Red Stripe	---	---
11-11984	M22759/16-22-94	22	White w/ Yellow Stripe	---	---
11-14520	M22759/16-20-9	20	White	---	---
11-06260	M22759/16-20-0	20	Black	---	---
11-07792	M22759/16-20-6	20	Blue	---	---
11-07797	M22759/16-20-5	20	Green	---	---
11-06259	M22759/16-20-2	20	Red	---	---
11-06258	M22759/16-20-4	20	Yellow	---	---
11-14518	M22759/16-18-9	18	White	---	---
11-01596	M22759/16-18-0	18	Black	---	---
11-01599	M22759/16-18-6	18	Blue	---	---
11-07798	M22759/16-18-5	18	Green	---	---
11-01597	M22759/16-18-2	18	Red	---	---
11-06261	M22759/16-18-4	18	Yellow	---	---
11-15601	M22759/16-18-90	18	White w/ Black Stripe	---	---
11-15607	M22759/16-18-92	18	White w/ Red Stripe	---	---
11-14516	M22759/16-16-9	16	White	---	---
11-01601	M22759/16-16-0	16	Black	---	---
11-01604	M22759/16-16-6	16	Blue	---	---
11-07799	M22759/16-16-5	16	Green	---	---
11-01602	M22759/16-16-2	16	Red	---	---
11-01603	M22759/16-16-4	16	Yellow	---	---
11-15501	M22759/16-16-90	16	White w/ Black Stripe	---	---
11-19522	M22759/16-16-95	16	White w/ Green Stripe	---	---
11-15507	M22759/16-16-92	16	White w/ Red Stripe	---	---
11-14514	M22759/16-14-9	14	White	---	---
11-07788	M22759/16-14-0	14	Black	---	---
11-07793	M22759/16-14-6	14	Blue	---	---
11-07801	M22759/16-14-5	14	Green	---	---
11-07806	M22759/16-14-2	14	Red	---	---
11-07804	M22759/16-14-4	14	Yellow	---	---
11-14512	M22759/16-12-9	12	White	---	---
11-07789	M22759/16-12-0	12	Black	---	---
11-07802	M22759/16-12-5	12	Green	---	---
11-07807	M22759/16-12-2	12	Red	---	---
11-07805	M22759/16-12-4	12	Yellow	---	---
11-14510	M22759/16-10-9	10	White	---	---
11-14508	M22759/16-8-9	8	White	---	---
11-14506	M22759/16-6-9	6	White	---	---
11-14504	M22759/16-4-9	4	White	---	---
11-14502	M22759/16-2-9	2	White	---	---
11-14501	M22759/16-01-9	0	White	---	---
11-14500	M22759/16-02-9	00	White	---	---

SHIELDED WIRE MIL-C-27500

This shielded and jacketed aircraft wire conforms to MIL-C-27500 and replaces MIL-C-7078/3. It incorporates MIL-W-22759/18 basic wire and features a Tefzel insulation, a shield of tin-plated copper braid and a jacket of Tefzel. It is temperature rated to 150°C & voltage rated at 600V. Top quality wire to military specifications.

Part No.	Mil-Spec	Wire Gauge	Number of Conductors	Price per ft.	Price (100ft)
11-04476	M27500-24TG1T14	24	1	---	---
11-04477	M27500-24TG2T14	24	2	---	---
11-04478	M27500-24TG3T14	24	3	---	---
11-14422	M27500-22TG1T14	22	1	---	---
11-05650	M27500-22TG2T14	22	2	---	---
11-05651	M27500-22TG3T14	22	3	---	---
11-07773	M27500-22TG4T14	22	4	---	---
11-06580	M27500-22TG5T14	22	5	---	---
11-07774	M27500-22TG6T14	22	6	---	---
11-09782	M27500-22TG8T14	22	8	---	---
11-12535	M27500-22TG9T14	22	9	---	---
11-14420	M27500-20TG1T14	20	1	---	---
11-14585	M27500-20TG3T14	20	3	---	---
11-18168	M27500-20TG2T14	20	2	---	–
11-04474	M27500-18TG2T14	18	2	---	---
11-04475	M27500-18TG3T14	18	3	---	---
11-14418	M27500-18TG1T14	18	1	---	---
11-04473	M27500-16TG2T14	16	2	---	---
11-14416	M27500-16TG1T14	16	1	---	---
11-14414	M27500-14TG1T14	14	1	---	---
11-14412	M27500-12TG1T14	12	1	---	---
11-14410	M27500-10TG1T14	10	1	---	---
11-14408	M27500-8TE1T14	8	1	---	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ARINC 646 CAT 5 DATA BUS CABLE

Applications: ARINC 646, Cat 5, LAN, 10 Base T

P/N 11-18304 ..... ---

MALE SUB-D CRIMP PIN

20/24G Crimp Pin. Pins/Sockets.

P/N 11-00139 ..... ---

FEMALE SUB-D CRIMP SOCKET

Subminiature D Pins/Sockets for MIL-C-24308 and MIL-C-39029 .....P/N 11-11877 ..... ---

SINGLE CONDUCTOR INCH SOLDERING SLEEVES WITH PIGTAIL

Perfect for single conductor shielded cable and great for terminating “P Leads”.

1/8” .....P/N 11-12363 ..... ---

1/4” .....P/N 11-14743 ..... ---

TE SOLDERSLEEVE WITH LEAD

SolderSleeve shield grounding terminators provide an environmentally sealed, insulated, and encapsulated solder connection for a variety of applications.

Specifications: • Jacket Outside Diameter: 4.3 mm [.169 in] • Expanded Inside Diameter (Min): 4.3 mm [.17in] • Recovered Inside Diameter (Max): 2 mm [.079in] • Shield Outside Diameter (Min): 2 mm [.079 in] • Overall Length: 29.3 mm [1.15 in] • Pre-Installed Lead Wire Size (mm²): .38 .....P/N 11-16370 ..... ---

BATTERY CABLE

6-gauge multi-strand copper core cable. Meets SAE Spec J1127-SGT. Price is per foot.

Black .....P/N 11-03942 ..... ---

Red.....P/N 11-03943 ..... ---

Lug (6 Gauge).....P/N 11-05110 ..... ---

4 CONDUCTOR UNSHIELDED WIRE 18 AWG

The cable can be cut to length, jacket removed and conductors stripped to custom specifications. Awg Size: 18 Thickness: .016" Nominal O.D: .032" Suitable for EIA RS-232 applications. .P/N 11-08280 ..... **--- /ft.**

SOLDERING SLEEVES

One-step, heat-shrinkable wire and cable interconnection device. Create strong, soldered connections. Consist of a heat-shrinkable sleeve and a premeasured, fluxed solder band. When heated, the tubing shrinks and the solder melts, making reliable, insulated terminations.

.125” SM.....P/N 11-04480 ..... ---

.200” MD .....P/N 11-04481 ..... ---

.300” LG .....P/N 11-04482 ..... ---

SOLDERING SLEEVES

Termination sleeves consist of a heat-shrinkable, transparent, polyvinylidene fluoride sleeve with an inner, pre-fluxed, solder preform and two thermoplastic sealing inserts. When heat is applied, the solder melts and flows to provide a superior connection between the ground lead and the shield.

.125.....P/N 11-07902 ..... ---

1/4" .....P/N 11-07903 ..... ---

.300.....P/N 11-07905 ..... ---

MU-METAL MAGNETIC SHIELDING

Provides shielding when placed around electronic equipment proir to instalation. 4”x4 mil. Sold by the inch.....P/N 11-04483 ..... **---/inch**

MOMENTARY PUSH-BUTTON SWITCHES

Switch, Micromini, Pushbutton, SPST, Off-Moment, PC Terminal

SPDT, Momentary, Black

11-04468 11-04471 P/N 11-04471 ..... ---

STA-KON ELECTRICAL TERMINALS

Color-coded MS25036 nylon ring w/self-insulated grip.

Wire Range: 22-16			
Mfg. No.	**Part #**	**Bolt Hole**	**Price**
RA18-4	11-03864	4	---
RA18-6	11-03865	6	---
RA18-8	11-03866	8	---
RA18-10	11-03862	10	---
RA18-14	11-03863	1/4	---
Wire Range: 18-14			
RB14-4	11-04093	4	---
RB14-6	11-03869	6	---
RB14-8	11-03870	8	---

Wire Range: 18-14 Cont.			
Mfg. No.	**Part #**	**Bolt Hole**	**Price**
RB14-10	11-03867	10	---
RB14-14	11-03868	1/4	---
Wire Range: 12-10			
RC10-6	11-03874	6	---
RC10-8	11-03875	8	---
RC10-10	11-03871	10	---
RC10-14	11-03872	1/4	---
RC10-38	11-03873	3/8	---

HEAT-SHRINK BUTT SPLICES

Heat-Shrinkable crimp butt splices completely insulate and protect electrical connections from water, condensation, salt and corrosion. Provides strain relief and protects against wire pull-out and vibration in the most rugged environments. Qualified to MIL-S-81824/1.

Decription	AWG	Part No.	Price
Raychem Butt Splice Blue Tin-Plated (Pk of 10)	20-16	11-04427-10	---
Raychem Butt Splice Blue Nickel-Plated (Pk of 10)	20-16	11-04428-10	---
Raychem Butt Splice Blue Tin-Plated (Pk of 25)	20-16	11-04427-25	---
Raychem Butt Splice Blue Nickel-Plated (Pk of 25)	20-16	11-04428-25	---
Raychem Butt Splice Red Tin-Plated (Pk of 10)	26-20	11-04425-10	---
Raychem Butt Splice Red Nickel-Plated (Pk of 10)	26-20	11-04426-10	---
Raychem Butt Splice Red Tin-Plated (Pk of 25)	26-20	11-04425-25	---
Raychem Butt Splice Red Nickel-Plated (Pk of 25)	26-20	11-04426-25	---
Raychem Butt Splice Yellow Tin-Plated (Pk of 10)	16-12	11-04429-10	---
Raychem Butt Splice Yellow Nickel-Plated (Pk of 10)	16-12	11-04430-10	---
Raychem Butt Splice Yellow Tin-Plated (Pk of 25)	16-12	11-04429-25	---
Raychem Butt Splice Yellow Nickel-Plated (Pk of 25)	16-12	11-04430-25	---

COLOR CODED CIRCUIT BREAKER CAPS

These color coded caps can easily be installed and removed from Klixon and similar type circuit breakers. Colored caps are used to “flag” designated circuit breakers for flight check and other purposes. In addition, they greatly improve grip. Won’t shake loose and rattle like others can.

White .....P/N 11-04455 ..... ---
Red.....P/N 11-04457 ..... ---
Yellow.....P/N 11-04459 ..... ---
Gray.....P/N 11-04461 ..... ---
Orange.... P/N 11-04456 ..... ---
Blue..... P/N 11-04458 ..... ---
Black ..... P/N 11-04460 ..... ---
Green..... P/N 11-04462 ..... ---

CIRCUIT BREAKER LOCKS

Circuit Breaker Safety Locks - With & Without Tags. Prevents the inadvertent closing of circuit breakers connected to equipment that is under repair or removed from the aircraft. Easily installed and removed from Klixon and similar type circuit breakers. Safety locks come both with and without tags. All locks are red, tags are red with white lettering. Tags measure 2”x3/4”.

Description	Tag	Ring Color / Tag Color	Part No.	Price
Circuit Breaker Lockout Ring S4933959-501	--	Red / --	11-04463	---
Circuit Breaker Lockout Ring S4933959-503	--	Yellow / --	11-14695	---
Circuit Breaker Lockout Ring S4933959-505	--	Blue / --	11-14696	---
Circuit Breaker Lockout Ring S4933959-507	--	Black / --	11-14697	---
Circuit Breaker Lockout S4933959-521	Remove Before Flight	Red / Red	11-04464	---
Circuit Breaker Lockout S4933959-523	Remove Before Flight	Yellow / Red	11-14698	---
Circuit Breaker Lockout S4933959-525	Remove Before Flight	Blue / Red	11-14699	---
Circuit Breaker Lockout S4933959-527	Remove Before Flight	Black / Red	11-14700	---
Circuit Breaker Lockout S4933959-531	Inoperative Do Not Operate	Red / Red	11-04465	---
Circuit Breaker Lockout S4933959-533	Inoperative Do Not Operate	Yellow / Red	11-14701	---
Circuit Breaker Lockout S4933959-535	Inoperative Do Not Operate	Blue / Red	11-14702	---
Circuit Breaker Lockout S4933959-537	Inoperative Do Not Operate	Black / Red	11-14703	---

EL

COAXIAL CABLE

RG 400 - Standard cable for radio installations. Double shielded stranded conductor, MIL-DTL-17 spec. Approved for certified aircraft . P/N 11-09202 ..... ---

RG 142 - Double shielded solid conductor, MIL-C-17 spec. Approved for certified aircraft. .....P/N 11-00043 ..... ---

RG 58A/U - Standard cable for experimental avionics installations. Single shielded stranded conductor, jacket type – PVC. For experimental aircraft only. P/N 11-03920 ..... ---

RG 58C/U - Standard cable for experimental avionics installations. Single shielded stranded conductor, jacket type – Non-PVC. For experimental aircraft only. .....P/N 11-04258 ..... ---

RF CONNECTOR STRAIGHT CRIMP PLUG FOR RG-142 RG-400 50 OHM

RF Connector M39012/26-0503 TNC Straight Crimp Plug for RG-142 RG-400 50 OHM .....P/N 11-19339 .....

BNC COAXIAL ANTENNA CONNECTORS

Male .....P/N 11-03992 ..... ---
Female .....P/N 11-03993 ..... ---

SMA COAX CONNECTOR

SMA straight PCB Jack, through hole, 50 Ohm, reverse polarized. For use with Coax Cable RG400 .....P/N 11-14064 ..... ---

TNC FEMALE CRIMP RG142

TNC Female Crimp RG142 .....P/N 11-08641 ..... ---

BNC CONNECTOR RIGHT ANGLE BNC MALE TO FEMALE

Male to Female .....P/N 11-04454 ..... ---

BNC FEMALE TO C MALE ADAPTER - PE9087

Has a female to male gender configuration. BNC female to type C male adapter operates to 4 GHz. The RF adapter provides good VSWR of 1.3:1 maximum .....P/N 11-18318 ..... ---

MALE BNC TO SMA FEMALE ADAPTER

Configuration: Straight Connector 1: BNC Male. Connector 2: SMA Female .....P/N 11-10463 ..... ---

BNC FEMALE BULKHEAD DUAL CRIMP RG58

P/N 11-04445 ..... ---

BNC STRAIGHT ADAPTERS - PLUG/PLUG 50 OHMS

RF/Coaxial Adapter. Dimensions: a 1.25"; b .562". Connector Type: Intra-Series Coaxial. Convert From: BNC Plug. Convert To: BNC Plug .....P/N 11-08416 ..... ---

BNC STRAIGHT ADAPTERS - JACK/JACK 50 OHM

RF/Coaxial Adapter. Connector Type: Intra-Series Coaxial. Convert From: BNC Jack. Convert To: BNC Jack.....P/N 11-08417 ..... ---

TNC CONNECTOR AMP MALE, DUAL CRIMPS

Dual Crimp RG58.....P/N 11-04446 ..... ---
Dual Crimp RG142-400 .....P/N 11-04447 ..... ---

TNC CONNECTOR RIGHT ANGLE SOLDER/ SCREW RG58

P/N 11-04452 ..... ---

TE MATE-N-LOK MALE PIN

PIN/Male, 250V, MATE-N-LOK series. Brass material. For use with 24-18 gauge wire. ROHS compliant.
P/N 11-16605 ..... ---

TE MATE-N-LOK 3 PIN CONNECTOR

PIN/Male, 3 pin series .....P/N 11-16607 ..... ---

RF BNC MALE RIGHT ANGLE CRIMP PLUG

RF Connectors / Coaxial Connectors - BNC Right Angle Crimp Plug RG 400 - 142 for RG-55, RG-142, and RG-223 has a 50 Ohms
P/N 11-17167 ..... ---

RF FEMALE TNC STRAIGHT CRIMP JACK

Amphenol RF Female TNC - 122373 - Straight Crimp Jack for RG-55, RG-223, 50 Omhu .....P/N 11-17224 ..... ---

RF TNC STRAIGHT CRIMP JACK

Amphenol RF TNC Straight Crimp Jack - 122122 for RG-58 LMR-195 - 50 Ohms .....P/N 11-17225.....

D-SUB HIGH DENSITY 15 PIN 3 ROW CONNECTOR

P/N 11-16005 ..... ---

BNC RIGHT ANGLE CRIMP PLUG FOR RG 58

RF Connector - BNC Right Angle Crimp Plug for RG-58 LMR-195 50 Ohms .....P/N 11-17888 ..... ---

TE MATE-N-LOK 3 CIRCUIT POSITION POWER CONNECTOR

3 Circuit Mate-N-Lok Plug .....P/N 11-18450 ..... ---

CPC CONNECTOR KITS

P/N 11-14011

The Sealed CPC using UL F1-rated resin is ideal for UV resistance in outdoor applications. The UL F1 rating meets industry standards for long-term UV exposure, making the housings suitable for outside applications where parts are subject to frequent or extended periods of exposure to sun light. The CPC is sealed to IP67 with no additional enclosure needed to protect the mated connector from water exposure, making it easier to install and lowering the cost of installation. The circular configuration requires less space than a rectangular-style connector with an equal number of contacts for an efficient use of space on your equipment.

Receptacle and plug housings accept Type III+ signal contacts and/or AMP POWERBAND (size 8) contacts. The housings come in three series designed to handle standard signal, power with current up to 50A per contact and combinations of signal and power in the same housing. All housing variations include sealing to IP67. Mounting options include panel mount and free-hanging.

Description	Part No.	Price
8 Pin CPC Free Hang Male Base	11-14010	---
8 Pin CPC Free Hang Female Base	11-14011	---
8 Pin CPC Bulk Head Male Base	11-13999	---
8 Pin CPC Bulk Head Female Base	11-14001	---
9 Pin CPC Free Hang Male Base	11-14005	---
9 Pin CPC Bulk Head Male Base	11-14003	---
28 Pin CPC Free Hang Male Base	11-14006	---
28 Pin CPC Free Hang Female Base	11-14007	---
28 Pin CPC Bulk Head Male Base	11-14008	---
28 Pin CPC Bulk Head Female Base	11-14009	---

SPT FIREWALL CABLE GROMMET MOUNTS

Superior Panel Technology's Firewall Penetration Kit (Cable Grommet Mount) allows you to make a rectangular opening large enough to pass a plug measuring 1.25" x 2.9" (which will accept the largest sized plug used for installing the Garmin G3X - GEA24 engine sensors LRU plugs). The opening is then sealed with the 1/8" thick, center-stepped, stainless-steel cover plates.

Description	ID	OD	Panel Hole	Part No.	Price
Grommet Id Size 3/16"	3/16"	7/16"	5/16"	11-13459	---
Grommet Id Size 5/16"	5/16"	13/16"	9/16"	11-13460	---
Grommet Id Size 3/8"	3/8"	7/8"	5/8"	11-13461	---

PROTECT-FAST BRAIDED EXPANDABLE WRAP

Protect-Fast™ AERO Braided PFA-PFW Sleeving is an efficient 'slip-over' solution allowing for easy installation of wires or bundles of cables' entire run. Flame spread is a vital safety consideration in applications such as home built aircraft wiring and or retrofitting new avionics. Self-extinguishing Protect-Fast PFA-PFW material is FAR25 approved, fully complies with UL standard VW-1. The addition of an organic flame inhibitor to our triaxially braided PFW split sleeving provides the perfect solution to a wide range of cable management needs. Protect-Fast is a tough, lightweight method used to contain and protect cable assemblies, hoses and wire harnesses from abrasion and cutting. Solvent resistant with a temperature rating from -75°C to 125°C (-103°F to 257°F). Provides 150% Expansion Sleeve with 25% Overlap Wrap.

Nominal (Inch)	Feet (per Roll)	Part No	Price	Feet (per Roll)	Part No	Price
1/8	100	05-12884	---	400	05-12892	---
1/4	100	05-12885	---	200	05-12893	---
1/2	75	05-12886	---	150	05-12894	---
3/4	50	05-12887	---	100	05-12895	---
1	50	05-12888	---	100	05-12896	---
1-1/4	75	05-12889	---	75	05-15257	---
1-1/2	25	05-12890	---	75	05-12898	---
2	25	05-12891	---	50	05-12899	---

PROTECT-FAST INSTALLATION TOOLS

Sleve	Part No.	Price
1/4"	05-12900	---
1/2"	05-12901	---
3/4"	05-12902	---

Sleve	Part No.	Price
1"	05-12903	---
1-1/2"	05-12904	---

VISHAY DALE RESISTOR - METAL FILM

Vishay Dale Resistor 15 OHMS Metal Film.
Note: For Garmin G5 Certified Aircraft.
15 OHMS .....P/N 11-17265 ..... ---
120 OHMS .....P/N 11-17470 ..... ---

EL

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

KOROSEAL LACING

Excellent lacing material. Permanently flexible. Resists oxidation, impervious to petroleum products. Holds tension on knots indefinitely. Perfect for holding wire bundles, tubing, etc. Rectangular cross-section 3/32"x 5/32"

P/N 11-12200 ..... **---/Ft.**

KSL-1 KOROSEAL LACING

Koroseal Lacing used as a tie-off for hose & aeroduct tubing. Perfect for a nose strut seal kit and many other applications, FAA/PMA, 3/32" x 5/32" x 100' roll.

P/N 04-03465 ..... ---

BREYDEN POLYESTER LACING TAPES

Flat braided tape manufactured from 100% high tenacity, continuous filament polyester fiber. This product conforms to the requirements of A-A-52081-C-3 MIL-T-43435B; Type II, Size 3, Finish C. The tape is uniformly impregnated with a synthetic elastomer coating to improve knot holding and tying characteristics. Ideal for spot tying. 500 yd. rolls. Width: .085" (±10%); Thickness: .014" (±.003"); Tensile Strength: 50 Lb. (min.); Elongation: 40% (max.)

Natural ..... P/N 11-02012 ..... ---
Black ..... P/N 11-02013 ..... ---

BREYDEN NYLON LACING TAPES

Flat braided tape manufactured from 100% high tenacity, continuous filament nylon yarn. This tape is impregnated with a specially formulated microcrystalline, fungicidal wax. Conforms to the requirements of A-A-52080-B-3. Recommended for continuous lacing. 500 yd. rolls. Width: .077" (min.) / .094" (max.); Thickness: .011" (min.) / .017" (max.); Tensile Strength: 50 Lb. (min.); Wax Content: 15-32%; Elongation: 40% (max.)

Natural ..... P/N 11-12170 ..... ---
Black ..... P/N 11-12160 ..... ---

MS25181 NYLON SPLICES

Butt-type, self insulated.

Part No.	Wire Range	Price
320559	22-18	---
320562	16-14	---
320570	12-10	---

AMP® BATTERY TERMINALS

Terminals may be crimped or soldered.

Part No.	AWG Size	Amps	Stud Size	Price
33461	8	35	1/4"	---
33466	6	50	5/16"	---
33470	4	70	5/16"	---
321600	2	90	3/8"	---
321868	1/0	125	3/8"	---

TE BUTT SPLICE YELLOW 323994 PIDG 26-22 AWG

The 323994 is PIDG series Fork/Spade Tongue Terminal designed for uniform reliability in the most difficult circuit environments. They consist of a tin-plated copper or tin-plated phosphor bronze body for spring spades, plus a copper and coloured insulation sleeve fitted over a terminal barrel.

Features: • Splice • Not Sealed • 1 & 2 Class • Splice Type = Butt • Butt Splice Type = Standard ..... P/N 11-20073 ..... ---

COPPER EYELET BATTERY LUG

6 GA Copper Eyelets 1/4" Stud.

P/N 11-05110 ..... ---

RING & SPADE TONGUE TERMINAL

Specifications: Wire Range (mm [AWG]): 0.30-1.40² [22-16], Wire/Cable Size (CMA): 509 – 3,260 Tongue Material Thickness (mm [in]): 0.84 [0.033], Voltage (VAC): 300

Ring Tongue Term 320572 5/16 ..... P/N 11-09313 ..... ---
Ring Tongue Term 320573 3/8 ..... P/N 11-09314 ..... ---
Ring Tongue Term 328975 1/2" ..... P/N 11-09315 ..... ---

MS25171 ELECTRICAL TERMINAL NIPPLES

Right angle nipples made of silicone rubber (MIL-R-5847, Class II, Grade 50).

Part No.	Dimension								Dash No.	Price Each
	A	B	C	D	E	F	G	H		
11-03913	1.38	.56	.06	.40	.63	.16	.41	.76	-1S Red	---
11-04837	1.38	.56	.06	.40	.63	.16	.41	.76	-1S Black	---
11-14260	1.38	.56	.06	.40	.63	.16	.41	.76	-1S White	---
11-14261	2.50	1.00	.06	.56	.82	.31	.56	.95	-2S Red	---
11-03914	2.50	1.00	.06	.56	.82	.31	.56	.95	-2S White	---
11-08287	2.50	1.00	.06	.56	.82	.31	.56	.95	-2S Black	---
11-14262	2.50	1.00	.06	.56	.82	.43	.68	.95	-3S Red	---
11-14263	2.50	1.00	.06	.56	.82	.43	.68	.95	-3S Black	---
11-03915	2.50	1.00	.06	.56	.82	.43	.68	.95	-3S White	---
11-14265	2.50	1.00	.06	.56	.82	.56	.82	.95	-4S Red	---
11-14266	2.50	1.00	.06	.56	.82	.56	.82	.95	-4S Black	---
11-03916	2.50	1.00	.06	.56	.82	.56	.82	.95	-4S White	---

AMP® SOLDERLESS TERMINALS & SPLICES

AMP's solderless electrical terminals and splices meet and exceed today's requirements for reliable terminals in applications ranging from control circuits to heavy duty power wiring. A limited number of sizes and types of terminals and tools are featured in this catalog. Information and pricing on unlisted items furnished on request.

RING TONGUE, NON-INSULATED TERMINALS

The barrel and tongue of these terminals are fabricated of the finest electrolytic copper and electro-tinned for optimum performance. The seam is brazed for uniform metal strength around the entire barrel area.

Part No.	AWG Size	Stud Size	Price
34104	22-16	4	---
34105	22-16	6	---
34108	22-16	8	---
34109	22-16	10	---
34113	22-16	1/4	---
321684	16-14	6	---
34122	16-14	8	---

Part No.	AWG Size	Stud Size	Price
34123	16-14	10	---
34124	16-14	1/4	---
32994	12-10	8	---
33457	12-10	10	---
33469	4	1/4	---
35772	12-10	1/4	---
35135	12-10	1/2	---

RING TONGUE, NYLON INSULATED TERMINALS

Each insulated PIDG terminal consists of a tin plated copper body, a tin plated copper wire support sleeve and a color-coded insulation sleeve.

Part No.	AWG Size	Stud Size	Price
31880	22-16 Red	4	---
31885	22-16	6	---
31890	22-16	8	---
36154	22-16	10	---
31894	22-16	1/4	---
32442	16-14 Blue	6	---
31902	16-14	8	---

Part No.	AWG Size	Stud Size	Price
31903	16-14	10	---
31906	16-14	1/4	---
35149	12-10 Yellow	6	---
35108	12-10	8	---
35109	12-10	10	---
35110	12-10	1/4	---
35112	12-10	3/8	---

KNIFE DISCONNECTS

Nylon InsulatedTwo Required Per Assembly.

32446 ..... 22-16 ..... Red ..... --- ea.
32448 ..... 16-14 ..... Blue ..... --- ea.
35762 ..... 12-10 ..... Yellow ..... --- ea.

BUTT TYPE SPLICES

PLASTI-GRIP

34070 ..... 22-16 ..... Red ..... --- ea.
34071 ..... 16-14 ..... Blue ..... --- ea.
34072 ..... 12-10 ..... Yellow ..... --- ea.
2RB14 ..... 16-14 ..... Blue ..... --- ea.

AMP TERMINAL KITS

Terminal & Splice Kit ..... P/N 11-50000 ..... ---
Above w/15 Drawer Cabinet ..... P/N 11-50005 ..... ---
Above w/Cabinet and 604252-1 tool ..... P/N 11-50010 ..... ---

FOR KIT COMPONENTS VISIT WWW.AIRCRAFTSPRUCE.COM OR CALL OUR SALES TEAM AT: 1-877-4-SPRUCE

PIDG FASTON RECEPTACLES BY AMP

* Style A

** Style B

***Style A:** No dimple w/wire stop.
****Style B:** Dimple w/wire stop. Less 20% on 100 pcs. (per P/N)

Part #	Style	Tab Width	AWG	Tab Thk.	Price
640903-1	B	0.250"	22-18	.032	---
640905-1	B		16-14	.032	---
42844-1	B		14-12	.032	---
640909-1	B	0.205"	22-18	.020	---
640911-1	B		22-18	.032	---
640913-1	B		16-14	.020	---
640915-1	B		16-14	.032	---
640917-1	B	0.187"	22-18	.020	---
640919-1	B		16-14	.020	---
61048-1	B	.110"	22-18	.016	---
61060-1	B		22-18	.020	---
60894-1	B		22-18	.032	---
640923-1	A		22-18	.020	---
640925-1	A		22-18	.032	---
640929-1	A		16-14	.020	---

WIRE PIDG CAPS

16-14G closed barrel end splice.

Color	Part No.	Price
Blue	11-11842	---
Yellow	11-11843	---
Red	11-11841	---

LIQUID ELECTRICAL TAPE

Protects connections with applicator brush protects electrical connections and terminals against corrosion. 4oz. Bottle

P/N 09-42565 ..... ---

EL

SEAL-ALL CONNECTORS

Seal-All Connectors are an environmentally sealed connection system developed to withstand exposure to extreme temperatures, moisture and harsh engine compartment fluids and chemicals with unfaltering performance. It consists of mating heat stabilized polyamide housings, male and female "pin and socket" terminals and self-lubricating silicone connector and cable seals. Seal-All connector configurations are available for one to six wires. -40 C to 125 C temperature range. Now you can have the same superior Plug/Connector that is used in vehicle OEM manufacturing.

Below are sold as the shell only. Terminal connector kits are not included. Order seperately.

SEAL-ALL CONNECTORS
(MALE AND FEMALE SHELLS ONLY)

SINGLE CONDUCTOR KIT
MANF P/N - WHT1C
P/N 11-06581 ..... ---

DOUBLE CONDUCTOR KIT
MANF P/N - WHT2C
P/N 11-06582 ..... ---

TRIPLE CONDUCTOR KIT
MANF P/N - WHT3C
P/N 11-06583 ..... ---

4 CONDUCTOR KIT
MANF P/N - WHT4C
P/N 11-06584 ..... ---

4 CONDUCTOR KIT
MANF P/N WHT4CSQ
P/N 11-06585 ..... ---

5 CONDUCTOR KIT
MANF P/N - WHT5C
P/N 11-06586 ..... ---

6 CONDUCTOR KIT
MANF P/N - WHT6C
P/N 11-06587 ..... ---

VINYL TUBING

Clear PVC tubing for cable protection. Commonly called "spaghetti". Meets Spec. MIL-I-63ID.

AWG Size	I.D.	Wire Wall	Size	Part No.	Price/Ft.	100 Ft.
9	.118	.020	20-22	11-02200	---	---
7	.148	.020	16-18	11-02300	---	---
5	.186	.020	12-14	11-02400	---	---
2	.263	.020	8-10	11-02500	---	---
5/16	.312	.025	6	11-02600	---	---
3/8	.375	.025	4	11-02700	---	---

PREMIUM VINYL TUBING

This premium vinyl tubing is recommended for use in extremely cold temperatures where tubing can be prone to becoming stiff and brittle. Manufactured to Spec. MIL-I-7444B, this tubing can be coiled and bent easily and will retain some flexibility even in extreme temperatures. Sold in 50 ft. and 100 ft. coils in the sizes listed below.

AWG Size	Wire Size	I.D. (In.)	Wall (In.)	50 Ft. Coil		100 Ft. Coil	
				Part No.	Price	Part No.	Price
9	20-22	.118	.020	11-16195	---	11-16190	---
7	16-18	.148	.020	11-16175	---	11-16170	---
5	12-14	.186	.020	11-16155	---	11-16150	---
2	8-10	.263	.020	11-16125	---	11-16120	---
5/16	6	.312	.025	11-16165	---	11-16160	---

METALIZED PLASTIC D-SUB HOUSINGS

Straight / Top entry. 4-40 Thumbscrews supplied with backshell. Perimeter sealing lips for secure sealing. Available in metalized plastic and plastic. Metalized plastic provides up to 60 dB shielding.

Description	Part No.	Price
9 Pin	11-13014	---
15 Pin	11-13015	---

Description	Part No.	Price
25 Pin	11-13016	---
37 Pin	11-13017	---

TERMINAL CONNECTOR KITS FOR SEAL-ALL CONNECTORS

Terminal Kits (includes 6 each-male, female terminals and 12 seals). Will work with all Seal-All Shells. Note-the male terminal pin goes into the female shell.

24-22 Ga Wire MANF P/N - WHT2422.....P/N 11-06588 ..... ---
20-18 Ga Wire MANF P/N - WHT2018.....P/N 11-06589 ..... ---
16-14 Ga Wire MANF P/N - WHT1614.....P/N 11-06590 ..... ---

SEAL-ALL HEAVY DUTY CONNECTOR

Heavy Duty Connector-42 amps continuous maximum current rating. For 12-10 gauge wire. Complete 2 conductor kit

P/N 11-06591 ..... ---

SEAL-ALL HEAVY-DUTY CRIMP TOOL

Non-ratchet tool designed to crimp the terminals and seal for the Seal-All Heavy-duty connector (P/N: 11-06591).

P/N 11-17552 ..... ---

SEAL-ALL CRIMP TOOL

Crimp tool works with all Seal-All terminals and seals. Its compact, low-cost parallel jaw design eliminates terminal rocking. Seal-All Crimp Tool

P/N 11-06592 ..... ---

PROFESSIONAL SEAL-ALL CRIMPER

Crimps Seal-All terminals and seals in one cycle. Features two double Cavities, an orientation block and a ratchet mechanism to ensure that each crimp cycle is completed. Factory calibrated to be used only with Seal-All terminals and seals. Wire range 20-14.

Pro Seal-All Crimper

P/N 11-06593 ..... ---

SEAL-ALL TERMINAL RELEASE TOOL

A must have tool for working with Seal-All shells and terminals. Designed to depress Seal-All rentention barbs to allow terminal removal from shells. Seal-All Tool .....P/N 11-06594.....

AVIONICS CONNECTORS

Descriptions	Part No.	Price
9 Pin Female D Connector / Crimp	11-12149	---
9 Pin Silver Female Sub-D Crimp Connector	10-05731	---
15 Pin Silver Female Sub-D Connector Crimp Style	11-13296	---
25 Pin Silver Female Sub-D Connector Crimp Style	11-13297	---
37 Pin Silver Female Sub-D Connector Crimp Style	11-13298	---
9 Pin Male D Connector / Crimp	11-12150	---
37 Pin Female D Connector / Crimp	11-12151	---
37 Pin Male D Connector / Crimp	11-12152	---
25 Pin Female D Connector / Crimp	11-12153	---
9 Pin D Connector Cable Clamp	11-12154	---
37 Pin D Connector Clamp Cable	11-12155	---
15 Pin Male Crimp Sub-d Connector	11-11892	---
25 Pin Male Crimp Sub-d Connector	11-11893	---
25 Pin D Connector Cable Clamp	11-11894	---
SMA Male Crimp RG58	11-12173	---
Dual SMA Male Crimp RG142-400	11-12172	---
15 Pin Female Crimp Style-d Connect	11-11878	---
15 Pin Sub-d Cable Clamp Housing	11-11879	---
34 Pin Grounding Block	11-01297	---
Female Sub-d Pin 20-24 Gauge Crimp Socket	11-11877	---
Female Screw Lock For Sub-d Connector	11-11896	---
Molex 19417 Connector AWG Crip Contact Female	10-05932	---
Molex 19417 Connector AWG Crip Contact Male	10-06266	---
Male High Density Sub-D Pin 24 to 22 Gauge Crimp Pin - Garmin	11-12111	---
34 Pin Receptacle	10-05895	---

CRIMP SOCKETS FOR GROUNDING BLOCKS

Crimp Sockets. For use with grounding blocks and CPC Series 1 Connectors.

Model	Description	Part No.	Price
66105-1	24-20 AWG, Gold/Nickel finish	10-05891	---
66105-4	24-20 AWG, Selenium/Gold/Nickel finish	10-05892	---
66101-1	18-16 AWG, Gold/Nickel finish	10-05893	---
66101-4	18-16 AWG, Selenium/Gold/Nickel finish	10-05894	---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CRIMPING TOOLS

LITTLE BLUE CRIMPER

The Daniels AFM8 is designed for most of the miniature and sub-miniature connector types that are so widely used in all types of electronic systems. Originally developed for the Air Force, the AFM8 meets the need for a miniature tool accommodating wire sizes 20 thru 32 AWG. The cycle controlled precision ratchet assures consistently accurate crimps every time. The tool has a built-in eight step selector knob for ease in dialing the correct crimp depth setting for the wire being used .....P/N 11-04443 ..... ---
K13-1 Low Density Pin Positioner for Little Blue Crimper.. P/N 11-12211 ..... ---
K42 High Density Pin Positioner for Little Blue Crimper.. P/N 11-12212 ..... ---
DMC Crimp Tool Turret Head Assembly ..... P/N 11-12197 ..... ---
DMC Crimp Tool Universal Head Assembly ..... P/N 11-12198 ..... ---

BIG BLUE CRIMPER

The Daniels AF8 has virtually limitless application within the specified wire range of 12 thru 26 AWG. Over 1,000 turret heads or positioners are available to adapt the tool frame to your specific military or proprietary contact/wire combination. The eight impression crimp, which is standard in the AF8, assures absolute maximum tensile strength with almost every closed barrel contact. The precision ratchet controls cycling on the tool in both directions of handle movement. This assures the same, accurate crimp every time. It's like having a quality control inspector at every work station .....P/N 11-04442 ..... ---

HAND INSERTION TOOL

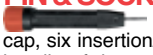
This inexpensive, manual tool is lightweight and easy to use in the placement and/or removal of a terminal in a housing.....P/N 11-04439 ..... ---

MATE-N-LOK INSERTION PIN & SOCKET TOOL

Insertion tool for grounding blocks and locking connectors. The AMP insertion tool for MATE-N-LOK pins. Contact sizes 20-24 AWG .....P/N 11-04437 ..... ---

MATE-N-LOK EXTRACTION PIN & SOCKET TOOL

Insertion tool for grounding blocks and locking connectors. The AMP insertion tool for MATE-N-LOK pins. Contact sizes 20-24 AWG .....P/N 11-04438 ..... ---



PIN & SOCKET TOOL W/INTERCHANGEABLE TIPS

This insertion & extraction tool consists of a handle, a cap, six insertion/extraction tips, a plug, and a .050-in. hex wrench. The handle of the tool provides storage for the tips, plug and hex wrench. Each tip is color coded according to specific type and wire size.
P/N 11-04436 ..... ---

AMPHENOL RF TNC CONNECTORS

Amphenol RF TNC Threaded Connector Series are miniature, threaded weatherproof units with a constant 50Ω impedance that operate from 0-11GHz. There are two types of TNC connectors: Standard and Reverse Polarity. Reverse polarity is a keying system accomplished with a reverse interface, and ensures that reverse polarity interface connectors do not mate with standard interface connectors.Many TNC connectors are recognized under the component program of Underwriter's Laboratories and have undergone stringent testing from an independent laboratory.
TNC 400 Right Angle Male .....P/N 11-15368 ..... ---
TNC 400 Straight Plug .....P/N 11-15369 ..... ---
TNC 12108 Straight Plug .....P/N 11-15370 ..... ---
TNC 122430 Right Angle Male .....P/N 11-15371 ..... ---

QUICK DISCONNECT FEMALE PANEL MOUNT COUPLING

1 / 4 Hose Barb Valved Panel Mount Coupling Body.
P/N 11-04068 ..... ---

QUICK DISCONNECT FEMALE - IN LINE

1 / 4 Hose Barb Non - Valved In - Line Coupling Body
P/N 11-04066 ..... ---

QUICK DISCONNECT INSERT

For 1/4" ID tubing. Used with 11-04066 Quick Disconnect In-line or 05-01984 Quick Disconnect Panel Mount.

QUICK DISCONNECT MALE IN LINE W SHUT OFF

P/N 11-04069 ..... ---

MS27488-22-2 SEALING PLUG

MS27488-22-2 - Connector Accessory, Sealing Plug, Circular Connectors. The MS27488-22-2 is a black grommet End Sealing Plug made of fluorinated ethylene propylene (FEP). The connector grommet end sealing plug from Aiconics can be used with the connectors and the terminal junction systems having wire sealing grommets conforming to MIL-DTL-26500, MIL-DTL-28804, MIL-C-29600, MIL-DTL-38999, MIL-C-81511 series 3 & 4, SAE-AS81659. The high quality connector sealing plug can be installed in connector grommet cavity sizes 23-22 .....P/N 11-16603 ..... ---

TE MALE JACKSCREW KIT 203618-1

Male Jackscrew Kit, Unassembled, Short for Ground Connector, M Series .....P/N 10-07121 ..... ---

HAND CRIMP TOOL CENTER CRIMP TERMINAL 18-30 AWG

Hand Crimp Tool for 3.96mm Centers Crimp Terminals, intended for use when tooling.
P/N 10-05929 ..... ---

HAND CRIMP TOOL - LOOSE PIECE TERMINALS 14-22 AWG

Hand Crimp Tool for 2.mm Loose Crimp Terminals, intended for use when tooling. .....P/N 10-05928 ..... ---

CRIMPER FOR BATTERY LUGS 8-1 GA

Tool For Crimpable Battery Lugs. Light duty crimping tool. Crimps battery lugs from 8-1 ga.
P/N 12-03718 ..... ---

CRIMPER HAMMER TOOL FOR 8GA 4/0 BATTERY LUGS

Economically priced. Used with a hammer for a quick crimp in maintenance and repair situations. Handles terminals from 8-4/0 ga. .....P/N 12-03719 ..... ---

BENCH MOUNT TOOL HEX CRIMP BATTERY LUGS 8 GA TO 250 MCM

Bench mountable verison of stock #460. Crimps 8-4/0 ga lugs. .....P/N 12-03721 ..... ---

CRIMPER FOR COPPER BATTERY EYELET LUGS 8-4/0 GA

Crimps eyelet style copper lug terminals 8-4/0 ga. Includes 3 separate dies. .....P/N 12-03722 ..... ---

QUICK DISCONNECT FEMALE BULK

For 1/4" ID tubing. Used with 05-01984 Quick Disconnect Panel Mount or 11-04066 Quick Disconnect In-line .....P/N 05-01984 ..... ---

PIN INSERTION & EXTRACTION TOOL

The insertion of contacts during assembly or replacement during repair is quick and easy with the appropriate tools. The tools have to fit the contacts and the connectors if assembly and repair are to be carried out correctly. This tool is also absolutely necessary to use for extracting a proken pin for replacement or moving a misplaced pin for relocation. Insert and extract all your connector pins & sockets with this premium tool. It will work with both standard and high-density pins. **For Garmin high density pins, please use part 22-28 AWG, part # 11-04435.**
16 AWG Blue/White .....P/N 11-04431 ..... ---
20 AWG Red/White .....P/N 11-04432 ..... ---
24-20AWG Red/White .....P/N 11-04433 ..... ---
20 AWG Green/White.....P/N 10-06933 ..... ---
22 AWG Green/White.....P/N 11-04434 ..... ---
22-28AWG Green/White .....P/N 11-04435 ..... ---

EXTRACTION HAND TOOL

Use With Part(s): Loose Piece Terminals.
P/N 11-14948 ..... ---

M81969/14-11 INSERTION AND EXTRACTION TOOL

The M81969/14-11 insertion/extraction tool can be used to insert and extract contacts for the following connector series: • MIL-DTL-26482 Series II • AS81703 Series III • MIL-DTL-83733 • MIL-DTL-83723 Series II & III • AS50151 • AS81714 .....P/N 11-16736 ..... ---

REMOVAL TWEEZERS #20

Removal tweezer designed for size 20 contacts installed in ITT-Cannon "D*C and D*U" Series, rear release D-subminiature connectors. Contact numbers: 030-1952-000, 030-1953-000, 030-1954-000, 030-1955-000.
Removal Tweezer #20 .....P/N 11-14936 ..... ---
Removal Tweezer #20 Long Probe .....P/N 11-14937 ..... ---

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CABLE TIES – SPIRAL WRAP

AMP® SPIRAP SPIRAL PLASTIC TUBING

Spiral plastic tubing is a fast and economical way to bundle wires and harnesses. It is designed to protect wire insulation for the life of the circuit even under severe vibration. Spirap tubing obtains its gripping ability from the memory of the plastic. When 1/4" diameter Spirap is wrapped around a 3/4" diameter wire bundle, the Spirap tubing tries to return to is original 1/4" diameter size, effectively gripping the wire bundle. Flame retardant polyethylene. Bundle diameter range: 3/16" to 2". Discount: 20% less on orders of 100 feet.

White .....P/N 500004-1 ..... **---/ft.**
Black.....P/N 11-08320 ..... **---/ft.**

SPIRAL WRAP WIRE PROTECTORS

PE=Polyethylene
NY=Nylon

Permits flexible routing of cable harness while forming a neat, protective bundle. It twists on easily and quickly and allows lead-outs at any point. When installed, it may be gapped for greater economy and flexibility or it may be butted tightly for maximum abrasion resistance, insulation protection and greater rigidity. Nylon type-for use in wider temperature ranges with high resistance to abrasion and good solvent resistance.

Part No.	Size	Material	Color	Temp Rate	Price/ft
11-12316	3/16"	PE-FR	Natural	-4°F to +176°F	---
11-12314	1/4"	PE-FR	Natural	-4°F to +176°F	---
11-12338	3/8"	PE-FR	Natural	-4°F to +176°F	---
11-17147	1/2"	PE-FR	Natural	-4°F to +176°F	---
11-12334	3/4"	PE-FR	Natural	-4°F to +176°F	---
11-17146	1"	PE-FR	Natural	-4°F to +176°F	---
11-16881	1/8"	PTFE	Natural	-449°F to +500°F	---
11-16880	1/4"	PTFE	Natural	-449°F to +500°F	---
11-16883	3/8"	PTFE	Natural	-449°F to +500°F	---
11-16882	1/2"	PTFE	Natural	-449°F to +500°F	---
11-17144	3/4"	PTFE	Natural	-449°F to +500°F	---
11-17145	1"	PTFE	Natural	-449°F to +500°F	---
11-17150	1/8"	PA6	Natural	-40°F to +250°F	---
11-17149	1/4"	PA6	Natural	-40°F to +250°F	---
11-17151	3/8"	PA6	Natural	-40°F to +250°F	---
11-12312	1/2"	PA6	Natural	-40°F to +250°F	---
11-17148	3/4"	PA6	Natural	-40°F to +250°F	---
11-12311	1"	PA6	Natural	-40°F to +250°F	---
11-17153	1/8"	PA6	Black	-40°F to +250°F	---
11-17155	1/4"	PA6	Black	-40°F to +250°F	---
11-17156	3/8"	PA6	Black	-40°F to +250°F	---
11-17154	1/2"	PA6	Black	-40°F to +250°F	---
11-17158	3/4"	PA6	Black	-40°F to +250°F	---
11-17157	1"	PA6	Black	-40°F to +250°F	---
11-17159	1/8"	PE-FR	Black	-4°F to +176°F	---
11-17160	3/8"	PE-FR	Black	-4°F to +176°F	---
11-17161	1/2"	PE-FR	Black	-4°F to +176°F	---
11-17162	3/4"	PE-FR	Black	-4°F to +176°F	---
11-17163	1"	PE-FR	Black	-4°F to +176°F	---

GRIPLOCKTIES® RUBBER-LINED, RELEASABLE TIES

GripLockTies® rubber-lined, releasable ties offer superior grip, vibration dampening, and non-slip performance. Unlike traditional zip ties, they won't damage wires or surfaces and can be adjusted or reused multiple times. Ideal for automotive, aerospace, and industrial applications, GripLockTies provide a stronger, smarter, and more secure hold.

Color	Length	Part No.	Price
Orange	5 inch	11-20729	---
Orange	8 Inch	11-20732	---
Orange	12 Inch	11-20734	---
Blue	5 inch	11-20731	---
Blue	8 Inch	11-20733	---
Blue	12 Inch	11-20736	---

CABLE TIES

This all nylon cable tie is designed to hold cables securely. Bundling strength military requirements. Installs in just seconds.

Cat. #	L"	Tensile Strength	Max Dia.	Part No.	Price
MS3367-4-9	4"	18 lbs	0.63"	11-04230	---
MS3367-5-9	5"	30 lbs	1.13"	11-04039	---
MS3367-1-9	7"	50 lbs	1.75"	11-04229	---
--	8"	18 lbs	2"	11-12866	---
MS3367-7-9	11"	50 lbs	3"	11-12865	---
MS3367-2-9	14"	50 lbs	4"	11-04058	---
MS3367-3-9	14"	120 lbs	4"	11-13475	---

35% discount on 500 per part no. 40% Discount on 1000 per part no.

CABLE TIE ASSORTMENT PACK

Includes: MS3367-5-9 Cable Ties 5"(15), Cable Ties MS3367-4-9(15), Cable Ties MS3367-1-9(20), Cable TiesMS3367-29(5).... P/N 11-03768 ..... ---

TYTON HORIZONTAL IDENTIFICATION CABLE TIES

Length: 8"; Strength: 50 lbs.... P/N 11-12360 ..... ---

TYTON VERTICAL IDENTIFICATION CABLE TIES

Length: 4"; Strength: 18 lbs .. P/N 11-12365 ..... ---

TYTON MOUNTING CABLE TIES

Length: 4"; Strength: 18 lbs .. P/N 11-12350 ..... ---
Length: 8"; Strength: 50 lbs .. P/N 11-12355 ..... ---

TY-RAP™ CABLE TIES WITH SS LOCK

Stainless steel locking device in the head secures tie with longer-lasting, corrosion-resistant "grip of steel". Oval, low profile head prevents snagging while pulling through bulkheads. No sharp edges to be the source of installation injuries or to damage the wire insulation. 1000 per pack.

Mfg. No.	Length	Max Dia.	Tensile Strength	Part No.	Price 100 Pack	Price 1000 Pack
TY23M	4"	0.63"	18 lb	04-02628	---	---
TY24M	5.5"	1.13"	30 lb	04-02630	---	---
TY25M	7"	0.63"	50 lb	04-02631	---	---
TY26M	11"	1.13"	40 lb	04-02633	---	---
TY28M	14"	3"	50 lb	04-02632	---	---

READY-ZIP-PACK™ CABLE TIE ORGANIZER WITH BELT

Ready-Zip-Pack is a portable solution for carrying zip ties in a handy ready to use fashion. Whether climbing a ladder, walking a line or in a tight space. No more fumbling in your apron pockets or worse holding them in your mouth, our assorted length zip ties will be conveniently ready right on your hip. Along with the customized holster for the Ty-D-Up flush cutter and the all-weather 50-inch long canvas belt makes all your jobs go faster, cleaner and easier. Grommetted corner holes will also allow the user to secure or carry the RZP as an over the shoulder carrier or can be positively affixed to a surface of your choosing.
In The Box: • 1 - Wearable zip tie organizer pack with belt • 1 - 50 Black each of 4″, 6″, 8″, 11″, 14″ ties • 1 - Flush cutter ....P/N 11-17396 ..... ---

READY-ZIP-GO™ CABLE TIE ORGANIZER WITH MAGNETIC BASE

Ready-Zip- Go Zip Tie Holder for all your projects and hobbies No more fumbling or sorting through bags, drawers or tubes for the right zip tie. The convenient system makes your workplace orderly and uncluttered. The magnetic tie holder is equipped with 250 or 500 black zip ties and a flus h cutter.
In The Box: Depending on quantity size:
• For 500 Pack - 100 Black Zip Ties each of 4″, 6″, 8″, 11″ 14″ (P/N 11-17394) • For 250 Pack - 50- Black Zip Ties each of 4″, 6″, 8″, 11″ 14″ (P/N 11-17395) • 1-Flush Cutter
250 Pack.....P/N 11-17395 ..... ---
500 Pack.....P/N 11-17394 ..... ---

NYLON BULKHEAD SEALS

Nylon Bulkhead seals are used when electrical harnesses or tubing is passed through bulkheads in pressurized and non- pressurized aircraft.

Bulkhead Seal, Square, 1-1/8" Hole.....P/N 11-04059 ..... ---
Bulkhead Seal, Elliptical, 3/4" Hole .....P/N 11-04061 ..... ---
Bulkhead Seal, Elliptical, 1/2" Hole .....P/N 11-04060 ..... ---
Bulkhead Seal, Square, 1-3/8" Hole.....P/N 11-04062 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CABLE TIES – HEAT SHRINK TUBING

COBRA® CABLE TIES

With a contoured locking head, the Cobra configuration is safer, more flexible and stronger than existing cable ties. Safer because the (often barbed) stub is now deflected into a pocket at the rear of the head. More flexible because the flat lock section curves to the bundle contour and stronger because the Cobra uses an inline geometry, eliminating the stress points of traditional cable ties. Bundles down to 3/8" diameter and meets new AS 3361 specs. Features pick-proof underside lock & all rounded edges.

Color	Qty.	Tensil	Length/Width	Part No.	Price
UV Black	100	50 Lbs.	7.5" x .178"	11-01883	---
UV Black	1000	50 Lbs.	7.5" x .178"	11-01884	---
Natural	100	50 Lbs.	7.5" x .178"	11-01885	---
Natural	1000	50 Lbs.	7.5" x .178"	11-01886	---
UV Black	100	50 Lbs.	11"	11-08033	---
UV Black	100	50 Lbs.	14"	11-08034	---
Black	-	120 Lbs.	14" x .178"	11-02416	---
Natural	-	120 Lbs.	14" x .178"	11-02417	---
Black	-	18 Lbs.	4" x .178"	11-02464	---
Natural	-	18 Lbs.	4" x .178"	11-02466	---
Natural	-	18 Lbs.	4" x .178"	11-02467	---

COBRA® CABLE TIE KITS

STANDARD - Kit includes: 100 low profile blk Cobra® ties , the rugged Cinch&Trim application gun and an instruction manual. Gun applies traditional as well as low profile ties. 7.5" Ties

Black.....P/N 11-06319..... --- Natural ..... P/N 11-06320..... ---

COBRA® FLEXROUTE TIES

A universal, durable, and simple cable management solution that secures and protects both the frame and cable. Utilizes the lowest profile nylon cable tie on the market.

Standard.....P/N 11-16303 ..... ---
X-Large.....P/N 11-16304 ..... ---

COBRA® RUBBER MOUNTS

Part No.	Size	Color	Qty.	Price
11-02470	3/4"	Black	100	---
11-02472	3/4"	Natural	100	---
11-02474	1"	Black	100	---
11-02476	1"	Natural	100	---

COBRA® ACRYLIC MOUNTS

Part No.	Size	Color	Qty.	Price
11-02478	3/4"	Black	100ct	---
11-02479	3/4"	Natural	100ct	---
11-02482	1"	Black	100ct	---
11-02484	1"	Natural	100ct	---

STANDARD CINCH AND TRIM GUN

C-200 Wraps ties from 18 to 50 lbs with auto tension setting & a rugged die cast aluminum body. Applies traditional ties as well as low profile ties.

P/N 11-02468 ..... ---

TYTON ADHESIVE CABLE TIE MOUNTS

Hellermann Tyton Adhesive Cable Tie Mounting Bases are used with T18 through T150 Series cable ties to provide stability when securing bundles. The mounts are installed using the adhesive backing and/or by securing two or four screws. The 4-way opening allows the cable ties to be inserted parallel or perpendicular to the wire bundles. Rubber-based adhesive allows for a permanent bond to most surfaces.

Features:

- Durable adhesive achieves high pull-off force and is unaffected by vibration.
- The 4-way opening allows cable ties to be installed parallel or perpendicular to bundles.
- Predrilled holes extend mounting options and security.
- Extended adhesive liner is easy to remove quickly.

Description	Dimensions	Max Tie Width	Hole Dia.	Part Number	Price
Adhesive Cable Tie Mount	.75" x .75"	.14"	.12"	11-16678	---
Adhesive Cable Tie Mount	.75" x .75"	.14"	.12"	11-16680	---
Adhesive Cable Tie Mount	1.12" x 1.12"	.18"	.18"	11-16681	---
Adhesive Cable Tie Mount	1.49" x 1.49"	.35"	.19"	11-16683	---

TYTON CABLE TIE ANCHOR MOUNTS

Hellermann Tyton cable tie mounts are designed for use with 18 through 120 pound cable ties to provide stability when securing bundles. The mounts are installed quick and easy by securing a single screw.

Features:

- Designed for use with 18 through 50 pound cable ties to provide stability when securing bundles.
- Secures with a single screw providing quick installation.

Description	Dimensions	Hole Dia.	Max Tie Width	Part Number	Price
Cable Tie Anchor Mount	.58" x .37"	.15"	.2"	11-16684	---
Cable Tie Anchor Mount	.58" x .37"	.19"	.2"	11-16685	---
Cable Tie Anchor Mount	.86" x .61"	.18"	.31"	11-16686	---
Cable Tie Anchor Mount	.86" x .61"	.2"	.31"	11-16687	---
Cable Tie Anchor Mount	.86" x .62"	.25"	.31"	11-16688	---

TYTON HEAT SHRINK TUBING

TFN21 is a highly flexible thin wall heat shrink tubing with a 2 to 1 shrink ratio and excellent flame retardant properties. In addition to providing insulation and abrasion protection for wires and cables, the polyolefin material also offers resistance to oils, solvents and chemicals.

Features:

- Thin, 2 to 1 shrink ratio tubing provides insulation and abrasion protection for wires and cables.
- Flammability rating of UL224 VW-1 for use in applications requiring the highest degree of flame protection (excludes clear tubing).
- Flexible-yet-durable material resists most common oils, chemicals and fluids.
- Available in a variety of diameters and colors for identifying and marking wires and cables.

Description	Diameter	Color	Part Number	Price Per Foot
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	1/16"	Black	11-16689	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	1/2"	White	11-16690	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	1/4"	White	11-16691	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	1/8"	White	11-16692	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	3/8"	White	11-16693	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	1/16"	White	11-16694	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	3/32"	Black	11-16695	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	1/8"	Black	11-16696	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	1/4"	Black	11-16697	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	3/8"	Black	11-16698	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	1/2"	Black	11-16699	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	3/4"	Black	11-16700	---
Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio	1"	Black	11-16701	---

BOGERT CABLES – LABEL PRINTER

BOGERT'S LOW LOSS COPPER CABLE KITS

Benefits:
- Starting performance improved, both hot & cold
- Eliminates nearly all voltage drop between battery & starter
- Starter current draw reduced
- Faster cranking, crank longer on the same battery
- Prolonged battery and starter life
- Less stress on battery & starter system
- Helps assure confidence in passengers
- Reduces the personal frustration and irritation factor
- Exceeds Piper Service Bulletins SB836 and SB836a

Contents:
- STC & AML Copy
- Sample log book entry
- Sample 337 sample entries
- Formula for figuring weight & balance, & C.G. Change
- Easy to follow instructions
- Schematic listing part numbers for all cables in the kit
- Flexible 1 gauge M22759, cut to length & assembled
- Cut to the correct length
- Assembled with 'slim-head' style terminals
- Insulated with shrink tubing

Aircraft	Application	Part No.	Our Price
PA-12		11-00247	---
PA-16		11-00248	---
PA-18	Super Cub	11-15102	---
PA-20	Pacer	11-15104	---
PA-22	Tripacer/Colt	11-15106	---
PA-23-150/160	Apache	11-15108	---
PA-23-250	Aztec (4&6 place)	11-15110	---
PA-24-180/250	Comanche (Battery AFT)	11-15112	---
PA-24-400	Comanche	11-15118	---
PA-25-235/260	Pawnee	11-15120	---
PA-25-235/260	Pawnee (SN25-7556153 & up)	11-15122	---
PA-28-140	Cherokee	11-15124	---
PA-28-150/160	Cherokee	11-15126	---
PA-28-151	Warrier	11-15128	---
PA-28-161	Warrier II	11-15130	---
PA-28-180	Cherokee	11-15132	---
PA-28R-180	Arrow	11-15134	---
PA-28-181	Archer II	11-15136	---
PA-28R-200	Arrow II	11-15138	---
PA-28R-201	Arrow III	11-15140	---
PA-28R-201T	Turbo Arrow III	11-15142	---
PA-28RT-201	Arrow IV	11-15144	---
PA-28RT-201T	Turbo Arrow IV	11-15146	---
PA-28-201T	Turbo Dakota	11-15148	---
PA-28-235	Cherokee	11-15150	---
PA-28-236	Dakota	11-15152	---
PA-30	Twin Comanche	11-15154	---
PA-31-300	Navajo	11-15156	---
PA-31-310	Navajo	11-15158	---
PA31-325	Navajo	11-15160	---
PA-31-350	Navajo	11-15162	---
PA-31P	Navajo	11-15164	---
PA-32-260/300	Cherokee Six	11-15170	---
PA-32R-300	Lance	11-15172	---
PA-32RT-300	Lance	11-15174	---
PA-32-301	----------	11-15178	---
PA-32R-301	----------	11-15180	---
PA-32-301T	Turbo Saratoga	11-15182	---
PA-34-200	Seneca I	11-15186	---
PA-34-200T	Seneca II	11-15188	---
PA-36-285		11-00250	---
PA-36-300		11-00251	---
PA-36-375		11-00252	---
PA-38-112	Tomahawk	11-15192	---
PA-39 C/R		11-00253	---
PA-44-180	Seminole	11-15194	---
PA-44-180T	Turbo Seminole	11-15196	---

CESSNA – BEECHCRAFT – BELLANCA – GRUMMAN – LUSCOMBE – MOONEY – STINSON – COMMANDER – SWIFT

Aircraft Application	Part No.	Our Price
Cessna 150 A, B, C	11-00273	---
Cessna 150 D, E, F, G, H`	11-00274	---
Cessna 150 J, K, L, M	11-00275	---
Cessna 152 no APU	11-00276	---
Cessna 152 with APU	11-00277	---
Cessna 170 A	11-00278	---
Cessna 172 A	11-00280	---
Cessna 172 B, C	11-00281	---
Cessna 172 D, E (rear), F	11-00282	---
Cessna 172 G, H	11-00283	---
Cessna 172 I, K, L, M	11-00284	---
Cessna 172N	11-00285	---
Cessna 172P	11-00286	---
Cessna 175 A, B, C	11-00287	---
Cessna 177 B	11-00288	---
Cessna 177 RG	11-00289	---
Cessna 180	11-00290	---
Cessna 180 A, B, C, D, E	11-00291	---
Cessna 180 J	11-00292	---
Cessna 180 K	11-00293	---
Cessna 182 1956 model	11-00294	---
Cessna 182 A	11-00295	---
Cessna 182 E, F, G, H, J, K, L, M, N, P, Q	11-00297	---
Cessna 185 E & A185E	11-00298	---
Cessna A185F 12 VOLT	11-00299	---
Cessna A185F 24 VOLT	11-02211	---
Cessna U206 C-G	11-00301	---
Cessna U206 C-G	11-00301	---
Cessna 210 E	11-00303	---
Cessna T210 F	11-00304	---
Cessna 210 K, T210K	11-00307	---
Cessna 210 N, T210N	11-00306	---
Beechcraft BE-V35	11-00255	---
Beechcraft BE-C35	11-00256	---
Beechcraft BE-S35	11-00257	---
Bellanca BL-14-19-3	11-00259	---
Bellanca BL-17-30	11-00260	---
Bellanca/Champion 7GCBA, 7ECA	11-00262	---
Bellanca/Champion 7GCAA, 7KCAB	11-00263	---
Bellanca/Champion 7GCB	11-00265	---
Bellanca/Champion 7GCBC	11-00266	---
Grumman GRUM-AA5, 5A, 5B	11-00267	---
Grumman GRUM-AA-1A, 1B, 1C	11-00268	---
Luscombe LU-8E	11-00269	---
Mooney MO-M20C	11-00270	---
Mooney MO-M20F	11-00271	---
Stinson STI-108 1, 2, 3	11-00272	---
Rockwell Commander RW-112	11-00308	---
Rockwell Commander RW-114	11-00309	---
Swift GC-1A, 1B	11-00311	---

PLEASE VISIT OUR WEBSITE FOR MORE DETAILED INFORMATION ON BOGERT AVIATION CABLES.

LABELWORKS LABEL PRINTER

The LW-PX350 is a low-cost, portable wire marking, barcode and general identification label printer up to 3/4" (18 mm) wide. Identify wires and equipment, organize tool cribs, identify storage bins, make safety labels, tag assets and more. With special-function hot keys and automatic cutter, this easy-to-use label maker offers extraordinary flexibility and power at an affordable price. With the LW-PX350, you can print on variety of materials such as; magnetic tape, heat shrink tube, and super strong adhesive tapes. Best of all, the LW-PX350 is backed by the LABELWORKS PX lifetime warranty.

P/N 11-15517 .....---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

LANDING STRIP LIGHT KITS

11-07953

An "airfield in a suitcase" solution. A fast-deployed, 40 light kit of our Landing Strip Light. Used for expeditionary, improvised or temporary airfields. Suitable for a 4,000' runway, if placed at typical 200' intervals (max.). Order multiple kits for longer runways. Operators Liability- The system has been designed to be operated under normal visual meteorological conditions for night flying by a pilot with normal vision. The system is utilized at the operator's discretion and risk. The suppliers accept no liability whatsoever whether implied or explicit for any incidents/accidents that may incur. The operator must ensure that trained personnel operate the system and are made fully aware of aviation safety and that the runway remains clear of animals, pedestrians and obstructions at all times during landings and takeoffs. Only competent and currently night rated pilots may use this system. Use by student pilots training for night rating is prohibited.

Landing Strip Light Kit - 40 light basic kit, packed in a Pelican 1660 wheeled equipment case for ease of storage, handling, and set up. 180 lb. (82 kg) per kit.

Description	Part No.	Price
Landing Strip Light Kit with 40 Lights	11-07953	---
Landing Strip Light Kit Jr. with 10 Lights	11-07954	---
Landing Strip/Runway Light - Not available for sale to European Union at this time, not RoHS compliant.	11-07952	---
Multifunction Strobe - Flashing or Steady! Use steady mode as a backup light or area light. Turn on the light. If it is not in the mode you want, quickly turn it off/on to change modes.	11-07955	---

SOLAR POWERED AVIATION LIGHTS

The solar powered AV-70 aviation light offers enormous benefits over traditional battery and hard-wired aviation lights including low maintenance and no underground wiring. Mounts are not included. Integrated solar/battery system. Dual internal high-performance solar modules angled to maximize solar collection. Fast & easy to deploy – no programming IP68 waterproof rating User-replaceable battery Ultra-high intensity LEDs (no changing globes ever).

Description	Part No.	Price
Solar Runway Edge Light (White)	11-13399	---
Solar Taxiway Edge Light (Blue)	11-13402	---
Solar Runway Threshold Light (Red/Green)	11-13403	---
Solar Tactical Light (Infrared)	11-13405	---

MOUNTS

Mounts are are made out of 7-stage powder-coated heavy duty aluminum and are available in yellow.

Description	Part No.	Price
Frangible stakemount set complete for AV-70. • Including light mounting plate, frangible coupling, ground stake, fasteners (excluding light fixture bolt set) • In ground insertion: 28cm / 11 inches	11-13408	---
Frangible concrete mount solution complete for AV-70. • Includes: light mounting plate, base plate, coupling, anchor bolts (4), fasteners (excluding light fixture bolt set)	11-13409	---

LARGE AIRPORT CONE MARKERS

Avlite's range of airfield cone markers is rotationally-molded using UV-stabilised polyethylene, providing exceptionally long-life without the need for painting.

Features: • Large Cone AV-LC - Ø750mm and Mini Cone (No Longer Available) AV-MC - Ø400mm • Rotationally-moulded polyethylene with a 20 year life expectancy - unmatched by any other product on the market • Less servicing than fibreglass models • Can be easily secured • UV-stabilised • Molded in color - no need for painting • 100% recyclable ..... P/N 11-13406 ..... ---

SOLAR WINDSOCK LIGHTING KIT

Avlite's Solar Windsock Light Kit provides users with a complete, reliable and low maintenance solution to windsock illumination. The AV09-4WL suits existing windsock assemblies and can be installed immediately requiring no costly underground wiring. Windsocks are not included.

Complete stand-alone unit ready for immediate installation. Incorporates four (4) AV-09 lights mounted onto 12mm powder-coated square tubing arms, a 140watt multicrystalline solar module and mounting bracket. Each AV-09 light incorporates a 3watt ultra-high intensity LED as a light source offering up to 100,000 hours of service - no need to change any globes. Integrated solar/battery system. 140watt solar module (standard). 2 x 55Ah SLA batteries (standard).....P/N 11-13410 ..... ---

MICROKIT SOLUTIONS

LANDING HEIGHT & GEAR WARNING SYSTEM -

This is an FAA NORSEE Certified Landing Height System with Gear Warning System. This unit is suitable for aircraft with a retractable landing gear. It includes a built-in eye-safe Class 1 Laser (Light Detection and Ranging) along with an audio interface system so height announcements can be heard when coming to land.

• Aural height announcements starting 200 ft. • Fully enclosed unit with quick-disconnect 5-wire connector • An advanced Audio interface that can be updated to use any language or accent if desired • Built-in Wi-Fi interface for Set-Up and feedback with any Phone (iOS or Andriod), Tablets, or PC/Laptops • Runs on both 12V or 24V Aircraft power Systems. • Gear Warning System with isolated input to detect the status/condition of the Landing Gear using a single wire. • GPS RS232 input from an external GPS.

LHS-200-C units includes Gear Warning System; a physical check with a single wire that can be hooked to the gear switch/lever or to a single gear indicator light to detect if the gear is is still raised when the unit starts to detect the grounds. Once the unit detects the landing gear is still raised, it does not announce height but keeps repeating "Check Landing Gear" every 4 seconds. The 200-C also includes a GPS RS232 Aviation/NMEA 0183 format input. This input when connected to a GPS source on the airplane, will offer higher GPS reported altitude. The 200-C uses the exact same case & laser sensor as the previous 100-B model.

The Landing Height System offers situational awareness aid, added safety, and great advantages.

This unit is approved for installation on an access panel or inspection plate internally (above the access panel; inside the wing or fuselage).

P/N 11-20178 ..... ---

LANDING HEIGHT SYSTEM FOR FIXED GEAR AIRCRAFT

This Landing Height System is FAA-approved for installations on FAA-certified airplanes.

It includes a built-in eye-safe Class 1 Laser (Light Detection and Ranging) along with an audio interface system so height announcements can be heard when coming to land.

• Aural height announcements starting 200 ft. • Fully enclosed unit with quick-disconnect 5-wire connector • An advanced Audio interface that can be updated to use any language or accent if desired • Built-in Wi-Fi interface for Set-Up and feedback with any Phone (iOS or Andriod), Tablets, or PC/Laptops • Runs on both 12V or 24V Aircraft power Systems. • GPS RS232 input from an external GPS.

The Landing Height System offers situational awareness aid, added safety, and great advantages.

This unit is approved for installation on an access panel or inspection plate internally (above the access panel; inside the wing or fuselage).

P/N 11-20177 ..... ---

VBOX PLUS VOICE & DATA RECORDER FOR CERTIFIED AIRCRAFT

Microkit's VBox PLUS is a 50 hours Voice and 50 hours Data Recorder for General Aviation, it is FAA NORSEE Certified.

A great tool for post flight analysis, training, archiving and is a valuable aid post emergency events. Can be enhanced to take advantage of Flight Operations Quality Assurance (FOQA) for certain operators and flight schools. Perfect for recording certain audio notes, or reminders while flying without the need to write down a long message.

This is the General Aviation equivalent of the known "Black Box" but allows downloading voice & data anytime.

• 50 Hours of Voice Recording • 50 Hours of Engine Monitoring System (EMS) Data and/or Telemetry Data Recording using an RS232 feed. • Data portion is intended for airplanes that are equipped with EMS (Engine Monitoring System); capable of supplying real-time or post flight RS232 data feed for various flight parameters such as Engine, Air Data, and GPS Data. Fully supports CSV file output for Garmin Text-Out (G3X & other models) and Dynon Skyview HDX EMS messages • Saves real-time General RS232 Feed (saving data as is) for other equipment that use its own format or TXT/CSV/Binary live output. • Offers a Manual Download option to retrieve data from EMS instruments that offer it manually after pressing a button on the instrument itself. • All Recordings loop back once full. This makes the the last 50 hours of Voice & Data always available to download. • WiFi Interface allowing phones, tablets and laptops to download any Voice & Data segment. • Simple and straightforward installation, hooks up to the back of any headphone jack socket. • Storage module is fully potted for heat, vibration, moisture, shock and fire protection using self-distinguishing, flame retardant, aviation approved, encapsulating compound. • Small unit, measures 4″ x 3″ x 1.5″, weighs 7 oz (< 200 grams) • Installs cleanly behind the panel for continuous, always on, recordings • Installation as a minor alteration on any Aircraft Certified under 14 CFR Part 23 .....P/N 11-20179 ..... ---

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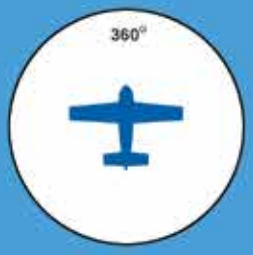
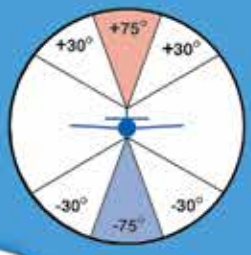
POSITION LIGHTS AND ANTI-COLLISION LIGHT DISTRIBUTION PATTERNS REQUIREMENTS



An approved anti-collision strobe light system must project light 360° around the aircraft's vertical axis. One or more strobe lights can be used.

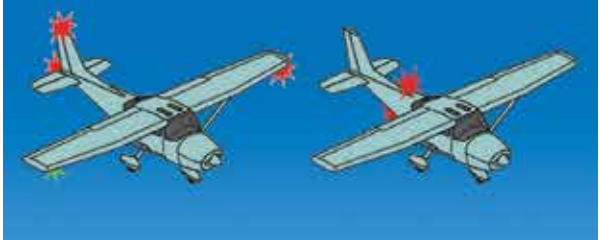
An approved anti-collision strobe light system must project light + or - 30° above and below the horizontal plane of the aircraft. One or more strobe lights can be used. The + or - 75° projected light is required since July 18, 1977.



LOCATIONS ON THE AIRCRAFT FOR ANTI-COLLISION STROBE LIGHTS, TO COMPLY TO THE LIGHT PATTERN REQUIREMENTS

VERTICAL FIN
One anti-collision strobe light mounted on the vertical fin will meet the minimum requirements on most aircraft. A half red and half white lens is recommended.

WING TIP
Two wing tip strobe lights that protrude beyond the wing tip.



ENCLOSED WING TIP
Enclosed wing tip anti-collision strobe lights, require a third strobe light on the tail or vertical fin, to fill in the required light envelope. This is an approved anti-collision system.

FUSELAGE
In a fuselage mounted anti-collision strobe light system, a minimum of two strobe lights are necessary to get the required vertical coverage. This is an approved anti-collision system.

ANTI-COLLISION AND POSITION LIGHT REQUIREMENTS, LOCATIONS, & DISTRIBUTION PATTERNS

All aircraft must have an approved anti-collision light and position light system for nighttime operations. The position lights consist of an Aviation Red on the left side, an Aviation Green on the right and an Aviation White taillight (REF. FAR 23.1389).
The anti-collision lighting system is required under FAR PART 91.205(c). There are different requirements affecting different aircraft. These aircraft are categorized by the date of application for type certificate. Home built aircraft are determined by the date of issuance of the Experimental Operating Limitations. The different categories are as follows:
Aircraft for which type certificate was applied for after April 1, 1957 to August 10, 1971:
These anti-collision systems must produce a minimum of 100 effective candela in Aviation Red or White (REF. FAR 23.1397), 360° around the aircraft's vertical axis, 30° above and below the horizontal plane (REF. FAR 23.1401).
Aircraft for which type certificate was applied for after August 11, 1971 to July 18, 1977:
These anti-collision systems must produce a minimum of 400 effective candela in Aviation Red or White (REF. FAR 23.1397), 360° around the aircraft's vertical axis, 30° above and below the horizontal plane (REF. FAR 23.1401).
Aircraft for which type certificate was applied for after July 18, 1977:
These anti-collision systems must produce a minimum of 400 effective candela in Aviation Red or White (REF. FAR 23.1397), 360° around the aircraft's vertical axis, 75° above and below the horizontal plane (REF. FAR 23.1401).
Note: The position lights must be wired independently of anti-collision lights.

INSTALLATION LOCATIONS

WING TIP:
The major difference in systems is the location of the strobe power supplies which can be mounted locally, one in each wing tip, or a single power supply can be mounted in the fuselage. Installation time can be greatly reduced if done in conjunction with an annual or one hundred-hour inspection. Properly installed power supplies and cabling are necessary for the safe operation of Whelen or any light systems.
FUSELAGE:
Fuselage mounted units can be either self-contained with the power supply and lighthead as one unit, or remote lightheads run off a separate power supply. To meet the field of coverage, one must be on the top of the fuselage and one on the bottom.
VERTICAL FIN:
Finally, if applicable, a single anti-collision light can be mounted on the vertical stabilizer. It can be either a self-contained or remote lighthead depending on the aircraft.

HOME BUILT & KIT AIRCRAFT

For Aircraft with Standard Wing Tips – The most widely used system on the market, this provides all of the components for anti-collision and position lights without the need for a taillight. The power supply is mounted in the fuselage and shielded cable is run to the strobe lights. The following is recommended:

Quantity	Model #	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
1 each	A600PG14	01-0790006-00	Wing tip strobe/position/taillight, 14 VDC
1 each	A600PR14	01-0790006-02	Wing tip strobe/position/taillight, 14 VDC
Note: Model 9034001 and 9034002 can replace Model A600 for a LED solution			
1 each	HD60	01-0750206-00	Installation package

For Aircraft with Enclosed Wing Tip Fairings – If the position and strobe lights are mounted under a clear fairing, a third tail strobe is required.
The following is recommended:

Quantity	Model #	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
1 each	A650PG14	01-0770054-00	Wing tip strobe/position light, 14 VDC
1 each	A650PR14	01-0770054-02	Wing tip strobe/position light, 14 VDC
Note: Model 7111001 and 7111002 can replace Model A650 for a LED solution			
1 each	A500AV14	01-0770024-00	Tail position/strobe light assembly
1 each	HDT390	01-0750205-00	Installation package

For Aircraft with Enclosed Wing Tip Fairings & Wing Tip Mounted Power Supplies – If position and strobe lights are mounted under a clear fairing, the need for a third tail strobe is required. The following is recommended:

Quantity	Model #	Part #	Description
2 each	A490ATSC	01-0770062-03	Power supply
1 each	A650PG14	01-0770054-00	Wing tip strobe/position/taillight, 14 VDC
1 each	A650PR14	01-0770054-02	Wing tip strobe/position/taillight, 14 VDC
Note: Model 7111001 and 7111002 can replace Model A650 for a LED solution			
1 each	A500AV14	01-0770024-00	Tail position/strobe light assembly, 14 VDC
3 each	HS5	01-0750215-00	Installation package

For strobe system recommendations for certified aircraft and for Whelen/ Aeroflash/ Grimes/ Cessna cross reference lists please visit our website WWW.AIRCRAFTSPRUCE.COM

WHELEN ORION 600 SERIES WINGTIP POSITION / ANTI-COLLISION LED LIGHTS

ORION600 Series of FAA/TSO approved LED aviation lighting. Incorporating the latest state of the art LED Technology available in an all-inclusive package, the ORION600 series eliminates the need for external flasher boxes. Flush mountable for a wide variety of applications with minimal integration and easily retrofitable to the Whelen legacy strobe products. The ORION600 series is quite simply the brightest form of LED Anti-collision and Position lighting available. Model ORION600 Position/Anti-Collision Lighthead All LED self-contained wingtip mounted Position/Anti-Collision system. Eliminates the need for external power supplies and reduces current draw and provides thousands of hours of operation. FAA TSO-C96c Class II / TSO-C30c Type II & III.

Whelen No.	Model No.	Color	Voltage	Part No.	Price
01-0771733-01	OR6001G	Green	12V	11-11365	---
01-0771733-02	OR6001R	Red	12V	11-11366	---
01-0771733-11	OR6002G	Green	24V	11-11367	---
01-0771733-12	OR6002R	Red	24V	11-11368	---

WHELEN ORION™650 SERIES LIGHTING

Whelen Engineering is proud to introduce the ORION650 Series of FAA/TSO approved LED aviation lighting. Incorporating the latest state-of-the-art LED Technology available in an all-inclusive package, the ORION650 series eliminates the need for external flasher boxes. Flush mountable for a wide variety of applications with minimal integration and easily retrofitable to the Whelen legacy strobe products. The ORION650 series is quite simply the brightest form of LED Anti-collision and Position lighting available. **Features:** • All LED self-contained wingtip mounted Position/Anti-Collision system. • Fully FAA/TSO-C96a & TSO-C30c Approved • FAR SPEC Certified • Replaceable hard coated polycarbonate lens to maintain maximum light output • Aerodynamic design without sacrificing light output • Exceeds FAA minimum intensity requirements for maximum visibility and increased safety of flight • Environmentally tested and certified to RTCA/D0-160G standards. FAA TSO-C96a Class III/TSO-C30c Type II. STC SA800EA.

Model No.	Description	Part No.	Price
OR6501G	Wingtip PTA Green, 12V	11-18768	---
OR6501R	Wingtip PTA Red, 12V	11-18766	---
OR6502G	Wingtip PTA Green, 28V	11-18767	---
OR6502R	Wingtip PTA Red, 28V	11-18765	---

WHELEN ORION™ 650E SERIES LIGHTING

All LED self-contained wingtip mounted Position/Anti-Collision system. Eliminates the need for external power supplies and reduces current draw and provides thousands of hours of operation.
• Fully FAA/TSO-C96a & TSO-C30c Approved FAR SPEC Certified • Exceeds FAA minimum intensity requirements for maximum visibility and increased safety of flight • Environmentally tested and certified to RTCA/D0-160G standards. STC SA800EA.

Model No.	Description	Part No.	Price
OR6501GE	Embedded PTA Green, 12V	11-11971	---
OR6501RE	Embedded PTA Red, 12V	11-11972	---
OR6502GE	Embedded PTA Green, 28V	11-11973	---
OR6502RE	Embedded PTA Red, 28V	11-11974	---

WHELEN ORION™ 500 SERIES LIGHTING

All LED self-contained wingtip mounted Position/Anti-Collision system. Eliminates the need for external power supplies and reduces current draw and provides thousands of hours of operation.
• Fully FAA/TSO-C96a & TSO-C30c Approved • FAR SPEC Certified • Replaceable hard coated polycarbonate lens to maintain maximum light output • Aerodynamic design without saacrificing light output • Exceeds FAA minimum intensity requirements for maximum visibility and increased safety of flight • Environmentally tested and certified to RTCA/D0-160G standards. STC SA800EA.

Model No.	Description	Part No.	Price
OR5001V	Tail PTA Light White, 12V	11-11975	---
OR5002V	Tail PTA Light White 28 V	11-11977	---

WHELEN PARMETHEUS™ G3 PAR 46 LANDING LIGHT

The Parmetheus™ G3 Par 46. Keeping the tradition of industry leading performance and value, the new Par 46 G3 Series is 2.5 times brighter than the Parmetheus™ Plus all while maintaining the same form, fit and functionality of a drop-in LED replacement for legacy landing lights. Variable voltage 14-28 VDC. FAA-PMA.....P/N 11-19156 ..... ---

WHELEN PARMETHEUS PLUS REPLACEMENT LANDING LIGHTS

Parmetheus Plus PAR36/46 LED lights are a drop-in replacement for outdated Halogen PMA pending. Lightweight, low-current and moisture resistant, they provide stable light output for thousands of operating hours. These PAR 36 LED lights are 40% brighter output than the original Parmetheus Series assemblies, and the PAR 46 are 80% brighter. LED lighting is the ideal technology for aviation applications. Whelen LED lights are time and field-tested for reliability and long-life performance under the tough conditions required by Fire, Emergency, DOT and Law Enforcement professionals around the world. STC-PMA Pending.

Description	Part No.	Price
PAR 36 14V Landing	11-12976	---
PAR 36 14V Taxi	11-12977	---
PAR 36 28V Landing	11-12978	---
PAR 36 28V Taxi	11-12979	---

MICROBURST PLUS SERIES LIGHTING FROM WHELEN

LED Wingtip and Tail Lighting for Experimental and Light Sport Aircraft. **MB3(Red or Green)** .21 lbs., .45 amp (avg). Forward facing Wingtip Nav, with CometFlash 180° LED-Strobe and rear facing white Nav. **MB2(Red or Green)** .20 lbs., .40 amp (avg). Forward facing Wingtip Nav with MB2G Green CometFlash 180° LED-Strobe. **MB1WT** White, .15 lbs, .35 amp (avg). Nav taillight with CometFlash 180° LED-Strobe. Utilizes same mounting as all (A500/A555 Style).

Description	Part No.	Price
MicroBurst I MB1WT Single Taillight	11-08472	---
MicroBurst III Kit MB3K 1 MB3R (R) and 1 MB3G (G)	11-08473	---
MicroBurst II Kit MB2K 1 MB2R (R) and 1 MB2G (G)	11-08474	---
MicroBurst II with Taillight Kit MB2KWT 1 MB2R (R) and 1 MB2G (G) plus 1 MB1WT Taillight	11-08475	---

WAT PAR 36/46 LED LANDING/TAXI LIGHTS

Lazr PAR 36 LED with STC for GA Aircraft. Illumivation is proud to present the Lazr LED. Combining powerful diodes, innovative optics, and patented cooling technology, Illumivation created an LED that is 60% brighter than any certified LED. **Benefits**: • 5-year warranty • Simple drop-in installation • 60-day product buyback guarantee • 60% brighter than any certified LED • Top notch customer service with 24/7 AOG line • Low amp draw • Low heat output • Increased reliability • STC included.

PAR 36.....P/N 11-16619 ..... ---
PAR 46.....P/N 11-16621 ..... ---

WHELEN PARMETHEUS G3 PAR 36 LANDING & TAXI LIGHT

The G3 Series is 2.5 times brighter than the Parmetheus™ Plus all while maintaining the same form, fit and functionality of a drop-in LED replacement for legacy landing lights. No need to specify voltage as the G3 operates from 14-28 volts. **Features**: Direct replacement for outdated PAR36 Halogen and HID lamps. FAA-PMA

Landing Light.....P/N 11-18873 ..... ---
Taxi Light.....P/N 11-18874 ..... ---

WHELEN PARMETHEUS DUO PAR 36 LANDING & TAXING LIGHT

The Parmetheus™ DUO Par 36. The DUO is packed with feautures including landing, taxi, and built in wig wag. Keeping the tradition of industry leading performance and value, the new Par 36 DUO landing light is 2.5 times brighter than the Parmetheus™ Plus all while maintaining the same form, fit and functionality of a drop-in LED replacement for legacy landing lights. This product is available in PAR-36 size, in variable voltage 14-28 VDC. NOT FAA APPROVED. FAA APPROVAL PENDING.

P/N 11-19261 ..... ---

WHELEN PARMETHEUS™ G3 PAR 64 LANDING LIGHT

FAA-PMA Approved. Whelen Aerospace Technologies is proud to announce the newest member of the Parmetheus™ product family, The Parmetheus™ G3 Par 64. Keeping the tradition of industry leading performance and value, the new Par 64 G3 Series has an incredible max output of 1,000,000 candle power, all while maintaining the same form, fit and functionality of a drop-in LED replacement for legacy landing lights. P/N 11-20593 ..... ---

WHELEN 7170000 FLASHER BOX

The Model 7170000 is a state-of-the-art electronic light flasher designed specifically for compatibility with WAT LED Exterior lighting products. This versatile flasher offers two distinct operating modes: steady-on output or alternating flashing outputs. Flasher, 14V or 28 VDC Nominal (5 AMPS MAX) P/N 11-20343 ..... ---

EL

7108051

MODEL 71080 SERIES LED BEACON FOR ROTORCRAFT, (150 EFF. CD) (14 VDC & 28 VDC)

71080 series LED beacons are FAA TSO compliant self-contained LED anti-collision lights (Ref. Class I - 150 effective candlepower). They are designed to replace a range of products. Refer to models and descriptions below. **Electrical**: Models ending: 8001, 8004, 8005, 8014, 8015, 8020, 8051, 8055: 12" Flying Leads. Models ending: 8007, 8017, 8008, 8018: MS3102R10SL-3P Connector

Mechanical: Models: 8004, 8014, 8008, 8018are designed to replace existing beacons utilizing a 5-Hole mounting pattern on a 4.656 diameter bolt circle (Whelen 70285 series/7090501 series or 70900 with A440 adapter). Models: 8005, 8015, 8007, 8017are 3 ¾" opening designed to fit inside an A440 mounting adapter, mounting holes to fit in place of rotating beacons, Whelen Model HRCFA, or 7090004, -05 series LED beacons

Specifications: • Current: 0.87 amps average, 3.0 amps peak • Weight: 0.65 lbs. (295gm) (8001 & 8051) • Lens: Clear polycarbonate • Dimensions: 2.6" (66mm) diameter, exposed height, 3.74" (95mm) (8001 & 8051)

ALL Part Numbers are FAA TSO-C96a Class I (150 ecp) approved.

Model No.	Description	Part No.	Price
7108001	LED red, 28 VDC Rotocraft (no adapter)	11-06173	---
7108001	LED red, 28 VDC & Mt.	11-06174	---
7108051	LED red, 14 VDC & 8 hole mount	11-07686	---
7108004	LED red, 28 VDC & 5-Hole mount	11-07687	---
7108014	Same as 8004, lower Mt	11-07688	---
7108055	LED Red, 14 VDC, 3.75" adapter	11-09909	---
7108005	LED red, 28 VDC, 3.75" adapter	11-07689	---
7108015	Same as 8005, lower Mt	11-07690	---
7108007	LED red, 28 VDC, 3.75" adapter	11-07691	---
7108017	Same as 8007, lower Mt.	11-07692	---
7108008	LED red, 28 VDC & 5 hole mount	11-07693	---
7108018	Same as 8008, lower Mt.	11-07694	---

9052051

MODEL 90520 SERIES LED FLASHING BEACON (RED & WHITE LEDS)

90520 series LED beacons are FAA TSO compliant self-contained LED anti-collision lights (Ref. Class I - 100 effective candlepower). They are designed to replace strobe lightheads as small as the A470A with available models to replace HR self-contained beacons (HRCFA) or our legacy 70900 LED beacon. Mounting plate included with assembly. Refer to models and descriptions below.

Electrical: Models ending: 2001, 2004, 2005, 2014, 2015, 2051, 2055: 12" Flying Leads. Models ending: 2007, 2017, 2008, 2018: MS3102R10SL-3P Connector

Mechanical: Models: 2004, 2014, 2008, 2018 are designed to replace existing beacons utilizing a 5 Hole mounting pattern on 4.656 diameter bolt circle (Whelen 70285 series / 7090501 series or 70900 with A440 adapter). Models: 2005, 2015, 2007, 2017 are 3 ¾" opening designed to fit inside an A440 mounting adapter, mounting holes to fit in place of rotating beacons, Whelen model HRCFA, or 7090004, -05 series LED beacons

Specifications: • Current: 0.67 amps Average, 3.0 amps Peak Weight: 0.65 lbs. (295gm) (-01 & -51) • Lens: Clear polycarbonate • Dimensions: 2.6" (66mm) Diameter, Exposed Height, 3.74" (95mm) (-01 & 51)

ALL Part Numbers are FAA TSO-C96a Class III Approved.

Model No.	Description	Part No.	Price
9052001	LED red/white, 28 VDC & mount	11-07615	---
9052051	LED red/white, 14 VDC & mount	11-07616	---
9052004	LED red/white, 28 VDC & 5 hole mount	11-07617	---
9052014	LED red/white, 28 VDC & 5 lower mount	11-07618	---
9052005	LED red/white, 28 VDC, 3.75" adapter	11-07619	---
9052055	LED Red/White, 14 VDC 3.75" adapter	11-09908	---
9052015	Same as 9052005, lower mount	11-07620	---
9052007	LED red/white, 28 VDC, 3.75" adapter	11-07621	---
9052017	Same as 9052007, lower mount	11-07622	---
9052008	LED red/white, 28 VDC & 5 hole mount	11-07623	---
9052018	LED red/white, 28 VDC & 5 lower mount	11-07624	---

WHELEN 90028 SERIES LIGHTHEADS

90028 series wing tip strobe light used on Beech aircraft with commonality wing tip 1974 & later. It is a direct replacement for 30-0467-( ), 30-1331-( ) and the 30-1467-( ) series.

Note: Do not use with Cannon plug. Light assembly, 45° mounting bracket. Weight: 0.4 lbs. (181gm)• Exposed Height: 1.87" (48mm)• Length: 4.37" (111mm)• Depth: 2.25" (57mm)

P/N 11-00712 ..... ---

MODEL 70509 SERIES

70509 series self-contained halogen flashing anti-collision light with the same mounting pattern as the factory installed beacon on single engine Cessna's 1967 & later. Available in three different lens colors, Aviation red, aviation white and split aviation red/white. When used in conjunction with the model 50519 mounting adapter, it can replace rotating beacons with the 3-3/4" (95mm) dia. mounting hole. **Note**: Not recommended for installation on helicopters or twin engine aircraft. **Specifications**: • Weight: 0.27 lbs. (122gm) • Height: 3.75" (95mm) **Diameter**: 2.65" (67mm) • Power Consumption: 2.7 amps @ 14 VDC, 1.3 amps @ 28 VDC **ALL Part Numbers are FAA TSO-C96a approved, unless otherwise noted.**

Model No.	Description	Part No.	Price
7050900	14V, red lens	11-03235	---
7050901	14V, white lens	11-03268	---
7050902	14V, red/white lens	11-03231	---
7050903	28V, red lens	11-03276	---
7050905	28V, red/white lens	11-03292	---
7050907	28V, red lens w/ mask, Cessna single engine	11-07628	---
50519001	Option Mounting Adapter (Not Approved)	11-03238	---

ORION 360 BEACON LED LIGHTING

ORION 360 s are the 4th Generation LED s for fixed wing aircraft. These are designed to replace legacy 2.6" and 3.67" round s. ORION 360 s are lower profile than legacy product by 60%.

ALL Part Numbers are FAA TSO-C96a Class III approved.

Model No.	Description	Part No.	Price
01-0772010-50	LED Red, 14 VDC, 2.6" Base	11-16637	---
01-0772010-52	LED Red, 14 VDC, 3.75" Base	11-16638	---
01-0772010-10	LED Red, 28 VDC, 2.6" Base	11-16639	---
01-0772010-12	LED Red, 28 VDC, 3.75" Base	11-16641	---
01-0772010-13	LED Red, 28 VDC, 3.75" Base Lower Mount	11-16642	---
01-0772010-70	LED Red/White Split, 14 VDC, 2.6" Base	11-16643	---
01-0772010-72	LED Red/White Split, 14 VDC, 3.75" Base	11-16644	---
01-0772010-30	LED Red/White Split, 28 VDC, 2.6" Base	11-16645	---
01-0772010-32	LED Red/White Split, 28 VDC, 3.75" Base	11-16646	---
01-0772010-33	LED Red/White Split 28 VDC, 3.75" Base Lower Mount	11-16648	---
01-0772010-20	LED White, 28 VDC, 2.6" Base	11-16649	---
01-0772010-22	LED White, 28 VDC, 3.75" Base	11-16651	---
01-0772010-23	LED White, 28 VDC, 3.75" Base Lower Mount	11-16652	---

WHELEN ORION™ 660 SERIES LED WINGTIP POSITION / ANTI-COLLISION LIGHT

The Orion 660 series products incorporate RED or GREEN Forward Position Lights as well as the WHITE flashing Anti-Collision Light function. State of the art LED circuitry is built in to eliminate the need for separate flasher boxes for operation. The footprint, and mounting, are identical to legacy Whelen products for ease of installation and retrofit. Fully FAA/TSO approved. TSO-C96a Class III

Model No.	Approvals	Description	Part No.	Price
OR6601G	TSO-C30c Type II & III	Green, 14 VDC	11-18777	---
OR6601R	TSO-C30c Type I & III	Red, 14 VDC	11-18778	---
OR6602G	TSO-C30c Type II & III	Green, 28 VDC	11-18779	---
OR6602R	TSO-C30c Type I & III	Red, 28 VDC	11-18780	---

EL

WHELEN MODEL 90044 SERIES

5-Hole

90044 series self-contained, 150 watt, quartz halogen flashing anti-collision light. Factory installed on Lear 31, Falcon 900 and Cessna Citation X. It is also a direct replacement for oscillating beacons on most corporate aircraft.

Specifications: • Weight: 1.6 lbs. (726gm) to 2.5 lbs. (1134gm) • Height: 5.5" (140mm) • Power Consumption: 3.25 amps @ 28 VDC • Replaces: G9950-( ), 40-0100-( ), 30-2140-( ), 40-0117-( ), 40-0127-( ), 30-2647-( )

To determine model required for replacement, the following information is needed: Lens color (red or white), upper or lower mounting location, number of mounting holes (5, 8, or 9), weight and position installed. Beacons installed on the rudder.Top replacement on GII and GIII require 9004401 or 9004402 in conjunction with the 16 hole mounting plate, P/N 06-170618-00. FAA TSO-C96a

Model No.	Remarks	Lens	Mount	Base	Part No.	Price
9004453	Masked Lens	white	lower	8 hole	11-07647	---
9004433	Rudder Mount	red	upper	5 hole	11-07641	---
9004457	2.25 lbs., Cable Pigtail (Beech Barons)	red	upper	5 hole	11-01968	---

MODEL 90033 SERIES SELF-CONTAINED LIGHT ASSEMBLIES

2-Hole

90033 series self-contained, 150 watt, quartz halogen flashing anti-collision light which is factory installed on Beechcraft. It is also a direct replacement for oscillating beacons on most corporate aircraft.

Specifications: • Weight: 0.6 lbs.(272gm) to 0.9 lbs. (408gm) • Height: 4.4" (112mm) • Power Consumption: 5.5 amps @ 28 VDC

ALL Part Numbers are FAA TSO-C96a approved.

Model No.	Remarks	Lens	Mount	Base	Part No.	Price
900331	18" cable, no connector	red	lower	2 hole	90033-1	—
900332	18" cable, no connector	white	lower	2 hole	90033-2	---

FOR ADDITIONAL 90044 AND 90033 SERIES LIGHTS PLEASE CALL OR VISIT OUR WEBSITE AT WWW.AIRCRAFT SPRUCE.COM

WHELEN TAIL POSITION LIGHT - MODEL 70805 SERIES

FAA/TSO-C30c Type III approved. The model 70805 series LED Tail Position Light is a high quality, long lasting, modern alternative to incandescent and halogen tail position lights. It offers significant technological upgrades over previous products.

Model No.	Description	Part No.	Price
7096600	28 VDC - no connectors Note: Replaces 01-0770805-00 (FAA TSO-C30c Type III)	11-01228	---
7096601	28 VDC - connectors, case ground used on Beechjet Note: Replaces 01-0770805-01 (FAA TSO-C30c Type III)	11-07699	---
70804A30	Lens, Clear, Hard Coated	11-18499	---

WHELEN LED 7198700 ANTI-COLLISION LIGHT

The Model 7198700 & 7198517 is designed to replace the legacy strobe light (01-0770818-00) and power supply (01-0770006-12 & -17) system on Cessna single engine restart aircraft 1996 & newer. FAA/PMA Approved.

Note: If replacing either 7081800 strobe assembly or 7000617 power supply both 7198517 & 7198700 are needed to convert to LED.

LED Color - Aviation White

LED Anti-Collision Light, White.....P/N 11-18321 ..... ---

Flasher Assembly.....P/N 11-18320 ..... ---

WHELEN MOONEY LED RECOGNITION LIGHT 28V

This LED Wingtip light was designed to be a direct replacement for 70303 legacy halogen lamp in the money wingtips.

14V.....P/N 11-19254 ..... ---

28V.....P/N 11-19377 ..... ---

MODEL A470A SERIES

A470A series remote strobe light assembly is compatible with all Whelen power supplies. It can be installed on the fuselage or the vertical fin. The unique polycarbonate optic lens and reflector design, re-directs stray light rays into the horizontal plane to provide the maximum 360° of uniform light coverage possible. Available in three different lens colors, aviation red, aviation white and split aviation red/white. Available in radio-shielded configurations. All assemblies require either the model H102 or H103 mounting adapter.

Specifications: • Weight: 0.3 lbs. (136gm) • Exposed Height: 3.75" (95mm) • Diameter: 2.5" (64mm)

ALL Part Numbers are FAA/PMA approved.

Model #	Description	Part No.	Price
A470AR	Standard assembly, red lens	11-03273	---
A470AW	Standard assembly, white lens	11-03277	---
A470AS	Standard assembly, split red/white lens	11-03259	---
A470ADR	Radio-shielded assembly, red lens	11-03714	---
A470ADW	Radio-shielded assembly, white lens	11-03291	---
A470ADS	Radio-shielded assembly, split red/white lens	11-04976	---

H102

H103

MODELS H102 & H103

Designed for the model A470A or model A450 series remote strobe lighthead assemblies. The model H102 allows flush mounting of the lighthead to the skin of the fuselage or the vertical stabilizer on later model Cessna Single engines. The H103 is designed for strobe assemblies to be installed in the standard 3-3/4" (95mm) dia. rotating beacon mounting hole.

Model #	Approvals	Description	Part No.	Price
H102	FAA/PMA	Flush mount adapter	11-03243	---
H103	—	Rotating beacon mount adapter	11-03284	---

MODEL A450 SERIES

A450 series remote strobe light assembly is compatible with all Whelen power supplies. It can be installed on the fuselage or the vertical fin. The Pyrex® Glass lens (clear only) makes the assembly suitable for use in severe vibration, chemical and moisture conditions (i.e. agricultural aircraft). Requires either the model H102 or model H103 mounting adapter.

Specifications: • Weight: 0.3 lbs. (136gm) • Exposed Height: 2.25" (57mm) • Diameter: 2.5" (64mm)

Model #	Approvals	Description	Part No.	Prices
A450	FAA/PMA	Standard assembly, clear lens	11-03280	---
SA418-1		Gasket for A450	11-03690	---

MODEL A650 SERIES

Converts W1285 position lights into a position/anti-collision system by removing the existing retainer & replacing it with the A650 assembly. Radio-shielded version available. **Specifications**: • Weight: 0.2 lbs. (91gm) • Exposed Height: 2.4" (61mm)

Model No.	Approvals	Description	Part No.	Price
A650	FAA/PMA	Standard unit	11-03215	---
A650D	FAA/PMA	Radio-shielded	11-07604	---

MODEL A625 SERIES

Many different applications. It can be used for aircraft with tip-tanks with enclosed position lights (under a fairing), or as an add-on strobe on the wing or the tail. Available in a radio-shielded version.

Specifications:

• Weight: 0.2 lbs. (91gm)

• Exposed Height: 1.7" (43mm)

Model No.	Approvals	Description	Part No.	Price
A625	FAA/PMA	Standard unit, clear lens	11-03228	---
A625D	FAA/PMA	Radio-shielded, clear lens	11-03659	---
A625DR	—	Radio-shielded, red lens	11-07607	---

MODEL A440 MOUNTING ADAPTER

A440 mounting adapter is 3.75" for fuselage installations for the HRCFA series and the SACF series Self-Contained, Anti-Collision Lights.

Specifications: Measurement: 3.75"

FAA/PMA.....P/N 11-03699 ..... ---

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MODEL 90340 SERIES STROBE ANTI-COLLISION/LED POSITION LIGHT ASSEMBLY (FOR COMPOSITE WINGTIP STRUCTURE) -

Same as 90340 series with addition of 3 feet of braided bonded protection.

Specifications: • LED Navigation Light Power Consumption: 0.5 amps @ 14 VDC, 0.25 amps @ 28 VDC • Weight: 0.60 lbs. (272gm) 14 VDC, 0.65 lbs. (295gm) 28 VDC • Exposed Height: 2.70" (69mm) • LED Colors: Aviation Red, Aviation Green & Aviation White 1.1 lbs. (499gm) • Lens: Clear RFI coated glass: strobe, Clear Polycarbonate: Navigation Lights

Model No.	Approvals	Description	Part No.	Price
9034001	FAA TSO-C96a, TSO-C30c Types I	Pos Grn, 14V	11-05625	---
9034002	FAA TSO-C96a, TSO-C30c Types I	Pos Red, 14V	11-05626	---
9034003	FAA TSO-C96a, TSO-C30c Types I	Pos Grn, 28V	11-05627	---
9034004	FAA TSO-C96a, TSO-C30c Types I	Pos Red, 28V	11-05628	---
19-170049-010	Retainer, A600 Lens Complete		11-13903	---

MODEL 71110 SERIES STROBE ANTI-COLLISION/LED POSITION LIGHT ASSEMBLY -

71110 series is a wing tip mounted strobe anti-collision/position light assembly utilizing LED's for the forward position lights. The LED's provide a significant reduction in current draw over conventional position light bulbs. The strobe light lens assembly is radio shielded for maximum EMI/RFI protection. Direct replacement (exact footprint) for the Whelen Model A650PG/PR series without replacing the current strobe power supply. Navigation light portion is wired with flying leads.

Specifications: • LED Colors: Aviation Red, Aviation Green • LED Navigation Light Power Consumption: 0.25 amps @ 14 VDC or 28 VDC **Weight**: 0.45 lbs. (204gm) 14 VDC, 0.50 lbs. (227gm) 28 VDC • Exposed Height: 2.70" (69mm) • Lens: Clear RFI coated glass: strobe, Clear Polycarbonate: Navigation Lights

Model #	Approvals	Description	Part #	Price
7111001	FAA TSO-C96a / TSO-C30c Type II	Pos Green, 14 V	11-05630	---
7111002	FAA TSO-C96a / TSO-C30c Type I	Pos Red, 14 V	11-05633	---
7111003	FAA TSO-C96a / TSO-C30c Type II	Pos Green, 28 V	11-05635	---
7111004	FAA TSO-C96a / TSO-C30c Type I	Pos Red, 28 V	11-05636	---

MODEL A500A SERIES -

A500A series combination strobe/tail navigation light used when the wing tip anti-collision lights are mounted in an enclosure and can't provide 360° of strobe coverage. It is a direct replacement for the standard tail position light. Available in a radio-shielded version. Voltage (14 or 28) and mounting (horizontal or vertical) must be specified when ordering.

Specifications: • Weight: 0.3 lbs. (136gm) • Exposed Height: 1.7" (43mm) • Diameter: 1.5" (38mm) FAA/PMA, FAA TSO-C30b

Model No.	Description	Part No.	Price
A500AV14	Vertical Mount, 14V	11-03223	---
A500AV28	Vertical Mount, 28V	11-03255	---
A500AH14	Horizontal Mount, 14V	11-03249	---
A500AH28	Horizontal Mount	11-03264	---
A500ABV2	Beech Special 24V, MS connector	11-03716	---

MODEL 71105 SERIES LED POSITION LIGHT ASSEMBLY -

71105 series are fully FAA TSO compliant forward position lights. LED's provide a significant reduction in electrical current draw over conventional light bulbs. The 71105 is our latest design and lowest priced forward position light. Direct replacement for Whelen Model W1285 series (Version STC'd on Learjet Aircraft). **Specifications**: • LED Navigation Light Power Consumption: 0.25 amps @ 14 VDC or 28 VDC • LED Colors: Aviation Red, Aviation Green **Weight**: 0.20 lbs. (91gm) 14 VDC, 0.25 lbs. (113gm) 28 VDC • Exposed **Height**: 2.70" (69mm) • Lens: Clear Polycarbonate

Model #	Description	Volt	Color	Leads	Part No.	Price
7110501	LED Forward Position Light FAA/TSO-C30c Type II	14	Green	Std - Red/ Black	11-05629	---
7110502	LED Forward Position Light FAA/TSO-C30c Type I	14	Red		11-05631	---
7110503	LED Forward Position Light FAA/TSO-C30c Type II	28	Green		11-05632	---
7110504	LED Forward Position Light FAA/TSO-C30c Type I	28	Red		11-05634	---
7110512	LED Forward Position Light FAA/TSO-C30c Type I	28	Red	Shielded: White - White/Blue - Shield	11-13983	---

WHELEN LED TAIL POSITION LIGHTS 71554 SERIES

Whelen 71554 Series LED Tail Position Lights are an exact footprint for Whelen Models A555A and 71011 Tail Lights.

ALL Part Numbers are FAA TSO-C30c Type III, E-TSO approved.

Model No.	Description	Part No.	Price
7155401	Horizontal Mount, 28 VDC	11-10682	---
7155402	Vertical Mount, 28 VDC	11-10683	---
7155403	Vertical Mount (Cessna), 28 VDC	11-10684	---
7155411	Horizontal Mount, 14 VDC	11-10568	---
7155412	Vertical Mount, 14 VDC	11-10686	---

MODEL 50626 SERIES STROBE TUBE ASSEMBLY -

50626 series strobe tube assemblies are used with the following model numbers listed in chart below:

Model #	Description	Used on	Part No.	Price
5062600	6"	Model 9011102	11-07681	---
5062601	6" w/Grom	Model 9034000 - 07, 20, 21 Model 7111001 - 04	11-07682	---
5062602	12.5" w/Grom	Model 9034008, 09	11-07683	---
5062603	2" w/Grom	Model 9037501, 02	11-07685	---

MODELS A610 & A612 -

A610 flash tube and A612 glass lens are used for installing wing tip strobes in single engine Cessna's 1972 and later. The existing position light retainer is modified to accommodate the lens, and the flash tube is mounted directly behind. The unique magnifying design of the A612 lens increases the light intensity by two to three times in the horizontal plane. These items may be used for custom installations or as spare parts for existing light assemblies. The A612 lens is available in Aviation Red and an RFI coated version. Lenses meet material requirements of MIL-C-7989B Class B.

Specifications: • Drawing Number A612: 90005 • A610 Flash Tube Weight: 0.09 lbs. (41gm) • A612 Lens Weight: 0.08 lbs. (36gm)

Model No.	Approvals	Description	Part No.	Price
A610	FAA/PMA	Standard unit, 6" leads	11-03213	---
A610M	FAA/PMA	Molex connector, 6" leads	11-03734	---
5027601	FAA/PMA	14" leads	11-07611	---
5027602	FAA/PMA	12.5" leads	11-07612	---
A612	FAA/PMA	Standard clear lens	11-03222	---
A612D	—	Radio-shielded, clear lens	11-03735	---
A612DR	—	Radio-shielded, red lens	11-07614	---

EL

HOW TO CHOOSE A POWER SUPPLY AND ABOUT COMETFLASH®

The power supply needed depends on the application, and the mounting location. Model HDACF Series is a fuselage mounted power supply that will power two or three lights. Model A490ATSC Series is designed for installation adjacent to the strobe lighthead and will power one light assy. Model A490TCF Series is the most economical power supply when adding only one light. It mounts adjacent to the strobe lighthead assembly (not legal for light output with red strobe light). Most other Whelen power supplies are application specific, call for details. Unless otherwise noted, all power supplies are CometFlash®. A major advancement in the field of safety lighting. By pulsing the flash tube four times in rapid succession, the effective "on-time" of the strobe is increased from 2/1000 of a second to 4/10 of a second. This increases your airplane's visibility.

MODEL HDACF SERIES - HDACF series provides simultaneous flashing, alternate flashing or both. It will operate one, two or three strobe lightheads. Operating the wing tip strobes in the alternating mode will provide an accumulated 42 joules of power to each light. When in the simultaneous mode, the accumulated power to each light is 21 joules. In the three light mode, the winl flash simultaneous at an accumulated 21 joules each, they alternate with a third light operating at an accumulated 42 joules. On the trigger selector outlet, a switch mounted in place of the jumper will allow wing tip outlets 2 & 3 to be turned off, while the tail outlet 1 will remain on. This power supply will operate from 10 to 30 VDC.FAA/PMA
Specifications: • Power Consumption: 7.0 amps @ 14 VDC; 3.5 amps @ 28 VDC • Weight: 2.1 lbs. (953gm) • Length: 5.50" (140mm) • Width: 5.0" (127mm) • Height: 2.37" (60mm).....P/N 11-16218 ..... ---

MODEL A490ATSC SERIES - Operates one strobe lighthead. It produces an accumulated 34 joules of power and can be equipped to flash simultaneously with up to 5 other like units by connecting an 18 gauge wire between outlet 3 on the input power connector. This power supply will operate from 10 to 30 VDC.
FAA/PMA
Specifications: • Power Consumption: 4.0 amps @ 14 VDC; 2.0 amps @ 28 VDC • Weight: 1.7 lbs. (771gm) • Length: 5.0" (127mm) • Width: 3.12" (79mm) • Height: 3.06" (78mm).
P/N 11-02666 ..... ---

MODEL A490TCF
Operates one strobe lighthead. It produces an accumulated 19 joules of power. It will only meet 400 CP when used with the A470A-W. This unit cannot be synchronized. Operates from 10 to 30 VDC (not approved for use with red strobe light).
Specifications: • Power Consumption: 1.7 amps @ 14 VDC; 0.85 amps @ 28 VDC • Weight: 1.2 lbs. (544gm) • Length: 5.0" (127mm) • Width: 3.12" (79mm) • Height: 2.38" (60mm)
FAA/PMA • 20" leads, amp connectors
P/N 11-14714 ..... ---

MODEL A490TCCF
Same as the A490TCF but has a mounting plate with additional holes that directly replaces factory installed systems on single engine Cessna's, Aero Commanders, and Grumman Americans. FAA/PMA • 20" leads, amp connectors
P/N 11-02661 ..... ---

MODEL 01-0770062-05 (CIRRUS)
Operates one (1) strobe light head at 36 joules in CometFlash. It is equipped to flash simultaneously with up to 5 other like units by connecting an 18 gauge wire between outlet 3 on the input connector.
Specifications: • Power Consumption: 1.6 amps avg. Input Voltage: 28 VDC Nominal • Weight 1.3lbs
Length: 5.00" • Width: 3.12" • Height: 3.00"
P/N 11-08306 ..... ---

READING LIGHT - The Model A325 ML reading light will replace original equipment on 14 volt Piper aircraft. It is designed for passenger convenience and is equipped with an on/off slide switch. Specify voltage (14V or 28V).
14V.....P/N 11-03294 ..... ---
28V.....P/N 11-03682 ..... ---

MODEL 7114416 'GOOSENECK' LED LIGHT ASSEMBLY
Whelen LED Gooseneck Light Assembly. Features a positive off position & rheostat controlled light intensity. Available in 28VDC only.
• Power Consumption: 0.06 amps @ 28 VDC. • LED Colors: Aviation White • Weight: 0.46 lbs. (209gm). • Black Nylon Hood: fixed in position.
P/N 11-07701 ..... ---

A350 WHELEN POST LIGHTS
A350 and A350CN series instrument post light assemblies are designed to illuminate the instrument panel and function as instrument mounting bolts. The A350 is identical to the A350CN, but without the connector nut.
Specifications: • Drawing Number A350: 70116 • Drawing Number A350CN: 70119 • Exposed Height: .875" (22mm) without spacer, 1.00" (25mm) with spacer • Power Consumption: 0.2 amps @6 VDC, 0.08 amps @14 VDC, & 0.04 amps • @ 28 VDC • Weight: 0.037 lbs. (17gm)
Post Light Assembly w/ nut black post
P/N 11-08133 ..... ---

Model Number	Description	Part No.	Price
A350CN09	White, 14 VDC	11-03205	---
A350CN10	Red, 14 VDC	11-03214	---
A350CN15	White, 28 VDC	11-03210	---
A350CN16	Red, 28 VDC	11-03653	---

INSTALLATION CABLE KITS - Cable kits include all required connectors for hooking up the strobe light to the power supply only. Warning placards included. All cable is 16 gauge 3/C shielded. The cable diameter is .275" (7mm). Weight is .050 lbs. per linear foot.
(Kits do not include switches or breakers)

Model No.	Description	Part No.	Price
HS5	5' Cable kit	11-04204	---
HT10	10' Cable kit	11-08173	---
HS30	30' Cable kit	11-03285	---
HD60	60' Cable kit	11-02667	---
HDT390	90' Cable kit	11-02668	---
HT	Install Placard Kit: Includes (1) A421 & (1) A421-1 Pilots Warning Placards, (1) A445 Switch Label. No connectors included.	11-02669	---

REPLACEMENT CONNECTORS - Replacement connector kits and assemblies for cables.

Model No.	Description	Part No.	Price
A441	3 Position male with pins kit	11-03211	---
A442	3 Position male with sockets kit	11-03212	---
A444	2 Position male with pins assembly	11-03700	---
A446	2 Position female with sockets assembly	11-03702	---
A447	4 Position male with pins	11-07706	---
A448	4 Position female with sockets	11-07707	---

CRIMP TOOL - Pin and socket crimping tool.
P/N 11-07708 ..... ---

NOTE: All non-FAA approved Whelens parts are signified by a (—) in the approval column. Parts without FAA approval may still be purchased, however, installation of these parts on U. S. Type Certificated products may require additional FAA approvals.

WHELEN 72170 SERIES LED RECOGNITION LIGHT - Experience enhanced illumination with our 72170 Series LED recognition light, tailored for diverse aircraft needs. Reap the myriad benefits of LED technology: no EMI/RFI interference, energy efficiency with low current consumption, minimal heat generation, and impressive longevity. Especially suited for areas sensitive to vibrations. This product comes with pre-attached flying leads and offers a variety of beam spreads. An upgraded version with an integrated MS connector is also at your disposal.

Upgrade Alert: The 72170 seamlessly replaces the 71125 series, shining 2.5 times brighter. Now catering to diverse power needs with its variable voltage feature, ranging from 14-28VDC. Swap out your 71125 with the 72170 for a brighter, more efficient lighting solution.

Brackets and mounting hardware not included

Model No.	Description	Part No.	Price
7217009	2"x3", 14-28VDC, 150° Beam Pattern	11-20286	---
0772170	2"x3", 14-28VDC, 10° Beam Pattern	11-20287	---
0772170	2"x3", 14-28VDC, 20° Beam Pattern	11-20288	---
0772170	2"x3",14- 28VDC, 30° Vertical Beam Pattern	11-20289	---
0772170	2"x3", 14-28VDC, 150° Beam Pattern	11-20290	---
0772170	2"x3", 14-28VDC, 10° Beam Pattern	11-06169	---
7217002	2"x3", 14-28VDC, 20° Beam Pattern	11-20270	---
7217003	2"x3", 14-28VDC, 30° Vertical Beam Pattern	11-20271	---

MODEL A775 SERIES - A775 series recognition light assembly which produces up to 22,000 beam candlepower using only a 35 watt lamp.

Specifications: • Drawing Number: 70110 • Weight: 0.14 lbs. (64gm) • Width: 3.25" (83mm) • Height: 1.75" (44mm) • Depth: 2.25" (57mm) • Power Consumption: 2.5 amps @ 14 VDC, 1.25 amps @ 28 VDC

Model #	Approvals	Description	Part No.	Price
7011001	FAA/PMA	Molex connector (Piper), 14V	11-07704	---
7011002	FAA/PMA	Molex connector (Piper), 28V	11-07705	---
A77528	—	12" leads, 28 VDC	11-03742	---

A715-1 LANDING LIGHT

The Model A715-1 landing light is standard equipment on new Beechcraft, and will retrofit into older aircraft, as well. Accommodates PAR 36 sealed beam lamp. Order lamp separately (#4509 - 100W, 12V; #4594 or #4613 100W, 24V; Wt. 1/2 lb. Size: 4-3/4" dia. x 6-1/2" long x 2-1/8" deep.

P/N 11-03281 ..... ---

71685 RECOGNITION/LANDING LIGHT

71685 Series LED Recognition/Landing light assembly. Dimensions H x W x D: 2.07" (53mm) x 3.64" (93mm) x Depth: 0.979" (25mm)

14V.....P/N 11-11189 ..... ---
28V.....P/N 11-11190 ..... ---

WHELEN VERTEX™ SUPER-LED® LIGHT

Only 7/8 in height, this small hemispheric LED lighthead is perfect for most applications where size and intensity are critically important. Self-contained unit using an in-line combination lamp driver/flasher. This self-contained LED Hideaway requires only a one inch hole in any composite style head light, cornering light or tail light assembly to deliver true wide angle warning to the front, side and rear of your vehicle... without interference to your vehicle computer and warning equipment! Less than 1 tall, it may also be surface mounted to outside surfaces anywhere on the vehicle!

Model No.	Description	Dimensions	Part No.	Price
VTX609C	Clear Anti-Collision	1"H x 1.625" Dia.	11-12475	---
VTX3609R	360° Side Emitter Lighthead	1.49" Dia.	11-15417	---
VTXFC11	Chrome Flange Kit	2.25"L x 1.7"W x 0.4"W	11-15423	---
VTXFB11	Black Flange Kit	2.25"L x 1.7"W x 0.4"W	11-15424	---

WHELEN LED RECOGNITION LIGHT ASSEMBLY

LED Form / Fit / Function replacement to A775 & A775EXP series. LED Form / Fit / Function replacement to A775 & A775EXP series. Used only for Experimental Aircraft.

14V .....P/N 11-14105 ..... ---
28V .....P/N 11-14106 ..... ---

WHELEN 71434 LED POST LIGHT

Product (Aviation) - The 71434 Series LED (Light Emitting Diode) instrument post light assemblies are designed to illuminate the instrument panel and function as instrument mounting bolts. They are a high quality, long lasting modern alternatives to standard incandescent post lights. Model 71434 is identical to the 71450 without the connector nut. Both are available in Black and Grey. 14V version available with White LED, 28V version with White or Red. Made to replace existing A350 and A350CN assemblies.

Description	Part No	Price
White Long Black 14V	11-13607	---
White Long Black 28V	11-13610	---
White Short Black 14V	11-13608	---
White Short Black 28V	11-13612	---

WHELEN 71450 LED POST LIGHT

Product (Aviation) - The 71450 Series LED (Light Emitting Diode) instrument post light assemblies are designed to illuminate the instrument panel and function as instrument mounting bolts. They are a high quality, long lasting modern alternatives to standard incandescent post lights. Model 71434 is identical to the 71450 without the connector nut. Both are available in Black and Grey. 14V version available with White LED, 28V version with White or Red. Made to replace existing A350 and A350CN assemblies.

Description	Part No	Price
White Long Black 14V	11-13622	---
White Long Black 28V	11-13625	---
White Short Black 14V	11-13623	---
White Short Black 28V	11-13627	---

WHELEN POST LIGHT ASSEMBLY A350

Instrument post light assemblies designed to illuminate the instrument panel and function as instrument mounting bolts. The A350 is identical to the A350CN, but without the connector nut. P/N 11-18794 ..... ---

WHELEN 71898 SERIES LED RECOGNITION LIGHT

Whelen 71898 Series 28V Led Recognition Light is designed to be direct replacement for A775EXP and 7042900 assemblies. Model 71898P0 is painted White and is the spare part for the legacy 7045301 recognition light used in the 90029 assembly. 7189801 is the replacement for 7042900 (King Air B300's) PMA approvals pending.

Model No.	Description	Part No.	Price
7189801	LED Recognition Light	11-17270	---
71898P0	LED Recognition Light - Painted	11-17271	---

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WHELEN CHROMA™ POSITION LED LAMPS

Direct replacements for W129028 / 129028 / A7512-24 / W628 / 628 incandescent bulbs. Unique reflector design allows for full FAR coverage compliance. Robust machined base provides vibration resistance tested in accordance with RTCA/DO160 CAT U2, Curves F, F1 for rotorcraft. All electronic logic conformal coated for weather resistance. Nickel Plated hard contact eliminates premature wear. Keeps original lens configuration to maintain FAA approvals of light assembly. LED bulbs have a 10,000 hour operating life, while incandescent bulbs have a fragil e filament and a 300 hour average life. 85% reduced current draw. Five year warranty.

Color	Volts	Part No.	Price
Red	14	11-15017	---
Red	28	11-15012	---
Green	14	11-15019	---
Green	28	11-15013	---

WHELEN SELF-CONTAINED ANTI-COLLISION STROBE 70285 SERIES

Model 90101 series is similar to the HTCF but has military connectors. It is available in SingleFlash or CometFlash. Several different configurations are available for application specific installations.

Specifications:

• Power Consumption: 4 Amps @ 14 VDC; 2 Amps @ 28 VDC • Weight: 1.7 lbs (771gm) • Length: 5.0 (127mm) • Width: 3.12 (79mm) • Height: 3.50 (89mm) • Approvals: FAA/ TSO-C96a

Model No.	OEM Part No.	Description	Part Number	Price
9010104	01-0790101-04	24 joule, SingleFlash, w/add on mounting plate	11-01972	---
9010102	01-0790101-02	34 joule, CometFlash, replaces Grimes 60-2799 when used with mounting brackets	11-16943	---
9010105	01-0790101-05	34 joule, CometFlash	11-16944	---

WHELEN 71994 SERIES LED ANTI-COLLISION LIGHT ASSEMBLY

The 71994 is a self-contained LED Anti-Collision light assembly designed to replace the original 71818 strobe light on Cessna Restarts. These assemblies are the same fit, form, function as the original light assembly and come with the comet flash pattern. The 71994 light is TSO-C96a Class II approved and comes with a 5-year warranty.

Specifications: • TSO-C96a Class III Approved • Weight: 0.46 lbs • Voltage: 28 VDC • Current Draw: 1.8 Amps Pulse (0.32 Amps Average)

P/N 11-17559 ..... ---

WHELEN ORION™ 550 WHITE TAIL POSITION / ANTI-COLLISION LED LIGHT

Whelen Aerospace Technologies (WAT) provides the highest performance lighting system for the Orion 550 Series products incorporating both the WHITE flashing Anti-Collision light, and the Tail Position light functions. State of the art LED circuitry is built in to eliminate the need for separate flasher boxes for operation. The footprint, and mounting, are identical to legacy Whelen products for ease of installation and retrofit. FAA/TSO.....P/N 11-18745 ..... ---

WHELEN 02-0371773-30 LENS ASSEMBLY WITH HARDCOAT

ORION600 Series of FAA/TSO approved LED aviation lighting. Part 02-0371773-30 is a Whelen replacement lens assembly with hardcoat.

FAA TSO-C96c Class II / TSO-C30c Type II & III

P/N 11-18176 ..... ---

WHELEN REPLACEMENT BULB 34-0070372-01

Replacement bulb.....P/N 11-18795 ..... ---

WHELEN 90613 SERIES LED RH GREEN WINGTIP ANTI-COLLISION LIGHTS

90613 is a self-contained LED wingtip light head assembly utilized for Cessna Caravans. The unit complies with TSO-C96a Class II (400 ECP) anti-collision light requirements and TSO-C30c forward / rear position light requirements. Model 9061391/ 92 is a direct mechanical replacement, same fit / form / function for the legacy Caravan wingtip lights. Currently, these assemblies are TSO approved with STC PENDING.

Model No.	OEM Part No.	Description	Part No.	Price
9061391	01-0790613 -91	RH Green Wingtip Position Anti-Collision LED	11-17549	---
9061392	01-0790613 -92	LH Red Wingtip Position Anti-Collision LED	11-17550	---

MODEL A650 PG/PR SERIES

Wing tip with anti-collision & forward position lights can be used to convert non-Whelen position lights into a position/anti-collision light system. The small size allows for mounting into a wing tip enclosure. Available in 14 or 28V and in a radio-shielded version. The forward position lamp is 26 watts.

Specifications: • Weight: 0.6 lbs. (272gm) • Position Lamp Power Consumption: 2 amps @ 14V; 1 Amp @ 28V • Exposed Height: 2.4" (61mm) • Length: 4.0" (102mm) • Width: 1.7" (43mm)

ALL Part Numbers are FAA/PMA approved.

	Description	Part No.	Price
A650PG14	Position Green, 14V	11-03217	---
A650PG28	Position Green, 28V	11-03239	---
A650PR14	Position Red, 14V	11-03218	---
A650PR28	Position Red, 28V	11-03247	---
A650PGD1	Position Green, 14V, Radio-Shielded	11-03639	---
A650PGD2	Position Green, 28V, Radio-Shielded	11-06336	---
A650PRD1	Position Red, 14V, Radio-Shielded	11-03642	---
A650PRD2	Position Red, 28V, Radio-Shielded	11-06337	---

WHELEN BLAZE™ LED WINGTIP POSITION / ANTI-COLLISION LIGHT FOR EXPERIMENTAL / LSA

Whelen Blaze™ an all LED wingtip position, anti-collision and tail light assembly for the LSA and experimental market. Low drag and light weight without compromising safety and visibility.

Note: For Experimental Use Only. Not TSO Approved.

Specifications: • Weight: 0.19 lbs • Position LED Colors: Aviation Red / Aviation Green

• Anti-Collision LED Color: Aviation White

• Measurements: 4.5" L x 1.3" W x 1.2" H

Red + Green Bundle.....P/N 11-18403 ..... ---

WHELEN 90852 ANTI-COLLISION LIGHT SERIES

The Model 90852 Series is an FAA/TSO Approved self-contained LED anti-collision beacon. It's solid-state circuitry and LED light source allow for replacement of the legacy Whelen 90033 series halogen flashing beacons. Benefits include no moving parts, no EMI/RFI, no inrush current spikes and crisp on off cycles. There are several models available to provide compatibility with existing mounting patterns and profiles of the legacy beacons, thus eliminating the need to alter the aircraft.

Approvals: FAA TSO-C96a Class III

Model No.	Description	Part Number	Price
9085203	8 hole mount Red (Lower Mount)	11-19446	11-19446
9085205	5 hole mount Red (Upper Mount)	11-19447	11-19447
908525D	5 hole mount Red (Lower Mount)	11-19448	11-19448
9085206	5 hole mount White (Upper Mount)	11-19450	11-19450
9085208	5.12" Diameter round mount White (Lower Mount)	11-19451	11-19451
9085204	8 hole mount White (Lower Mount)	11-19452	11-19452

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STROBE SYSTEM PARTS

Model No.	Description	Part No.	Price
A402R	Red Optic Lens	11-03254	---
A402W	White Optic Lens	11-03271	---
A402R/W	Split Red/White Optic Lens	11-03248	---
A406	Flash Tube Assembly	11-03687	---
A409	Clamp Ring Assembly	11-03688	---
A414A, HDH, CF	HDH,CF Power Supply	11-03632	---
A417-1	Interconnecting Cable	11-03658	---
A421-1	Warning Decal	11-03691	---
A425	Tail Strobe Lens Retainer	11-03692	---
A426	Wingtip Strobe Lens Retainer	11-03233	---
A427	Flash Tube Assembly	11-03219	---
A427-M	Flash Tube Assembly with Molex Connector	11-03272	---
A427-4	Rubber Pad Spacer	11-03693	---
A428	Wingtip Strobe Lens	11-03236	---
A428-C	Wingtip Strobe Radio Shielded Lens	11-03694	---
A428-D	Wingtip Strobe Radio Shielded Lens plus A426 Retainer Assembly	11-03290	---
A469A	Strobe Tube Assembly	11-03242	---
A430	Tail Strobe Head Assembly	11-03696	---
A435	Flash Tube Assembly	11-03697	---
A440	WRM-65 Mounting Adapter, for HR,DF & SA,DF	11-03699	---
A441	AMP Connector and 3 Pins	11-03211	---
A442	AMP Connector and 3 Sockets	11-03212	---
M441	Molex Connector and 3 Pins for Piper Installation	11-04215	---
M442	Molex Connector and 3 Sockets for Piper Installation	11-04216	---
A444	AMP Connector and 2 Pins	11-03700	---
M444	Molex Connector and 2 Pins for Piper Installation	11-04217	---
A446	AMP Connector and 2 Sockets	11-03702	---
A450	Strobe Head Assembly	11-03280	---
A455	Gasket	11-03703	---
A457A	Tail Light Lens for A500 and A555	11-03227	---
A457A-D	Radio Shielded Tail Light Lens Assembly for A500	11-03704	---
A466A-1	Radio Shielded Lens	11-03708	---
A467	Gasket for A470	11-03709	---
A469B	Flash Tube Assembly	11-03225	---

Model No.	Description	Part No.	Price
A470-D	Radio Shielded Remote Strobe Head Assembly, Specify Color	11-03291	---
A470-A-D-S	Strobe Head Assembly, Shielded Red/White	11-04976	---
A470-D-R-SU	Radio Shielded Remote Strobe	11-03714	---
A490 TC CF	14V Power Supply	11-02661	---
A500-V-D-M-14	Radio Shielded Tail Position & Strobe Light Head Assembly Vertical Mount with Molex Connector	11-03722	---
A500B-V-28	Tail Position & Strobe Light Head Assembly (Beech)	11-03716	---
A506	Flash Tube & Socket Assembly	11-03274	---
A506-B	Flash Tube & Socket Assembly	`	---
A508-14	Halogen Lamp for A500, A555, A600	11-03216	---
A508-28	Halogen Lamp for A500, A555, A600	11-03208	---
A509	Lamp Shield for A500 and A555	11-03727	---
A510-28	Lamp Assembly for A500 & A555	11-03266	---
A50828	Lamp for A500, A555, & A600	11-03208	---
A605	Base Plate Assembly	11-03733	---
A606	Retainer	11-03260	---
A610	Flash Tube Assembly	11-03213	---
A610-M	Flash Tube Assembly	11-03734	---
A612	Magnifying Lens	11-03222	---
A612-D	Radio Shielded Lens Retainer Assembly	11-03735	---
A615	Lens for A600 Tail Light	11-03230	---
A616	Gasket for A600 Tail Light	11-03261	---
A625	Tail Strobe Head	11-03228	---
A625-D	Radio Shielded Tail Strobe Head Assembly	11-03659	---
A626	Retainer Lens	11-03229	---
A626-D	Radio Shielded Lens Retainer Assembly	11-03736	---
A627	Flash Tube Assembly	11-03263	---
A628	Retainer Lens	11-03737	---
A629	Gasket	11-03660	---
A650	Wingtip Strobe Head Assembly	11-03215	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

STROBE SYSTEM PARTS #3

Model No.	Description	Part No.	Price
A650-PG-D-14	Wingtip Position & Strobe (Radio Shielded) Head assy.	11-03639	---
A650-PG-D-28	Wingtip Position & Strobe (Radio Shielded) Head assy.	11-06336	---
A650-PR-D-14	Wingtip Position & Strobe (Radio Shielded) Head assy.	11-03642	---
A650-PR-D-28	Wingtip Position & Strobe (Radio Shielded) Head assy.	11-06337	---
A730	Tail Flood Light Assembly	11-03740	---
A1610-14	Power Supply	11-03666	---
C-70178-1	Power Supply (Single Flash)	11-04132	---
C-70188-1	Power Supply	11-04133	---
H102	“B” Mounting Adapter	11-03243	---
H103	“A” Mounting Adapter 3-3/4”	11-03284	---
SA402	Lens Assembly for SA & A450	11-04259	---
SA406	Flash Tube Assembly for SA & A450	11-03250	---
W1282	Forward Position Light Lens Retainer	11-03232	---
W1283	Forward Position Light Gasket	11-03209	---
W1284-G	Forward Position Light Lens (Green)	11-03206	---
W1284-R	Forward Position Light Lens (Red)	11-03207	---
W1285-2	Forward Position Light Base	11-03244	---
W1284C	Lens, Clear	11-04117	---
W1290-14	14 Volt Position Light Bulb	11-02602	---
W1290-28	28 Volt Position Light Bulb	11-02604	---
90029-1	Combination Wing-tip Light Assy.	90029-1	---
90029-2	Combination Wing-tip Light Assy.	90029-2	---
90029-3	Combination Wing-tip Light Assy.	90029-3	---
90029-4	Combination Wing-tip Light Assy.	90029-4	---
90033-1	Anti Collision Beacon Assy. Red	90033-1	---
90033-2	Anti Collision Beacon Assy. White	90033-2	---
34-0226010-91	Lamp Quartz 150 Watt	11-05091	---

SURFACE ILLUMINATING LIGHTS

Model No.	Description	Part No.	Price
A708-28	28V Halogen Lamp (50 Watt)	11-00023	---
A750	Flasher Assembly	11-00024	---

PARTS FOR ROTATING BEACON

Rotating Beacon Replacement- The round mechanical rotating beacon was used on the vertical fin of all Barons from 1961 thru 1969. Models using this light are 95-55 (1961), A55 (1968-1969). Note: The B55 Baron continued to use this beacon until production stopped in 1982.

Model No.	Description	Part No.	Price
WRM-10	Lexan Dome	11-03257	---
WRM-30	Gasket	11-04273	---

MISCELLANEOUS HARDWARE

Model No.	Description	Part No.	Price
GLJ-111	Lamp Assembly	11-03812	---

INTERIOR LIGHTING

Model No.	Description	Part No.	Price
A300-14	14V Map Light Assembly	11-03673	---
A300-28	28V Map Light Assembly	11-03674	---
A315HIR2	28V Cockpit Utility Light - Red	11-03678	---
A315-LO-B-14	14V Cockpit Utility Light	11-03679	---
A325-ML-14	14V Reading Light Assembly	11-03294	---
A325-ML-28	28V Reading Light Assembly	11-03682	---
*A350-14	14V Post Light Assembly	11-03205	---
*A350-28	28V Post Light Assembly	11-03210	---
70339-1	Floodlight Assembly (14V)	70339-1	---
70339-02	Floodlight Assembly (28V)	70339-02	---
70339-03	Floodlight Assembly (14V Switch)	70339-03	---
70339-04	Floodlight Assembly (28V Switch)	70339-04	---
70348-00	Post Light (28V 10-32Thread) (IW)	70348-00	---
70348-01	Post Light (28V 10-32Thread) (RD)	70339-01	---

RECOGNITION LIGHT & LANDING LIGHT

Model No.	Description	Part No.	Price
A775-28	28V Recognition Light 35 Watt	11-03742	---
A777	Lens for A775-EXP	11-03649	---
70346-00	Recognition Light (14V No Lens)	70346-00	---
70346-01	Recognition Light (28V No Lens)	70346-01	---
70346-03	Recognition Light (28V Clear Lens)	70346-03	---
70346-04	Recognition Light (14V Optic Lens)	70346-04	---
70346-05	Recognition Light (28V Optic Lens)	70346-05	---
01-0790095-02	Fixed Landing Light (PAR 46)	01-070095-02	---
38-0240063-00	Sealed Beam Gasket (PAR 46)	11-05103	---
38-0240197-01	Sealed Beam Gasket (PAR 36)	38-0240197-01	---
19-270407-000	Clamp Ring (PAR 46)	19-270407-000	---
19-250147-000	Clamp Ring (PAR 36)	19-250147-00	---

PARTS FOR POST LIGHTS

Model No.	Description	Part No.	Price
*A354	Head Assembly	CALL	---
*A358	Base Assembly	CALL	---

*** Requires dash numbers for lens color and finish. Please contact factory.**

For complete information contact factory.

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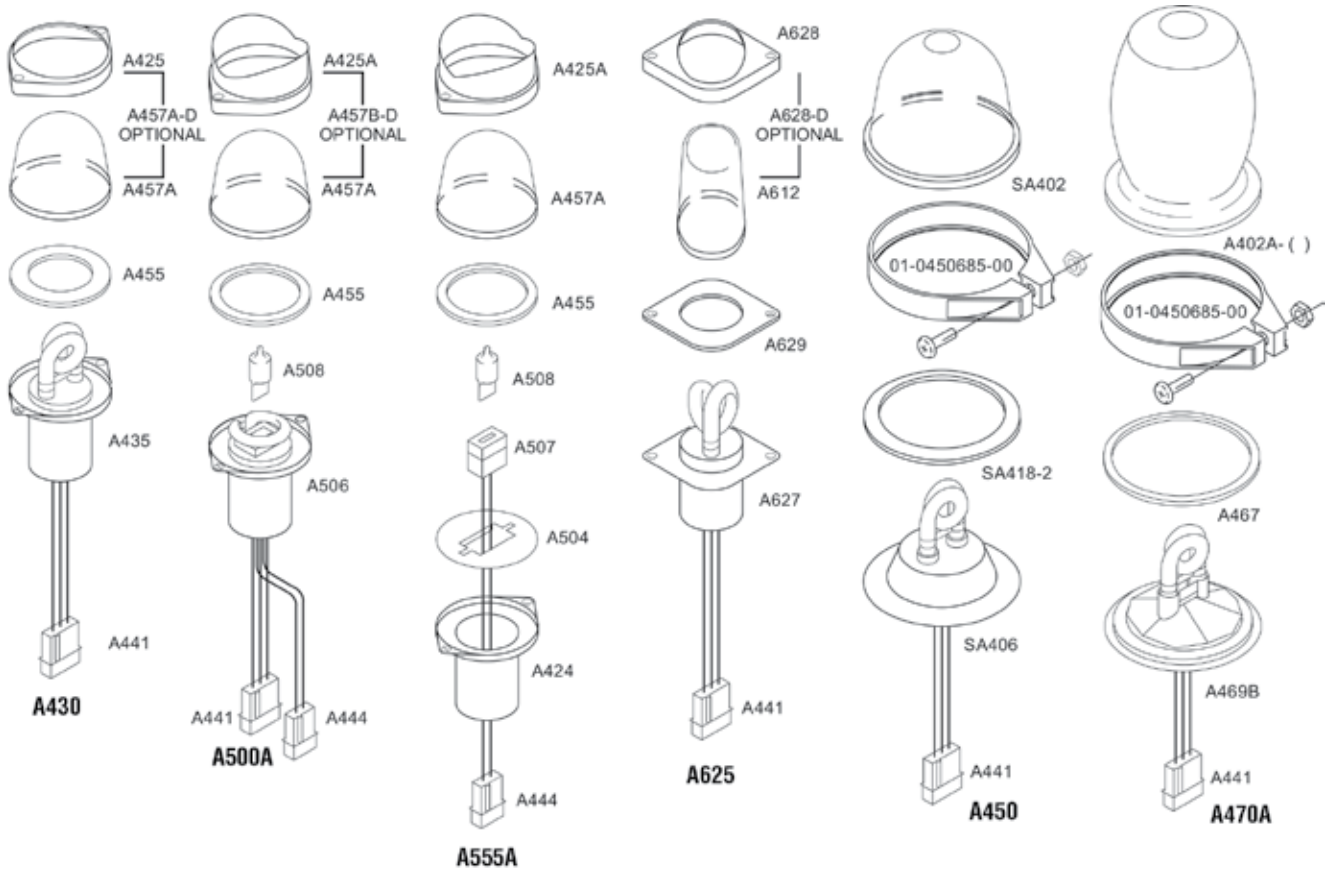
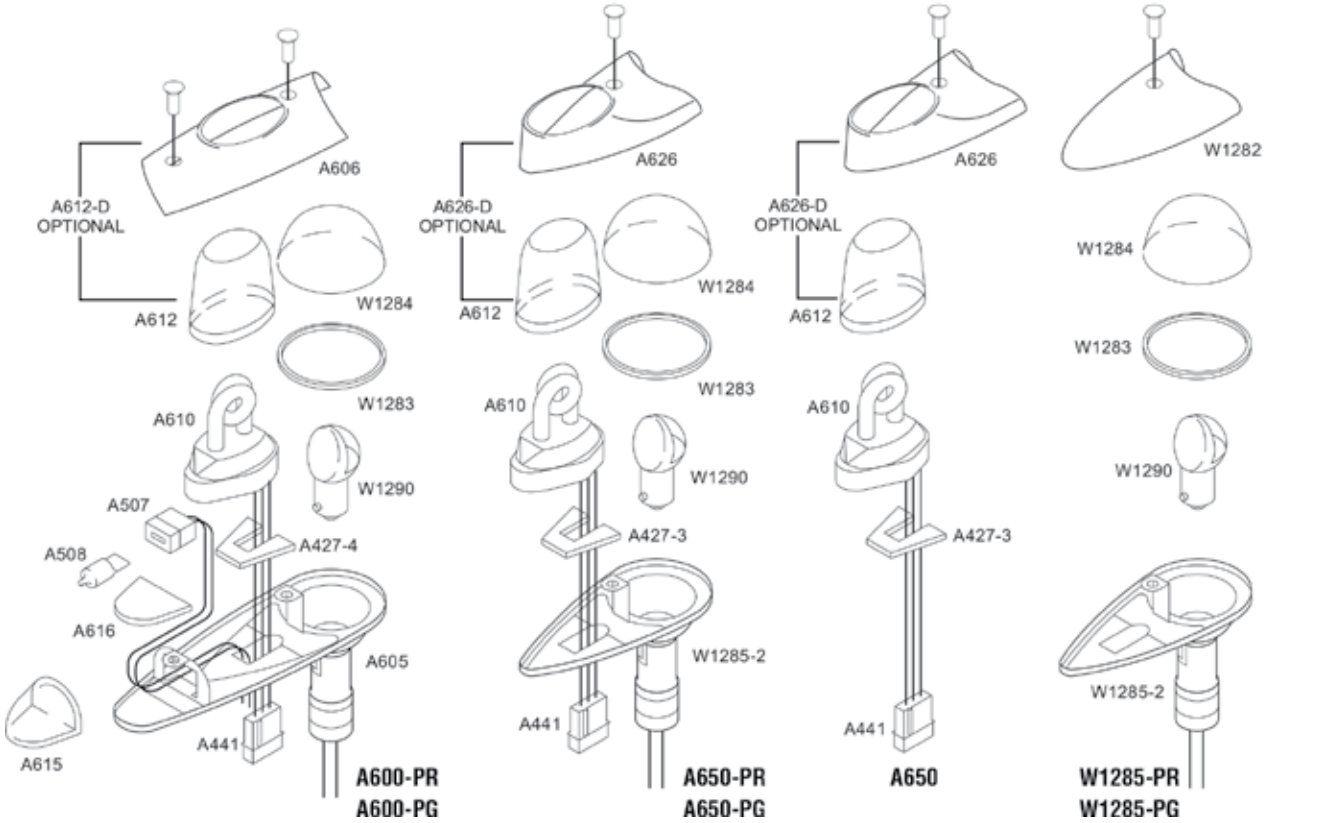
WHELEN STROBE LIGHTS





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Please view our website for current prices.

VOLT AND VAC ALERT

• Provides an instantly recognizable voice warning directly in your headset if low vacuum (or pressure) or low voltage develops • Includes a red warning light mounted close to the gyro instruments. Many aircraft are equipped with backup vacuum systems, however you must first know that your instrument power system has failed before any of these backup systems are engaged. You must "know you have a problem before you have a problem". Volt & Vac Alert consists of a small electronic unit that can be mounted anywhere in the aircraft. It connects to aircraft voltage, instrument power (vacuum or pressure), and the aircraft audio system. If the voltage falls below 12v or 24v the voice message "CHECK VOLTAGE CHECK VOLTAGE" will be heard. Should the gyro power fail, the pilot will hear the voice message "CHECK GYROS, CHECK GYROS" directly in his headset. The voice message will sound once, and then the red warning light will illuminate until the problem is fixed. The unit can be used in 12v or 24v aircraft with either vacuum or pressure gyro power systems. It can be installed in pressurized or un-pressurized aircraft. Sold as a complete assembly with everything necessary for the installation except a 1 amp fuse or circuit breaker. STC'd for most general aviation aircraft

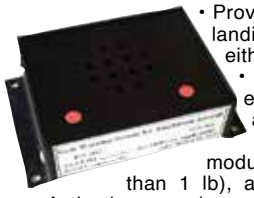
P/N 10-00393 ..... ---

VOICE ALERT

Whenever the existing stall horn sounds, the pilot will hear the instantly recognizable voice message "STALL, STALL" from the built in speaker, and directly in his headset. If the gear warning horn sounds, the pilot will hear the voice message "CHECK LANDING GEAR, CHECK LANDING GEAR" alerting of the problem. No more confusion over which horn is sounding. These voice messages are in addition to the original horn sounds. The Voice Alert consists of a small electronic unit about 2-1/2" by 3-1/2" in size that can be mounted almost anywhere in the cockpit. Installed weight is less than 1 lb. Supplied as a complete kit consisting of the electronic unit, a pre-wired cable assembly, and all the connecters and mounting hardware. Requires is a 1 amp fuse or circuit breaker. Installation can be performed by an A&P mechanic or an avionics shop. The system is approved for both fixed and retractable gear aircraft.

Description	Part No.	Price
VOICE ALERT 2040-1-1 produces voice messages for gear and stall warnings, and can be programmed with up to 8 additional warning voices such as altitude, vacuum, fuel, pressures, etc. Supplemental system only.	10-03713	---
VOICE ALERT 2040-1-2 produces stall and gear voice messages in the pilot's headset. Supplemental system only.	10-00394	---
VOICE ALERT 2040-1-1P similar to the 2040-1-1 except approved for installation as primary replacement for existing warning units like Cessna Electronic Dual Warning units	10-03714	---
VOICE ALERT 2040-1-2P similar to the 2040-1-2 except approved for installation as primary replacement for existing warning units like Cessna Electronic Dual Warning units	10-03715	---
VOICE ALERT 2040-1-1 Custom Voice settings produces voice messages for gear and stall warnings, and can be programmed with up to 8 additional warning voices such as altitude, vacuum, fuel pressures, etc. Supplemental system only.	10-04964	---

GEAR WARNING SYSTEM (2048)



• Provides both voice and visual warning if the landing gear is not in the correct position for either a runway landing or a water landing • Airspeed activated, activation speed is easily set from 45 to 90 mph • Works with aircraft having 2, 4, or 8 gear indicating lights. Consists of a small electronic module (2.5 inch by 3.25 inch weighing less than 1 lb), and a panel mounted switch with light. Activation speed can be easily set using a screwdriver. Time delay is built in to prevent false triggering due to speed fluctuations. Pilot can perform a self test of the system. Can place in a disengage mode which temporarily disengages the system for slow flight. If the aircraft has flaps, a flap switch can be added to cause the landing sequence to be initiated whenever the flaps are fully extended. The unit also includes an airspeed activated switch which closes whenever the airspeed is above 45 mph. This can be used to activate a transponder, Hobbs meter etc. Expermental aircraft.

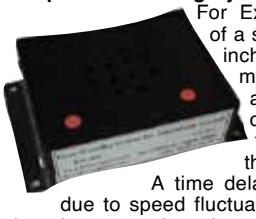
P/N 11-02258 ..... ---

AMPHIBIAN GEAR WARNING SYSTEM

Designed to provide an additional margin of safety for amphibian pilots by providing a backup electronic means of verifying landing gear position for both water and runway landings. Consists of a small electronic box (about 2.5 inch by 3.25 inch weighing less than 1 lb) that can be mounted anywhere in the aircraft, and 2 panel mounted switches with lights. The system is activated by airspeed. The activation speed can be set by a simple screwdriver adjustment. On takeoff, as the airspeed exceeds the activation speed, the system becomes active. There is a time delay built in to prevent false triggering. When the system becomes active, the lights in the panel switches will illuminate for 6 sec, to alert the pilot that the system is active. The pilot can perform a self test. Can be temporarily disengaged for slow flight. As the aircraft slows below the activation speed for a landing, the landing sequence is initiated. Panel switches are marked "L" for land, and "W" for water. If the gear is in the correct position, the voice message "GEAR O.K." will be heard. If the gear is not in the proper position, the voice message "CHECK LANDING GEAR, CHECK LANDING GEAR" will be heard. This message will continue until the speed is increased above the activation speed, or the gear is placed in the proper position. When installed in aircraft having multiple gear indicating lights, the system will respond with the "CHECK LANDING GEAR" voice warning if it determines that any of the wheels are in the wrong position. Also responds with the warning if the gear indicating lights loose power. Also incorporates an airspeed activated electronic switch which closes whenever the airspeed is above 45 mph. This can be used to activate a transponder, Hobbs meter etc. Supplied as a complete kit consisting of the electronic module, a pre-wired, color coded cable, switches, connecters, mounting hardware etc. The only other item required is a 1 amp fuse or breaker. STC'd for many amphibian aircraft and aircraft on amphibian floats .....P/N 11-07537 ..... ---

GEAR ALERT SYSTEM 2050

Note: This system is not FAA approved. It is intended for installation in Experimental category aircraft only.



For Experimental amphibian aircraft consists of a small electronic module (2.5 inch by 3.25 inch weighing less than 1 lb), and a panel mounted switch with light. The system is airspeed activated. The activation speed can be easily set using a screwdriver. On takeoff, once the speed has exceeded the activation speed, the system activates. A time delay is built in to prevent false triggering due to speed fluctuations. The light in the switch illuminates when the system is activated. The pilot can perform a self test of the system.Disengage mode which temporarily disengages the system for slow flight. During this period, the light in the switch flashes indicating the system is disengaged. Pushing the switch again re-engages the system. As the aircraft slows for landing, the system enters the landing mode. The light turns off, and the electronics then checks the gear position lights to determine the gear position. If the aircraft has flaps, a flap switch can be added to cause the landing sequence to be initiated whenever the flaps are fully extended. A switch can be added to the throttle so that closing the throttle with the gear up will cause the warning voice message to be heard. The unit also includes an airspeed activated switch which closes whenever the airspeed is above 45 mph. This can be used to activate a transponder, Hobbs meter etc. The unit is sold as a complete system including the electronic unit, a pre-made cable assembly, a pre-wired switch, connecters, mounting hardware etc. ..... P/N 11-07538.....---

POWER GUARD BUS MANAGEMENT SYSTEM

An essential bus management circuit designed to protect power sensitive and critical electronics. Starting currents are usually high enough to cause battery voltage to drop below tolerable limits for many electronics systems. The result could leave you without engine instrumentation until EFIS "reboots" (up to 30 seconds). Protection includes low voltage drop out and essential backup in the event of primary power loss. Filtration on the secondary supply and secondary battery charging are also an integral parts of the circuit. A secondary battery is required for the Power Guage we recommend a 5-12 Amp battery for emergency supply. Several control modes are possible with the system allowing for installation and operational flexibility. Load Ratings: 7A continuous, 10A 10% duty.

Dims: 4.75"l x 2.75"w x 1.2"h .....P/N 11-02044 ..... ---

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INTERCOM GEAR WARNING DEVICE

A small electronic device that can be connected to either the landing gear throttle warning switch or the Flap UP Light or Switch and the Landing Gear Down Light or Switch. The pilots headphones are connected to the audio circuit in the IGWD II and should an unsafe condition occur, a loud pulsing tone is heard in the pilots headphones. In the single input mode, Throttle gear safety switch, if the throttle is reduced and the gear is Up, the IGWD II will sound. The two input mode with the flap UP light and the landing gear down light connected to the sensing inputs, provide added safety by ensuring that the landing gear is down before the flaps are lowered. Should the flap UP light go out before the landing gear Down light is on, the warning tone will be enabled. In addition to the warning tone, a warning light output is available for a panel mounted light as well as a Test Switch input.
Features: • Small size: 3.2"L x 2.3"W x 1.0"H • Adjustable Tone Level • Input triggering for Throttle switch or Landing Gear and Flap Lights or Switches • Remote Test Switch Option • Remote Warning Light • DC voltage range 12 to 28 VDC • Weight, 10 oz • Two Year Warranty • Not Approved for Certified Aircraft.....P/N 11-01943 ..... ---

LOW VOLTAGE WARNING SYSTEMS

An amber light will come on at the moment of low voltage condition which will inform the pilot of attention needed to the alternator, generator, or voltage regulator. Any of these conditions allowed to continue will result in a weak or completely discharged battery condition and loss of radio and electrical equipment. Indicator light features a built in dimmer and press to test with amber lens. Lights will trigger at 13 volts for 14V systems and 25 volts for 28V system. Accuracy, plus or minus 0.2 volts. Size: 1/2" Dia. 3" Depth required behind panel. Weight: .2 lbs., Power: less than 1/10 amp. Fuse supplied with kit. Made in the USA

Model No.	Description	Part No.	Price
33-2013A	14 Volt, Red Lens Low Voltage Warning System	10-02572	---
33-2013	14 Volt, Amber Lens with Dimmer Low Voltage Warning System	33-2013	---
33-2025A	28 Volt, Red Lens Low Voltage Warning System	10-02573	---
33-2025	28 Volt, Amber Lens with Dimmer Low Voltage Warning System	33-2025	---

B&C HIGH/LOW VOLTAGE WARNING INDICATOR

The BC207 is a solid-state high/low voltage sensor which mounts behind the instrument panel, and provides a visual indication of abnormal bus voltage via an included panel-mounted warning light. When flashing, this light indicates bus voltage greater than 15.5 volts D.C. (or 31.0 volts D.C.); when steady, it indicates bus voltage below 12.5 volts D.C. (or 25.0 volts D.C.). **Weight**: 4.5 oz. Select the appropriate sensor below according to battery voltage.
BC207-1 OV/LV Sensor (14 volt).....P/N 07-06830 ..... ---
BC207-2 OV/LV Sensor (28 volt).....P/N 07-03435 ..... ---

FLIGHT STROBE FS 4400

This precision compact unit mounts easily on top or below fuselage, and directly replaces rotating beacons. It features a high-intensity Xenon arc lamp, a high-efficiency push pull inverter circuit for stable flash voltage and a flame-resistant military circuit board assembly. The lamp is readily replaceable without removing the unit from the aircraft, and the unit weighs only 1 lb. 4 oz. The Flight Strobe FS-4400 is visible for over 50 miles at night, in haze, smog or bright sunlight and is manufactured using the highest quality components for maximum reliability and service life. Amp draw 3 Amp. (14V) & 1.5 Amp (28V). STC'D for Cessna 180. FAA form 337 for field approval is required for installation of other certified aircraft. Order adapter separately.
14V (FS-4400-14V) .....P/N 11-01018 ..... ---
28V (FS-4400-28V) .....P/N 11-01019 ..... ---
FS-4400 Adapter .....P/N 11-06500 ..... ---
FS-227 Repl. Bulb 14V/28V .....P/N 11-06510 ..... ---
FS-210C Clear Lens.....P/N 11-01024 ..... ---
FS-210C/R2 (1/2 Clear-1/2 Red) .....P/N 11-01026 ..... ---
FS-210R Red Lens.....P/N 11-01021 ..... ---
Fuse for FS-4400 .....P/N 11-02027 ..... ---

DIGITAL VOLTAGE MONITOR

Helps pilots monitor critical electrical system. STC approved. Features a Multi Color LED display, which is easily viewable from a wide angle. In the event of an alternator/generator failure, the LED display indicates the reserve battery capacity. The display automatically adjusts to the ambient light for IFR or night operation and also serves as a reminder to turn off the electrical system after flight. Comes in either 12V or 24V models and includes all necessary hardware and FAA Documents. The display must be set to Dot mode for FAA approved installations.

12 Volt Digital Voltmeter.....P/N 10-00752 ..... ---
24 Volt Digital Voltmeter.....P/N 10-00753 ..... ---

ELECTRONIC POSITION LIGHTS LED FOR WINGTIPS

The EPL is made of a high-optic, scratch resistant plastic module. The entire control element is integrated into the ACL module where the ACL's dimensions determine the required space.
The EPL has a brilliant green and red light with modulated beacon impulse for better perception. It has a defined angle of light of 110° in compliance with the regulations of general aviation.
The wingtip lights are prewired to allow easy connection to a 2-lead cable of minimum 0.4 mm² cross section. Flanges allow simple fixture. In addition, it can be affixed to the fuselage or rudders by means of a silicone adhesive. An instructions manual and the shrink tubing required for the assembly are included in the EPL package. Note: The set contains 2 EPLs for an airplane (NON-TSO'd). One each for the right and left wing to be mounted at the wing tips. The illumination angle is equivalent to the required angle of 110 deg. as prescribed for general aviation.
Specifications: • Color: Red and green • Operating voltage: 10 -17 volts D. C., typically: 12.8 - 13.4 volts (on board power supply) • Wattage: Each EPL approx. 4,5 watts • Dimensions: 93 x 40 x 28 mm (L x B x H) • Weight: Aprox. 78 g incl. connecting cables • Warranty: 5,000 operating hours or max. 3 years.....P/N 11-18248 ..... ---

NAV LIGHT (TIP & TAIL) AND STROBE COMBO

EPTA-NG - Electronic Position and Tail Light with Anti-Collision Light for NON-TSO'ed aircraft.
With FLARM-Interface and integrated Intelligent Synchronization - exceeds the requirements of FAR 23.
Combination of Position Light, Tail Light and Anti Collision Light with FLARM-Interface.
A systematic further developed feature for our well proven EPTA-LSA is the additional serial FLARM-Interface. The result is the EPTA-NG (NextGeneration). In the event of an aircraft on a potential colliding course a connected PowerFLARM unit accelerates the flashing sequence of the EPTA-NG according to the FLARM alert level. This makes your aircraft more conspicuous and therefore helps to increase the safety in the airspace.
The new LED technology allows an incredibly glaring red and green position light with approx. only 10% of the input power consumption compared with conventional lights. The casing in high optical plastic makes the EPTA absolutely insensitive to vibrations, water, dust and other environmental influences.
The efficiency of the output is much higher than that of incandescent light bulbs. The heat loss of the EPTA is very low and monitored by the integrated heat controller. Nevertheless the lights need fresh airflow so installations preventing this are to avoid. In case the lights are to be mounted behind an acrylic glass panel be aware of the green house effect and ensure a sufficient airflow at all times.... P/N 11-20261 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

LED BASED LIGHTS

8000 SERIES (LED) ANTI-COLLISION BEACON

LED based self-contained, High Impact Polycarbonate Optical Lens. Lighter, Brither, Cooler Longer Life (up-to 50,000 hrs.) and draws less than 1 amp. (.13 amps) @ 12vdc. Weighing in at 3.5oz. it stands 3" high and 2.5" in diameter. .....
Red 12v .....P/N 11-07241 ..... ---
Red 24v .....P/N 11-18421 ..... ---
Clear 12v .....P/N 11-07246 ..... ---
Clear 24v .....P/N 11-18426 ..... ---

MODEL 918TL (LED) TAIL LIGHT TL918 TAIL LIGHT

LED based Tail Light that weighs only 1.5oz. High Impact Polycarbonate Optical Lens. Up-to (50,000 hrs.) life. Draws .13 amps @12vdc. It measures approximately 1.6" high and 1.4" diameter.
P/N 11-07242 ..... ---

MODEL 927ACB (LED) ANTI-COLLISION BEACON

Completely Self-Contained LED Based Anti-Collision Beacon 927ACB - RED High impact poly-carbonate optical lens. Up-to (50,000 hr.) life. Draws .14 amps@12vdc. It measures approximately 1.6" high and 1.4" diameter. That's right, it is in the same package as the Tail Light! Lighter, Brighter and Cooler, and weighs only 1.6 oz. Flasher included.
Red 12V.....P/N 11-07243 ..... ---
Clear 12V.....P/N 11-07244 ..... ---
Red 24V.....P/N 11-14889 ..... ---
Clear 24V.....P/N 11-14890 ..... ---

REPLACEMENT LAMPS FOR NAVIGATION LIGHTS

Upgrade your Indicating, Position, or Recognition lights to LED's. These lamps fit standard S.C. Bayonet Indexed Base Sockets (Bay15S). Converts common Incandescent Lamps to LED Lighting without modifications. (Use a new clear plastic lens for maximum brightness) and you are ready to go. They last longer, run cooler, and draw less than .15amps. Non-PMA.

Description	Part No.	Price
LED75 12V Red Lamp	11-07744	---
LED75 12V Green Lamp	11-07745	---
LED75 24V Red Lamp	11-07746	---
LED75 24V Green Lamp	11-07747	---
LED75 TPL-12 Tail Position Lamp	11-07748	---
LED75 TPL-24V Tail Position Lamp	11-07749	---
Combination Tail and Beacon Lamp 12V	11-12042	---
Combination Tail and Beacon Lamp 24V	11-12043	---
Replacement Lamp Only 12V	11-12040	---
Replacement Lamp Only 24V	11-12041	---

LED REPLACEMENT NAV LIGHT BULBS

LED retro-fit for older Grimes navigation lights. Glass-covered, protected dome. Models: 1156, 1157 and 1076.

Model No.	Volts Amps/ Watts	Description	Part No.	Price
1156 (BA15S)	10 to 30VDC	3 Watt - Super Bright	13-15810	---
1157 (BAY15D)	12-14VDC	3 Watt - Super Bright One Lighting. Mode for Indicator Light. Dual Lighting Mode for Brake Light	13-17741	---
1076 (BA15D)	10 to 30VDC	3 Watt - Super Bright	13-17742	---

2 COLOR PANEL POST LIGHT

Panel Post Light. Compact design. White and Red leds powered separately. 12V or 24V versions. Ideal for instrument and panel lighting.
12V .....P/N 11-18503 ..... ---
24V .....P/N 11-18502 ..... ---

WHELEN WING LIGHTS

W1285 series are the same design as Grimes Model E. Available with red or green lens and 12V or 24V bulb. W1250 PG/PR are FAA approved position lights and are designed to fit underneath the wing tip fairings.

W1250		
14V Red W1250 Assembly	11-12473	---
Replacement Bulbs		
14V W1290 Bulbs	11-02602	---
28V W1290 Bulbs	11-02604	---

GRIMES A2430 MODEL WING LIGHTS

Grimes Model B. Early type wing light with flat mounting pad. Mounts on tip of the wing. **Note**: Does not include contact assembly
Specifications: • Weight: 7 oz. • #93 Blub New Surplus
Green, 14V (A-2430-1-G).....P/N 11-03669 ..... ---
Red, 14V (A-2430-1-R) .....P/N 11-03670 ..... ---

STEEL FORMED NAVIGATION LIGHT PLATES

Wing tip light plate is welded or screwed to wing tip bows to attach teardrop type position lights. Tail light plate is welded to rudder to attach Model S tail light. Units are steel without any coatings as they need to be welded. Surface rust may be present as a result.
Model E Wing Light Plate
P/N 11-06900 ..... ---
Model S Tail Light Plate
P/N 11-07000 ..... ---

"C-LITE" WING TIP NAV LIGHT INDICATORS

These indicators identify your wingtips when taxiing at night, and assure your nav lights are working. Installs in minutes with just a screw-driver, and you don't disconnect the lights to do it. Works with high-or-low-wing aircraft, thick wing too. Designed for use with Grimes #A-1285 & #B-6345 nac lights, which means practically all aircraft.....P/N 5122 ..... ---

GRIMES TAIL LIGHTS

GRIMES MODEL S

For tailcone or rudder installation. Wt. 3 oz. Single contact. 15 Candlepower. For 12V use, order #93 bulb (P/N 11-04199)
P/N 11-03652 ..... ---

GRIMES EARLY MODEL C

Mounts on trailing edge of rudder. Wt. 5 oz. Double contact. 15 Candlepower. For 12V use, order #94 bulb (P/N 11-04200)
Model B-1943-4 (New Surplus).....P/N 11-07200 ..... ---

REPLACEMENT PARTS FOR POSITION LIGHTS

Lenses for Grimes A, B, C Wing or Tail Lights
Clear.....P/N 11-03662..... --- Red.....P/N 11-03655..... ---
Green.....P/N 11-03663..... ---

Lenses for Grimes Model E or Whelen Wing Tip Lights
Red.....P/N 11-02754..... --- Green....P/N 11-02755..... ---
Lens for Model S Tail Light (Clear) .....P/N 11-07400 ..... ---
Bale Wire - Grimes.....P/N 11-03664 ..... ---

T1284PC CLEAR LENS

T1284PC-Clear, polycarbonate lens high impact polycarbonate optical lens, for use with new LED lights. Direct replacement for your standard red, green and clear glass navigation lens. Use with standard 1283 nav lens gasket.
P/N 11-09299 ..... ---

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AVEO ULTRA EMBEDDED GALACTICA

Popular choice for certified and general aviation aircraft of any size, due to their compact design and easy installation. With full optical testing for brightness and chromacity, the Ultra also completed the rigorous DO-160F testing regime exceeding all requirements. The leading winglight solution for numerous military and law enforcement/surveillance UAVs around the world and is very popular with aircraft manufacturers. Ultra wing lights are virtually unbreakable. Aircraft lifetime warranty. Packed with 27 ultra high brightness LEDs that are the industry state-of-the-art in performance and output lumens, the Ultras still feature the same tiny footprint the popular Aveo e-series wing lights have become so well-known for in the aviation world.
These aircraft lights meet both TSO C30c and C96a design specifications and EXCEED the requirements of TSO C30c, C96a, SAE AS 8037 and AS8017A, plus DO-160.
Features: • Position / Strobe LED light • Extremely Lightweight at 83 grams • 9-32 volt DC input range • No External Power Supply or Strobe Unit • Light Synchronization Feature • Unbreakable Diamidium™ encapsulation • Unmatched Circuit Technology • Advanced Computer and Goniophotometer Engineered Optics • Limited Warranty - Product must be registered within 30 days of purchase Here

P/N 05-08364 ..... ---

AVEO NITELITE

Compatible with the Aveo StarFob™ remote control system, this light provides dual functions, a blue light for illumination of the ground around your aircraft nose and a white light for the wing leading edge illumination, which also double as an ice light.
The conditions and tests required for TSO approval of this article are minimum performance standards. Those installing this article either on or within a specific type or class of aircraft must determine that the aircraft installation conditions are within TSO Standards which include any accepted integrated non-TSO function standards. TSO articles and any accepted integrated non-TSO function(s) must have separate approval for installation on an aircraft. The article may be installed only according to 14 CFR Part 43 or the applicable airworthiness requirements.
28 Volt Left .....P/N 11-12855 ..... ---
28 Volt Right .....P/N 11-12856 ..... ---

AVEO ULTRA EMBEDDED DAYLITE™ WINGTIP 2-IN-1 LED LIGHTS NAVIGATION / STROBE

The Ultra Embedded Daylite™ is only 34 millimeters in height (1.34 inches), but does not sacrifice performance or standards. With exclusive advanced optics and chrome reflector system, unmatched power and led management circuity, and the lowest-drag profile in the industry. The Ultra Embedded Daylite™ gives unmatched power and features, while being lower, narrower, shorter, and lighter than the competition. For Experimental Use Only.
Features: • Navigation/Strobe LED Light
• Lower, narrow, and shorter than other industry lights • Lightweight at 127 grams • 9-36 volt DC input range • Unmatched circuit technology • Limited Warranty - Product must be registered within 30 days of purchase.....P/N 11-15068 ..... ---

AVEO EXCELERON DAYLITE LANDING / TAXI LED LIGHT

The new Exceleron DayLite™ is a value light that does not sacrifice anything in performance or standards as other economy-priced lights offered by the competition. Our exclusive and highly advanced optics, our unmatched power and led management circuitry are all combined into a product that gives you unmatched POWER and FEATURES. Lower, narrower and shorter PLUS much lighter than industry lights in this category!
9° .....P/N 05-27099 ..... ---
12° .....P/N 05-27100 ..... ---
9x10.5° .....P/N 05-27101 ..... ---
9x10° .....P/N 05-27102 ..... ---

AVEO POWERBURST DAYLIGHT SET

At only 26 millimeters in height (1.024 inch) the PowerBurst™ DayLite is a value wingtip 3-in-1 LED light – Navigation / Position / Strobe that does not sacrifice anything in performance or standards as other economy-priced lights. The exclusive and highly advanced optics and chrome reflector system, unmatched power and LED management circuitry, and Aveo's famous lowest-drag profile in the industry are all combined into a product that gives you unmatched POWER and **Features**. Lower, narrower and shorter PLUS much lighter than industry lights in this category! For Experimental Use Only. Not approved for installation on certified aircraft. This is not a TSO certified light. **Features**: • 3-in-1 Nav/Position/Strobe • Extremely lightweight • Unmatched circuit technology •Waterproof •Vibration-proof • Shock-proof • Dust-proof • Limited 3yr Warranty - Product must be registered within 30 days of purchase.
Black Base.....P/N 05-04877 ..... ---
White Base .....P/N 05-26588 ..... ---
Red/Green Base.....P/N 05-26589 ..... ---

AVEO ULTRA DAYLITE™ 3-IN-1 NAVIGATION / POSITION / STROBE LED LIGHTS

The Ultra Daylite™ is only 34 millimeters in height (1.34 inches), but does not sacrifice performance or standards. With exclusive advanced optics and chrome reflector system, unmatched power and led management circuity, and the lowest-drag profile in the industry. The Ultra Daylite™ gives unmatched power and features, while being lower, narrower, shorter, and lighter than the competition. For Experimental Use Only.
Features: • 3-in-1 Navigation/Position/Strobe • Lower, narrow, and shorter than other industry lights • Lightweight at 127 grams • 9-36 volt DC input range • Unmatched circuit technology • Limited Warranty - Product must be registered within 30 days of purchase Here

P/N 11-15067 ..... ---

AVEO MINIMAX ARIEL™ LED ANTI-COLLISION / STROBES

Developed originally at the request of the world's leading UAV manufacturers, all of which now utilize Aveo lighting, the MiniMax Ariel is a compact powerhouse of hemispheric light. It is also a great anticollision light to use on the upper and lower fuselage in combination with AveoFlash wing lights due to its incredibly small footprint.
White .....P/N 11-17558 ..... ---
Red.....P/N 11-17569 ..... ---

AVEO PICOMAX DRONE BEACON STROBES

This is Aveo's ultimate small drone strobe light, PicoMax, a cousin of its highly successful MicroMaxTM defense industry strobe for UAVs. Battery operated with DC adapter recharging, the PicoMax will strobe for longer than your drone flies on its charge. Exceeding the 2 nautical mile standard, the PicoMax actually surpasses 3 nm, and due to its proprietary Aveo firmware and circuitry it offers the brightest and fully airworthy tested features for the serious drone operator. PicoMax comes in either red or white strobe color.
Features: • Microcontroller drive • Pushbutton ON/OFF • Auto OFF when full discharge • Signal LED for battery charge status • Charge status (one blink 100%-40%, two blink 40%-20%, four blink 20%-0%) • Signal LED for charging status (ON when charging, OFF when full charge) • Micro USB Charging • Synchronization input • RF control input - for ON/OFF • External battery via US
White .....P/N 11-15171 ..... ---
Red.....P/N 11-15169 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AVEO REDBARON NXT™ - LED ANTICOLLISION LIGHT

At only 39.8 millimeters in height (1.565 inch) the new RedBaron NXT™ is a value light that does not sacrifice anything in performance or standards as do other economy – priced lights offered by the competition.

Our exclusive and highly advanced optics and chrome reflector system, our unmatched power and cob led management circuitry, and our famous lowest-drag profile in the industry are all combined into a product that gives you unmatched POWER and FEATURES. Lower, narrower and shorter PLUS much lighter in weight than industry lights in this category!

The COB LED technology incorporated into this light make it super efficient energy-wise, and will last a lot longer than traditional LED technology. It has a higher density of light output and fewer components that make it a superior product.

Red.....P/N 11-20264 ..... ---
White .....P/N 11-20600 ..... ---

AVEO DAYLITE SERIES REDBARON MINI NXT™ - LED ANTICOLLISION LIGHT

At only 33.8 millimeters in height (1.33 inch) the new RedBaron Mini NXT™ is a value light that does not sacrifice anything in performance or standards as other economy – priced lights offered by the competition. Our exclusive and highly advanced optics and chrome reflector system, our unmatched power and led management circuitry and our famous lowest-drag profile in the industry are all combined into a product that gives you unmatched POWER and FEATURES. Lower, narrower and shorter PLUS much lighter than industry lights in this category!

NOT APPROVED FOR INSTALLATION ON CERTIFIED AIRCRAFT. THIS IS NOT A TSO CERTIFIED LIGHT

Red.....P/N 11-20601 ..... ---
White .....P/N 11-20602 ..... ---

AVEO REDBARON ADAPTER

If you are replacing a Whelen anticollision light, this adapter by Aveo is designed to match up perfectly with your existing mounting site.

Adapter works for following Whelen models: • A450 • A470A • 7108001 • 7108006 • 7108051 • 7105500 • 7105501 • 9052001 • 9052051

Specifications: Universal holes (4x1.75" x 4x1.625", 4x1.25").

Color: Silver

P/N 11-10631 ..... ---

AVEO MAXX HERCULES LED LANDING / TAXI / WIGWAG LIGHT

Designed for those of you that want your plane to look like a jumbo jet in the pattern, we went to our skunk works and using our AveoMaxiChip™ technology, we built you the ultimate landing light. The Hercules™ is nonpareil in the industry as verified by test pilots at major aircraft manufacturers in night runway tests against all our competitors' lights. Again, featuring the landing, taxi, and wigwag functions, the Hercules™ is also available with TCAS activation for recognition mode.

Voltage input 9 to 32 VDC, please remove legacy strobe boxes first!

20 With Bracket .....P/N 05-06493 ..... ---
20 Without Bracket .....P/N 11-10643 ..... ---

AVEO BORG MINI™ CARGO

Aveo Borg Mini™ Cargo Step Light. Cargo / Wheel Well / Step LED light **For Experimental Use Only**

P/N 11-15179 ..... ---

AVEO EYEBEAM MINI

Aveo's incredible capacitive-sensing technology from its highly popular EyeBeam Touch™ products has now been engineered into an even smaller footprint, providing a one-color LED cabin/cockpit/area lighting product for those with limited installation space or only simple lighting needs. With one light finger touch you can control the power and the brightness scale and the light easily swivels to put the beam where you want it. No mechanical switches to fail, no bulbs to burn out. The EyeBeam Mini™ comes with a variety of easily-applied color faceplates, with standard colors of silver and black. The EyeBeam Mini™ is made from anodized aircraft grade aluminum. Cockpit and cabin lighting, especially on aircdraft, helicopters, boats, recreational vehicles and trucks are plagued by problems from vibration... the EyeBeam™ product line from AveoEngineering overcomes this with a vibration-proof product that has the exclusive Aveo lifetime warranty.

Featuring: • 9-32 volt input range • No external power supply • Swiveling light permits light beam control • Capacitive sensing touch controls • No mechanical switches to fail • Exclusive Lifetime Warranty • Unmatched circuit technology. Silver.....P/N 11-09678 ..... ---

AVEO EYEBEAM DOME

EyeBeam Dome™ - Remote Touch Control Interior LED Light The EyeBeam Dome was developed to meet the requests of an interior dome light for all aircraft, that would complement the amazing Aveo EyeBeam products, and their unique touch-controls. Long gone are the days of mechanical switches which can corrode and spark, etc. Available with a remote control finger-slide panel for intensity and operation.

Black.....P/N 11-10627 ..... ---
Silver.....P/N 11-10629 ..... ---

AVEO EYEBEAM MB™ COCKPIT & CABIN LIGHT

The Aveo EyeBeam MB™ uses a single microswitch button to control cockpit and cabin lights. This "EyeBeam Mini-sized" light features a swiveling enclosure to direct light where you need it simply and quickly. Standard aluminum colors available are anodized black or anodized silver.

Cockpit and cabin lighting, especially on aircraft, helicopters, boats, recreational vehicles and trucks are plagued by problems from vibration.... the EyeBeam MB™ overcomes this with a vibration-proof product.

Silver.....P/N 11-19336 ..... ---
Black.....P/N 11-19335 ..... ---

AVEO MICROMAXLITE ANTI-COLLISION LED LIGHT WHITE

Fully D0-160 tested and weighing less than 30 grams, MicroMax™ will help you comply with all the tightening and future regulations around operating small UAVs/MiniDrones and ensure SAFETY is included in your flight operations. Available in Red or White, the patented MicroMax™ provides a 360 degree arc of coverage. An amazing product from Aveo's famous engineering prowess, which has made it the world market leader in UAV lighting by a wide margin. Note: Not Approved for installation on Certified Aircraft. This is not a TSO Certified Light.

White .....P/N 05-26402 ..... ---
Red.....P/N 05-26403 ..... ---

AVEO ATLAS NXT LANDING / TAXI LIGHT

Atlas NXT™ is a high powered Landing and Taxi LED light used in GA and transport category aircraft. It has been designed to be lightweight and with a low power draw to meet the highest requirements of all certified aircraft.

• Landing • Taxi • WigWag Function • Hi-Lo Function • Simple installation with holder • High performance.

P/N 11-20434 ..... ---

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AVEO EYE BEAM TOUCH NVG

The popular Aveo EyeBeam Touch™ capacitive sensing controlled cockpit and cabin lights are now available in NVG configuration, that is they include green LED lighting compatible with night vision equipment. Also included with the NVG model EyeBeam is the standard selection faceplate locations of white, red and blue LEDs too, so whatever your operational conditions there is a lighting option to match it available from this amazing product. With one light finger touch you can control power, white LED, red LED, green LED, blue LED or the brightness slider scale easily with no mechanical switches to fail and no bulbs to burn out. The EyeBeam NVG™ also features as standard in its firmware automatic light dimming to OFF and automatic ON for the light when coupled to a door microswitch sensor. With a standard 2 minute delay programmed in. The EyeBeam overcomes this with a vibration-proof product that has the exclusive Aveo lifetime warranty. Features: 9-32 volt input range, No external power supply, Swiveling light permits light beam control, Capacitive sensing touch controls, No mechanical switches to fail, Limited 3 year warranty, Unmatched circuit technology. Specifications: Power supply: 9-32 Volts, Current consumption: 110 mA @ 12 Volts, Capacitive Sensing Interface with LED backlighting, 9 Incremental steps capacitive sensing slide bar for brightness adjust, Swiveling Beam, 2024 Anodized Aluminum Construction

Description	Part No.	Price
Silver Eye Beam Touch NVG	11-08444	---
Black Eye Beam Touch NVG	11-08445	---
Accessories		
Description	**Part No.**	**Price**
Silver Faceplate	11-08429	---
Black Faceplate	11-08428	---

AVEO POSISTROBE TITANIA WHITE LED POSITION / STROBE LIGHT

The PosiStrobe CP™ is a generation rudder white position and strobe light. It fits almost all the standard rudder mounts of aircraft and also features an optional aluminum adapter mount plate pictured in the installation page. An extremely lightweight, aerodynamic and low-profile design make this the light of choice for any certified aircraft requiring a rear coverage light due to wingtip light coverage zone limits.

P/N 11-17599 ..... ---

AVEO 2-IN-1 EMI / OVER-VOLTAGE SPIKE-D MODULE

Spike-D can be use with lights: Ultra Galactica, Ultra Embedded Galactica, Ultra Aurora, Ultra Embedded Aurora, LSA, Andromeda. PowerBurst, Power-Burst Plues, Gliderburst. PosiStrobe CP Aurora, PosiStrobe CP Galactica, PosiStrobe XP, MiniMax. RedBaron XP Aurora, RedBaron XP Galactica, RedBaron Maxi, RedBaron Mini, RedBaron MaxiMini (NOT HISL!!). R2D2. AveoMaxx. Vega TL, Vega TLR, Vega Helo. All EyeBeam series. For Experimental Aircraft.

P/N 11-14460 ..... ---

AVEO 2-IN-1 EMI / OVERVOLTAGE SUPER SPIKE-SD MODULE

Hercules Drop-In, 9-18VDC has one input and can not be use with Spike-SD, current consumption is 12.6A at 9VDC, what more than 8A per channel. Samson Drop-In has one input and can not be use with Spike -SD, current consumption is 11.1A at 18VDC, what more than 8A per channel. For Experimental Aircraft.

P/N 11-14461 ..... ---

AVEO HERCULES NXT LANDING / TAXI / WIGWAG LIGHT NON TSO

Hercules NXT™ is a high powered Landing and Taxi LED light used in GA and transport category aircraft. It has been designed to be lightweight and with a low power draw to meet the highest requirements of all certified aircraft.

- Landing
- Taxi
- WigWag Function
- Hi-Lo Function
- Simple installation with holder
- High performance
- PAR 36

Description	Part No.	Price
Standard	05-27529	---
O Holder	05-27530	---
Q Holder	05-27531	---

AVEO SAMSON JP TAXI / LANDING LIGHT

Aveo Samson JP landing and taxi lights combine high intensity and affordability. Choose from 6 anodized finishes to enhance your paint scheme. Available with either landing or taxi lenses, optimized for superior illumination.
Simple installation -- "Drop In" upgrade for legacy lights. High performance. PAR 46

Taxi Lights		
Description	**Part Number**	**Price**
Aveo Samson JP Taxi Silver	11-18213	---
Aveo Samson JP Taxi Red	11-18219	---
Aveo Samson JP Taxi Purple	11-18223	---
Aveo Samson JP Taxi Blue	11-18221	---
Aveo Samson JP Taxi Black	11-18215	---
Aveo Samson JP Taxi Green	11-18217	---
Aveo Samson JP Landing Silver	11-18214	---
Aveo Samson JP Landing Red	11-18220	---
Aveo Samson JP Landing Purple	11-18224	---
Aveo Samson JP Landing Blue	11-18222	---
Aveo Samson JP Landing Black	11-18216	---
Aveo Samson JP Landing Green	11-18218	---

AVEO HERCULES JP TAXI / LANDING LIGHT

Aveo Hercules JP landing and taxi lights combine high intensity and affordability. Choose from 6 anodized finishes to enhance your paint scheme. Available with either landing or taxi lenses, optimized for superior illumination.
Simple installation -- "Drop In" upgrade for legacy lights. High performance. PAR 36

Description	Part Number	Price
Aveo Hercules JP Taxi Red	11-18207	---
Aveo Hercules JP Taxi Purple	11-18211	---
Aveo Hercules JP Taxi Blue	11-18209	---
Aveo Hercules JP Taxi Black	11-18203	---
Aveo Hercules JP Taxi Green	11-18205	---
Aveo Hercules JP Landing Silver	11-18202	---
Aveo Hercules JP Landing Red	11-18208	---
Aveo Hercules JP Landing Purple	11-18212	---
Aveo Hercules JP Landing Blue	11-18210	---
Aveo Hercules JP Landing Black	11-18204	---
Aveo Hercules JP Landing Green	11-18206	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

NAVSTROBE LIGHTING

NAVSTROBE SEXTANT AIRCRAFT NAVIGATION SYSTEM WITH CONSTANT & FAST STROBES 45W

These are standard parts and certified to be FAA/TCCA TSO-C30c Approved.
Combination navigation and strobe lights for your aircraft.
Emitter Types: Cree LED's
Operation: Turn on first; Constant lighting / Turn on second time; <3s: Fast Strobe. Switch between modes in fog/cloud etc. The reset mode sets them back to constant on by removing the power for ~> 30 seconds. Handy after fuel up to start again in steady on mode. .....P/N 11-18888 ..... ---

NAVSTROBE SEXTANT KITS FOR AIRCRAFT WITH WING / TAIL MOUNTED ADS-B LIGHTS

Note: These are NavStrobe 45W sextant kits with one light missing for aircraft that have already been equipped with ADS-B lighting solutions in one of the wings or the tailfin. These are standard parts and certified to be FAA/TCCA TSO-C30c Approved. Combination navigation and strobe lights for your aircraft.

Version	Part No.	Price
For Tail ADS-B Aircraft	11-19193	---
For Left Wing ADS-B Aircraft	11-19194	---
For Right Wing ADS-B Aircraft	11-19195	---

NAVSTROBE WINGTIP RED 45 WATT

These bulbs are standard parts and are certified to be FAA TSO-C30c Approved.
Emitter Type: Green Cree LED's
Turn on first: Constant lighting / Turn on second time <3s: Fast Strobe. Switch between modes in fog/cloud etc.
Note: This product must be used in conjunction with Aircraft Wingtip Navigation Light Clear Lens Cover (Sextant A-1233A-1) to be compliant.
Red .....P/N 11-18889 ..... ---
Green.....P/N 11-18890 ..... ---

NAVSTROBE AIRCRAFT NAVIGATION SYSTEM

2 Modes: Constant & Fast Strobe.
Kit Includes: • 2ea. Wingtip combination navigation and strobe light (BAY15scs-10w-A-1512) • 1ea. White tailfin combination navigation and strobe light (BA15sWcs-10w-1156) • 2ea. Lens cover gaskets (Sextant A450) • 1ea. Dielectric grease pouch (Sextant 31880) Operation: Turn on first; Constant lighting / Turn on second time; <3s: Fast Strobe. Switch between modes in fog/cloud etc. The reset mode sets them back to constant on by removing the power for > 30 seconds. Handy after fuel up to start again in steady on mode .....P/N 11-16470 ..... ---

AIRCRAFT ANTI-COLLISION STROBE LIGHT

Aircraft Anti-Collision Strobe Light, 45w, 1350 LM CREE LEDs. Total Emitters: 9 x 5w. Power: 45W. Rated Voltage: 10-15VDC. Draws <280ma @ 14.2VDC. Luminous Flux: 1350 LM/108cdl. 1 mode: fast strobe (100ms). Base Type: 12"/30cm twin leads. Application: Aircraft Anti-Collision Strobe Light. Non-PMA'd. Contains 1 light bulb per pack. Dimensions: 2.7 in x 1.2 in (60 mm x 30 mm). Weight: 0.28 oz (8 g)
Installation: 1- Clean surfaces with alcohol. 2- Apply adhesive tape 3- Let stand for 24 hours.
White .....P/N 11-12424 ..... ---
Red.....P/N 11-12986 ..... ---
Green.....P/N 11-12985 ..... ---

NAVSTROBE TAILFIN LIGHT

These bulbs are standard parts and have been designed to meet the requirements of TSO-C30c. • Total Emitters: 6 • Power: 30W Equivalent • Color BIN: White • Rated Voltage: 10-28VDC • Draws <340ma @ 14.2VDC • Luminous Flux: 676LM (0 degrees), 666LM (90 degrees) • Color Temperature: 6000~6500K • 2 modes: constant & fast strobe • Base Type: BA15s = Single contact with inline pins. (GE1691 & 1156) • Application: Tailfin Navigation Light replacement. • Contains 1 light bulb per pack • Dimensions: 1.9 in x 0.7 in (50.5 mm x 1.6 cm) • Weight: 0.32 oz (9 g)..... P/N 11-13587 ..... ---

NAVSTROBE PAR 36 LED LANDING LIGHT

Aircraft PAR36 Landing Light, 220w, 109, 400 LM LEDs.
These are non-TSO'd ..P/N 11-14745 ..... ---

NAVSTROBE PAR 36 LED TAXI LIGHT

Aircraft PAR36 Taxi Light, 220w, 109, 400 LM LEDs.
These are non-TSO'd ..P/N 11-14744 ..... ---

BEACON LIGHT CONSTANT & FAST WHITE STROBES

Note: For Experimental aircraft use only. Not FAA/PMA Approved. NavStrobe Aircraft Beacon Light with Constant & Fast White Strobe 503 LM LED's.
Dimensions: 1.9 in x 0.7 in (49.0 mm x 1.8 cm) Weight: 0.32 oz (9 g). 10-28VDC.
Turn on first: Constant lighting / Turn on second time <3s: Fast Strobe. Switch between modes in fog/cloud etc.
5 WATT .....P/N 11-12193 ..... ---
30 WATT .....P/N 11-13522 ..... ---

AIRCRAFT WINGTIP N AVLIGHT CLEAR LENS COVER

Color: Clear Optical Borosilicate glass. Application: Wingtip Navigation Light lens cover replacement. Contains 1 per pack. Dimensions: 1.57 in x 1.04 in (40 mm x 26.5 mm) Weight: 0.55 oz (14 g)
P/N 11-11990 ..... ---

NAVSTROBE AIRCRAFT PANEL LED LIGHT

Note: For Experimental aircraft use only. Not FAA/PMA Approved. Replacement for GE1815 bulb. Rated Voltage: 8-16VDC. 1 mode: constant on. Draws <110ma @ 14.4VDC. Color Temperature: Aviation White 4300k. 1 light per pack.
12V.....P/N 11-14929 ..... ---
24V.....P/N 11-15995 ..... ---

NAVSTROBE AIRCRAFT WINGTIP LIGHT STATUS INDICATOR

Material: Acrylic. Color BIN: Clear with frost coating to reflect light. Application: Wingtip Navigation Light status indicator.Use on Left wingtip in down position or Right wingtip in up position.
Right.....P/N 11-14927 ..... ---
Left.....P/N 11-14928 ..... ---

AIRCRAFT WINGTIP NAVLIGHT LENS COVER GASKET

Color: Gray. Application: Wingtip Navigation Light lens gasket replacement. Contains 1 per pack. Dimensions: 2.57 in x 1.14 in (40 mm x 28.5 mm x 1.5 mm) Weight: 0.15 oz (2.5 g)
P/N 11-11991 ..... ---

AIRCRAFT WINGTIP NAVLIGHT GREASE

Color: Clear
Application: Wingtip Navigation Light lubricatent. Contains 1 per pack. Dimensions: 4.25 in x .11 in (108 mm x 2.8 mm) Weight: 0.176 oz (5 g) .....P/N 11-11992 ..... ---

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AEROLEDS LED AVIATION LIGHTING

AEROLEDS SUNSPOT 36-4000 75W PAR36 LIGHTS

FAA-PMA FOR CERTIFIED AIRCRAFT

AeroLEDs SunSpot 36 75W delivers exceptional performance for both landing and taxi operations:

• **Landing Light:** 200,000+ candela, 15°x15° beam, visible up to 30 miles for outstanding recognition in the air.

• **Taxi Light:** 60,000 candela, 20°vertical x40° horizontal beam for superior ground visibility.

These advanced LED lights offer true-to-life illumination with exceptional color rendering, consume less power, and are resistant to vibrations. Designed for convenience, installation is seamless with the standard PAR36 mount and existing electrical connections.

-H Model Features:

• Built-in Pulse (wig-wag) mode for enhanced safety, aiding collision avoidance and reducing bird strikes.
• Self-contained Pulse controller requires no external circuitry.
• Reduces electrical load by 50% in multi-light setups.

Specifications:

• Power Consumption: 75 watts max
• Lifespan: 30,000+ hours MTBF
• Lens: UV-hardcoated polycarbonate
• Construction: Aluminum, black powder-coated heat sink
• Approvals: FAA-PMA/STC certified

Upgrade to AeroLEDs SunSpot 36 Series for unmatched visibility, reliability, and safety in all your aircraft lighting needs.

LANDING LIGHTS

Description	Part No.	Price
SunSpot 36-4509 Landing Light (14v)	11-19466	---
SunSpot 36-4509-H Landing Light w/Pulse (14v)	11-19467	---
SunSpot 36-4591 Landing Light (28v)	11-19468	---
SunSpot 36-4591-H Landing Light w/Pulse (28v)	11-19469	---

TAXI LIGHTS

Description	Part No.	Price
SunSpot 36-4519 Taxi Light (14v)	11-19679	---
SunSpot 36-4519-H Taxi Light w/Pulse (14v)	11-19681	---
SunSpot 36-4626 Taxi Light (28v)	11-19468	---
SunSpot 36-4626-H Taxi Light w/Pulse (28v)	11-19682	---

AEROLEDS SUNSPOT 36-4000 100W PAR36 LIGHTS

FAA-PMA FOR CERTIFIED AIRCRAFT

AeroLEDs' SunSpot 36 100W delivers top-tier performance for landing and taxi operations:

• **Landing Light:** 200,000+ candela, 20°x20° beam, visible up to 30 miles.

• **Taxi Light:** 60,000+ candela, 20°x40° beam for superior ground visibility.

These lights provide vivid, true-to-life illumination, consume less power, and resist vibrations. Installation is easy with a standard PAR36 mount.

-H Model Features:

• Built-in Pulse (wig-wag) mode for enhanced safety and collision avoidance.
• Reduces electrical load by 50% in multi-light setups.

Specifications:

• 100W max, 30,000-hour lifespan
• UV-coated polycarbonate lens, FAA-PMA/STC approved

Upgrade your aircraft with SunSpot 36 Series for unmatched visibility and reliability.

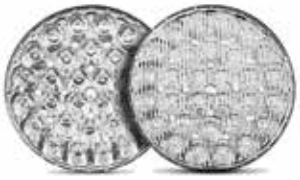
LANDING LIGHTS

Description	Part No.	Price
SunSpot 36-4596 Landing Light (28v)	11-14572	---
SunSpot 36-4313 Landing Light (14v)	11-17127	---
SunSpot 36-4596-H Landing Light w/Pulse (28v)	11-17132	---
SunSpot 36-4313-H Landing Light w/Pulse (14v)	11-17129	---
SunSpot Synchronizer Circuit (-H Models Only)	11-14028	---

TAXI LIGHTS

Description	Part No.	Price
SunSpot 36-4587 Taxi Light (28v)	11-14573	---
SunSpot 36-4314 Taxi Light (14v)	11-17128	---
SunSpot 36-4587-H Taxi Light w/Pulse (28v)	11-17133	---
SunSpot 36-4314-H Taxi Light w/Pulse (14v)	11-17131	---
SunSpot Synchronizer Circuit (-H Models Only)	11-14028	---

AEROLEDS SUNSPOT 46-4000 SERIES LIGHTS - FAA-PMA



AeroLEDs SunSpot 46 sets the industry standard for high-performance landing and taxi lights:

• **Landing Light:** 230,000+ Candela, 20°x20° Broad aviation-white beam with vivid, true-to-life color rendering for improved visibility and safety.

• **Taxi Light:** 100,000 Candela, 20°x40° beam for exceptional ground visibility and air recognition up to 30 miles.

These lights consume less power, resist vibrations, and integrate seamlessly with existing PAR46 mounts for easy installation.

-H Model Features:

• Built-in Pulse (wig-wag) mode for enhanced recognition and collision avoidance.
• Reduces electrical load by 50% in multi-light installations.

Specifications:

• Power Consumption: 175 watts max
• Lifespan: 30,000+ hours MTBF
• Lens: UV-hardcoated polycarbonate
• Construction: Aluminum, black powder-coated heat sink
• Approvals: FAA-PMA/STC certified

Upgrade to SunSpot 46 Series for unmatched performance, reliability, and safety in all lighting conditions.

LANDING LIGHTS

Description	Part No.	Price
SunSpot 46-4580 Landing Light (28v)	11-15868	---
SunSpot 46-4580-H Landing Light w/Pulse (28v)	11-17134	---
SunSpot 46-4522 Landing Light (14v)	11-19344	---
SunSpot 46-4522-H Landing Light w/Pulse (14v)	11-19345	---
SunSpot Synchronizer Circuit (-H Models Only)	11-14028	---

TAXI LIGHTS

Description	Part No.	Price
SunSpot 46-4554 Taxi Light (28v)	11-15869	---
SunSpot 46-4554-H Taxi Light w/Pulse (28v)	11-17136	---
SunSpot Synchronizer Circuit (-H Models Only)	11-14028	---

AEROLEDS SUNSPOT 64 LANDING LIGHT - FAA PMA - 28V

AeroLEDs SunSpot 64-4000 Series provides brilliant brightness and efficiency as an LED landing light solution, designed for seamless compatibility:

• **Landing Light:** Delivers brilliant brightness compared to stock incandescent lamps, enhancing ground visibility and air recognition for safer operations.

Engineered for convenience, the SunSpot 64-4000 Series serves as a simple drop-in replacement for all existing PAR64 configurations, ensuring easy installation with no additional modifications required.

SunSpot 64-4559 (28v) Landing Light.....P/N 11-16454 ..... ---

AEROLEDS SUNSPOT 36 EQUINOX DUAL-FUNCTION PAR36 LANDING / TAXI

FAA-PMA FOR CERTIFIED AIRCRAFT

AeroLEDs SunSpot 36 Equinox is the industry's first dual-function landing and taxi light, delivering tailored lighting for all phases of flight:

• **Landing Mode:** Bright 20°x20° beam for enhanced visibility during high-speed takeoffs and landings.

• **Taxi Mode:** Wide 20°x45° beam for superior runway/taxiway illumination without impairing other pilots' vision.

With vivid, true-to-life illumination, the Equinox consumes less power, resists vibrations, and fits seamlessly into existing PAR36 mounts using a DPDT switch for dual-mode functionality.

Additional Features: • Built-in Pulse (wig-wag) mode for daytime recognition ,collision avoidance and reduced bird strikes. • Reduces electrical load by 50% in multi-light setups.

Description	Part No.	Price
SunSpot 36 Equinox (14v)	11-19188	---
SunSpot 36 Equinox (28v)	11-19189	---
SunSpot 46 Equinox (14v)	11-19692	---
SunSpot 46 Equinox (28v)	11-19693	---

VISIT OUR WEBSITE OR CALL US FOR ADDITIONAL PART NUMBERS OR ACCESSORIES.

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SUNSPOT™ PCX SERIES LANDING/TAXI LIGHT
(FOR PILATUS)

The SunSpot™ 36 PCx series replacement LED's utilize existing Pilatus mounting configurations and electrical connections, making installation a true drop-in replacement. This PAR36 light is compatible with models: PC-7, PC-7 MKII, PC-9, PC-12 and PC-21. Available for 24V systems - Lumens 11,000 - Candela 150,000 - Power consumption: 100 watts max - Simple drop-in replacement - Approvals: FAA-PMA/STC - 5-year warranty

Description	Part No.	Price
SunSpot PCx Landingi Light (28v)	11-18443	---
SunSpot PCx Taxi Light (28v)	11-18444	---
KIT-0034 Includes: • (2) Landing Light Assemblies- 900-01-100-A • (2) 801-007-26M5-3SB • (1) Taxi Light Assembly-900-01-100-C (1) 801-007 25M5-3SA • (1) SA02558SE	11-18445	---

AEROSUN™ LANDING/TAXI LIGHT

AeroSun EVO IV is a newly optimized version of our long-trusted AeroSun LED Landing/Recognition light. Now with 3X the performance, this versatile LED can be mounted virtually anywhere on the aircraft. AeroSun EVO IV comes standard with AeroLEDs' signature Pulse (wigwag) functionality. The Pulse controller is fully integrated into the light and requires no external circuitry. This feature significantly increases recognition in daylight as well as light operations, aiding in collision avoidance and reduced bird strikes. In dual or quad light installations, while operating in wig-wag mode, this self-contained pulse function reduces load on the aircraft electrical system by 50%. *Optional mount sold separately.

Description	Part No.	Price
AeroSun EVO IV	11-11359	---
Mounting kit for the AeroSun landing / recognition light	11-08144	---

AEROSUN™ VX LANDING/TAXI LIGHT

The Aerosun Vx is a high intensity wingtip landing/taxi/recognition light designed specifically for the Van's RV family of aircraft. Each pair draws 165 Watts of power and generate 13,300 lumens of light. The lights include a built-in wig-wag controller for a synchronized recognition light mode. The AeroSun Vx can be installed in any RV-6, RV-7, or RV-8 that has a set of W-715-1 fiberglass wingtip fairings with the 6" wide light cove. RV-9 will require the AeroLEDs conversion Kit P/N's 01-2500-KT-1 & 01-2500-KT-1A. RV10/14 will require AeroLEDs conversion Kit 01-2500-KT-2 and will work with the existing wingtip window supplied from vans (VA-193).

Vans Aircraft Model Eligibility

RV6	RV7/8	RV9	RV12	RV10/14
•	•	•	NOT ELIGIBLE	•
•	Requires W-715-1 Wingtip			
•	Requires Conversion Kit 01-2500-KT-1 *Note: Window (VA-166) supplied from Vans **WILL NOT** work for the conversion kit so new part (01-2500-KT-1A) must be used.*			
•	Requires Conversion Kit 01-2500-KT-2 *Note: The existing wingtip window (VA-193) from Vans **WILL** work with conversion kit.*			

Description	Part No.	Price
AeroSun VX Landing/Taxi/Recognition Light	11-12921	---
AeroSun VX Conversion Kit w/Lens - RV9/9A	11-13272	---
AeroSun VX Conversion Kit - RV10/14	11-13273	---

AEROLEDS SUNTAIL WHITE ANTI-COLLISION STROBE / POSITION LIGHT
(CERTIFIED OR EXPERIMENTAL)

The TSO'd SunTail (Anti-collision Strobe and white Position) light has been designed for the tail of the aircraft. The SunTail is recommended with the Pulsar NS (Navigation/ Anti-collision Strobe) lights. TSO-C30c Type III and TSO-C96a Class II approved. Available for 14V and 28V electrical systems.

Description	Part No.	Price
SunTail Strobe/Position Light (14v) - Certified	11-15266	---
SunTail Strobe/Position Light (28v) - Certified	11-15267	---
SunTail Strobe/Position Light (14v) - Experimental	11-15268	---
SunTail Strobe/Position Light (28v) - Experimental	11-15269	---

AEROLEDS SUNBEAM LANDING TAXI RECOGNITION LIGHT WITH PULSE
FAA-PMA FOR CERTIFIED AIRCRAFT

SunBeam™ LED landing light is manufactured under FAA-PMA standards in a rectangular format to fit a variety of experimental aircraft and LSAs. It features integrated Pulse or "WigWag" significantly increasing recognition in broad daylight as well as night operations to help avoid midair collisions and bird strikes while drawing half the current. Aircrafts that use this landing light include: Diamond DA-40, the Cessna Columbia, the Liberty XL, some Cirrus models, and some Grumman models. Lumens 3,300 - Candela 91,000 - Power consumption: 35 watts max - 5-year warranty

Description	Part No.	Price
Landing Taxi Recognition Light with Pulse (14v)	11-19210	---
Landing Taxi Recognition Light with Pulse (28v)	11-19211	---

MICROSUN™ TAXI/RECOGNITION LIGHT

The MicroSun™ LED delivers ultra-powerful performance in a compact, versatile design, making it the perfect choice for Experimental and Kit planes. With the ability to mount almost anywhere, it provides reliable landing and taxi lighting for enhanced visibility and safety.

Equipped with a built-in Pulse (wig-wag) mode, the MicroSun™ increases recognition during both daylight and night operations, reducing the risk of midair collisions and bird strikes, all while drawing just 24 watts max—half the current of traditional systems.

Description	Part No.	Price
MicroSun Taxi/Recognition Light	11-07779	---
MicroSun Taxi/Recognition Light External Mount	11-16655	---

SUNRAY™ EVO III LANDING LIGHT

SunRay™ EVO III LED is a newly optimized version of our long-trusted SunRay Plus landing light. Now with almost 4X the performance, this compact and versatile LED can be mounted virtually anywhere on the aircraft. SunRay EVO III comes standard with AeroLEDs' signature Pulse (wigwag) functionality. The Pulse controller is fully integrated into the light and requires no external circuitry. This feature significantly increases recognition in daylight as well as night operations, aiding in collision avoidance and reduced bird strikes. In dual or quad light installations, while operating in wig-wag mode, this self-contained pulse function reduces load on the aircraft electrical system by 50%.

Description	Part No.	Price
SunRay EVO III Landing/Recognition Light	11-09348	---
SunRay Plus Mounting Kit	11-12037	---

AEROLEDS PULSAR 600 TSO WINGTIP LED LIGHTS

The Pulsar 600 Series (formally known as Pulsar) combines navigation, strobe, and rear-facing position lights in one compact unit. Featuring an aerodynamic design and standard mounting footprint, it's ideal for replacing legacy lights. FAA-TSO/STC approved, it exceeds industry standards for performance and compliance.

Key Features:

- Three-in-One: Navigation, strobe, and rear-facing position light.
- Power Options: Compatible with 14V and 28V systems.
- Energy Efficient: Low power consumption, no external power supply required.
- Easy Installation: Standard mounting pattern with patented bracket.

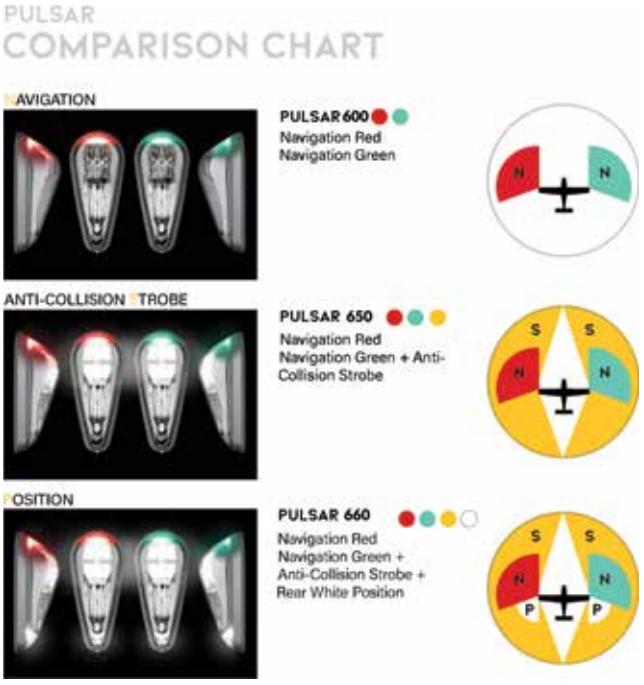
Upgrade to the Pulsar 600 Series for efficient, reliable, and compliant aircraft lighting.

Description	Part No.	Price
Pulsar 600 Pair (14v) - Certified	11-15567	---
Pulsar 600 Pair (28v) - Certified	11-15568	---
Pulsar 600 Left (Red) Only (14v) - Certified	11-19347	---
Pulsar 600 Right (Green) Only (14v) - Certified	11-19348	---
Pulsar 600 Left (Red) Only (28v) - Certified	11-19349	---
Pulsar 600 Right (Green) Only (28v) - Certified	11-19351	---
Pulsar 600 Pair (14v) - Experimental	11-17138	---
Pulsar 600 Left (Red) Only (14v) - Experimental	11-18435	---
Pulsar 600 Right (Green) Only (14v) - Experimental	11-18436	---
Pulsar Mount Kit (single bracket)	11-18432	---

PULSAR N LED POSITION LIGHT

Pulsar N is part of our Pulsar N Series™ LED Navigation Lights. Pulsar N serves as a navigation light for directional red and green positioning. Designed with an industry-standard mounting footprint, an aerodynamically low drag profile, standard three-position mounting screw pattern with a patented mounting bracket, they are ideal for replacing legacy light installations. TSO approved and meet or exceed C-30c, Type I, II. Available for 12V and 24V systems - Low power consumption - 5-year warranty • **Mounting Brackets Included With Purchase**

Description	Part No.	Price
Light Right (28v) - Certified	11-15873	---
Pulsar N Series Mounting Bracket	11-18433	---



VISIT OUR WEBSITE OR CALL US FOR ADDITIONAL PART NUMBERS OR ACCESSORIES.

AEROLEDS PULSAR 650 LED FORWARD POSITION / ANTI-COLLISION \WINGTIP LIGHTS

The Pulsar 650 (formally known as Pulsar NS) is a versatile two-in-one LED light designed for optimal performance and compliance. It functions as both a navigation light for directional red and green positioning and a strobe light for enhanced visibility during daylight and nighttime flights.

With its aerodynamic, low-drag profile, industry-standard mounting footprint, and a patented three-position mounting bracket, the Pulsar 650 is an ideal replacement for legacy light installations.

Key Features:

- Dual Functionality: Navigation and strobe lighting in one compact design.
- Power Options: Compatible with both 12V and 24V systems.
- Energy Efficient: Low power consumption with no external power supply required.
- Strobe Synchronization: Available for multi-light setups.
- Easy Installation: Standard mounting screw pattern for seamless upgrades.
- Certified for Safety: FAA-TSOA/STC approved, exceeding C-30c Type I & II, and C-96a Class II standards.

Upgrade your aircraft lighting with the reliable and efficient Pulsar 650.

Description	Part No.	Price
Pulsar 650 Pair (14v) - Certified	11-15272	---
Pulsar 650 Left (14v) - Certified	11-15874	---
Pulsar 650 Right (14v) - Certified	11-15875	---
Pulsar 650 Pair (28v) - Certified	11-15273	---
Pulsar 650 Left (28v) - Certified	11-15876	---
Pulsar 650 Right (28v) - Certified	11-15877	---
Pulsar 650 Pair (14v) - Experimental	11-15278	---
Pulsar 650 Left (14v) - Experimental	11-15859	---
Pulsar 650 Right (14v) - Experimental	11-15860	---
Light Pair (28v) - Experimental	11-15279	---
Light Left (28v) - Experimental	11-15862	---
Light Right (28v) - Experimental	11-15863	---
Pulsar N Series Mounting Bracket	11-18433	---

PULSAR 660 LED FORWARD & TAIL POSITION/ANTI-COLLISION WINGTIP LIGHTS

The Pulsar 660 (formally known as Pulsar NSP) offers a three-in-one lighting solution, combining a navigation light for directional red and green positioning, a strobe light for enhanced visibility during daylight and night flights, and a rear-facing white position light for added safety.

Designed for seamless installation, it features an industry-standard mounting footprint, a low-drag aerodynamic profile, and a patented three-position mounting bracket. This makes the Pulsar 660 an excellent replacement for legacy lighting systems.

Key Features:

- Three-in-One Functionality: Navigation, strobe, and rear position light in a single unit.
- Power Options: Compatible with 12V and 24V systems.
- Energy Efficient: Low power consumption, no external power supply required.
- Strobe Synchronization: Available for synchronized multi-light setups.
- Easy Installation: Standard mounting design for simple upgrades.
- Certified for Safety: FAA-TSOA/STC approved, meeting and exceeding C-30c (Type I, II, III) and C-96a (Class II) standards.

Enhance your aircraft's lighting with the Pulsar 660, delivering exceptional performance, reliability, and compliance.

Description	Part No.	Price
Pulsar 660 Pair (14v) - Certified	11-15274	---
Pulsar 660 Left (14v) - Certified	11-15878	---
Pulsar 660 Right (14v) - Certified	11-15879	---
Pulsar 660 Pair (28v) - Certified	11-15275	---
Pulsar 660 Left (28v) - Certified	11-15880	---
Pulsar 660 Right (28v) - Certified	11-15881	---
Pulsar 660 Pair (14v) - Experimental	11-15280	---
Pulsar 660 Left (14v) - Experimental	11-15864	---
Pulsar 660 Right (14v) - Experimental	11-15865	---
Pulsar 660 Pair (28v) - Experimental	11-15281	---
Pulsar 660 Left (28v) - Experimental	11-15866	---
Pulsar 660 Right (28v) - Experimental	11-15867	---
Pulsar N Series Mounting Bracket	11-18433	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

POLARIS™ POSITION LIGHT BULB

The Polaris™ Position Light Bulb is a reliable LED replacement for traditional incandescent position lights, providing improved efficiency and longevity. Designed for installation behind green or red forward-facing navigation lenses, it's a simple and effective upgrade.

Key Features:

• Energy Efficient: Consumes only 7 watts max.
• Power Options: Compatible with 12V and 24V systems.
• Easy Installation: Simple drop-in replacement with Bay 15s base.

Certified for Safety: FAA-PMA approved.

Description	Part No.	Price
Polaris Position Light (14v)	11-17571	---
Polaris Position Light (28v)	11-17572	---

SUNBEACON II LED BEACON

The SunBeacon II™ is a high-performance 360-degree LED aircraft beacon, offering superior anti-collision visibility with enhanced light output and lower power consumption. Available with either white or red LEDs and a standard clear lens, it's a direct replacement for traditional rotating or flashing aircraft beacons. Designed with a low-profile compact form, the SunBeacon II™ reduces drag and requires zero maintenance, making it an ideal choice for modern aircraft. It meets or exceeds TSO C96a Class I & III (Red) and Class II (White) standards, ensuring reliable performance and safety compliance.

Key Features:

• 360-Degree Illumination: Superior visibility with anti-collision strobe.
• Power Options: Compatible with 12V and 24V systems.
• Energy Efficient: Low power consumption with no external power supply required.
• Strobe Synchronization: Available for multi-light setups.
• Easy Installation: Includes optional twist mount or 3.75" cup mount.

Certified: FAA-TSO/STC approved.

Description	Part No.	Price
SunBeacon II Red (12v) - Certified	11-15882	---
SunBeacon II Red (24v) - Certified	11-15883	---
SunBeacon II White (12v) - Certified	11-15884	---
SunBeacon II White (24v) - Certified	11-15885	---
SunBeacon II Twist Mount Kit	11-13537	---
SunBeacon II 3.75" Cup Mount Adapter	11-17387	---

STARLIGHT™ WING ICE LIGHT

Low-lying clouds and sub-zero temperatures can create hazardous ice formations on the wings of your aircraft. StarLight™ was engineered with your safety in mind. This LED Ice Light (or wing inspection/wing scan light) provides optimum illumination of your wing to check for the formation of ice. It offers more total light output (Lumens) and a wider beam spread to give you the optimum amount of light needed. It also provides added visibility to your aircraft for collision avoidance and recognition. StarLight Ice serves as an easy LED replacement for incandescent 7079 light bulbs. Available for 24V systems - BAY15s socket - Lumens 550 - Power consumption: 5 watts max - Approvals: FAA-PMA - 5-year warranty

Description	Part No.	Price
StarLight Wing Inspection Light (24v)	11-16661	---

ACCESSORIES

11-18431

11-18430

Description	Part No.	Price
Pulsar/Pulsar N Series Adapter Plate (Aeroflash Conversion)	11-18431	---
Pulsar NS Cessna Wingtip Fairing Adapter	11-18430	---

VAN'S RV LIGHTING KITS

Four different kits from which to choose. All kits do not requre power supply.

Option 1

Option 2

Option 3

Option 4

Description	Part No.	Price
Van's RV Kit Option 1:		
Pair Pulsar 650 EXP (14V), SunTail EXP (14V)	11-09921	---
Pair Pulsar 650 EXP (28V), SunTail EXP (28V)	11-17268	
Van's RV Kit Option 2:		
Pair Pulsar 650 EXP(14V), SunTail EXP(14V), (2) AeroSun Evo IV Landing/Taxi Lights	11-09922	---
Pair Pulsar 650 EXP(28V), SunTail EXP(28V), (2) AeroSun Evo IV Landing/Taxi Lights	11-17267	
Van's RV Kit Option 3:		
Pair Pulsar 650 EXP(14V), SunTail EXP(14V), (2) SunRay EVO III Landing/Recognition Lights	11-09923	---
Pair Pulsar 650 EXP(28V), SunTail EXP(28V), (2) SunRay EVO III Landing/Recognition Lights	11-17266	
Van's RV Kit Option 4:		
Pair Pulsar 600 EXP (14V), (2) AeroSun Evo IV Landing/Taxi Lights	11-09924	---

KING AIR LIGHTING KITS

11-18447

11-19694

The SunSpot™ 100W & 75W LED Lighting Kits are drop in replacement for King Air aircraft, delivering superior performance, visibility, and energy efficiency. These kits provide a seamless upgrade to your landing, and taxi lighting, ensuring optimal safety and reliability for every flight.

Description	Part No.	Price
KIT-0054 - King Air Landing & Taxi Light KitSunSpot 100W.	11-18447	---
KIT-0067 - King Air Landing & Taxi Light Kit SunSpot 75W.	11-19694	---

CESSNA CARAVAN (C208) LIGHTING KITS

Aeroleds Cessna Caravan LTL complete Light Kit (30,250 Lumens).

Description	Part No.	Price
SunSpot Landing/Taxi Light Kit	11-18446	---

PILATUS LIGHTING KITS

The SunSpot™ 36 PCX Series is a powerful, FAA-PMA/STC-approved LED landing light designed for Pilatus PC-12 aircraft. Engineered as a true drop-in replacement, it utilizes existing Pilatus mounting configurations and electrical connections for effortless installation.

Key Features:

• Superior Brightness: Delivers over 75% more light output than competitors.
• Energy Efficient: Consumes only 100 watts max.
• Enhanced Visibility: Higher white color temperature for improved clarity.
• Easy Installation: Seamless drop-in replacement for legacy lighting.
• Certified: FAA-PMA/STC approved.

Compatible Aircraft: Pilatus Models: PC-12

Description	Part No.	Price
SunSpot PC12 Landing/Taxi Light Kit (24v)	11-18445	---

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VISIT OUR WEBSITE OR CALL US FOR ADDITIONAL PART NUMBERS OR ACCESSORIES.

SKYSPORTS BRIGHT STAR STROBE

Measuring only 4" high by 2 3/4" diameter, it weighs less than 5 ounces! Special dual xenon flashtube arrangement provides ultra-bright flash visible for over 3000' in daylight, much more at dusk and dawn. No separate power pack is required, all electronics are fully contained in the strobe itself. Lens is available in clear, red or green. Each strobe draws less than 300ma. Mounting bracket included. Buy two for wing-tip installation. Must be run from 12 volt battery. Dimensions: 4"x 2.75"(dia) Weight: 4.5 ounces. **Features**: • Operates on 12VDC (12' lead is hardwired to unit) • Completely self-contained • Water-resistant • Ultra-compact • Meets FAR 103 • Bright 8 joule flash • 40 flashes/minute

Strobe 12VDC Clear.....P/N 11-07769 ..... ---

ACCESSORIES

Strobe Lens Clear.....P/N 11-07772 ..... ---
Strobe Lens Red.....P/N 11-07770 ..... ---
Strobe Lens Green .....P/N 11-07771 ..... ---

ELECTRONIC ANTI-COLLISION LIGHT - ACL4

The electronic anti collision light 4 (ACL4) is a highly innovative product which contributes to saver airspace. The new LED technology allows an incredibly excellent, red light with only approx. 10% of the input power compared with conventional lights. The casting in a high-optical plastic makes the ACL absolutely insensitive against water, vibrations and other environmental influence. The efficiency of the output is much higher, than with conventional electric light bulbs. The self-warming of the ACL is low and can be determined as safe. To avoid overheating, the heat balance is controlled electronically ..... P/N 11-10678 ..... ---

RECESSED MOUNT LED LIGHT FIXTURES

Recessed mount convenience light. 3 Bright LEDs behind a frosted panel. Recessed mount with hardware. Dimensions: 2.25" x 2.25" x .5" depth. #6 mounting holes with snap on cover. 12 Volt DC or 24 Volt DC, very low power drain (0.1mA). Applications: Mounts flush into foot wells, door panels, and side panels. Ideal as a convenience light, mp light, or chart light.

Description	Part No.	Price	Description	Part No.	Price
12V White	11-09266	---	24V White	11-09268	---
12V Red	11-09267	---	24V Red	11-09269	---
12V Blue	11-09642	---	24V Blue	11-09644	---

OPTIMUS LED AUX LIGHTS

Utilizing an all new proprietary IRIS Reflector Technology, the Long Range series provides the ultimate focus for long range lighting by producing 693 ft. of usable light from a single 3.5" tall, 10-watt LED. Compared to a standard 55 watt low beam headlight reach of 88 ft. and a standard 65 watt high beam reach of 153 ft. Optimus lights also feature Cyclops Prime Drive technology for integrated thermal management and dimming capabilities. **Pulse Width Modulation** The Optimus Prime utilizes integrated Pulse Width Modulation (PWM) dimming circuitry to manage heat levels. PWM works by flashing the LED at a frequency faster than the human eye can detect, reducing the time that the LED is operating while still delivering 100% light output. Round.....P/N 11-12266 ..... ---

BLACK FLUTED CONTROL KNOB

Black Bakelite knob. Fluted grip. ¼" brass bushing with set screw. ¾" in diameter x 7/16" high. Fits potentiometers for Superior Panel Technology dimmers.

P/N 11-07344 ..... ---

XEVISION® XETREME™ LED LANDING/TAXI LIGHTS

The benefit of the combination of the XV36-LED-7UN landing light and the XV36-LED-7EL taxi light is enormous, providing a far reach of central illumination (7UN) and a superb uniform illumination to the sides (7EL). These characteristics combined, provide optimal benefits for ground and flight operation safety. Too bright? Just choose 50% light intensity, simply selected in the cockpit on the fly. XeVision's proprietary strobe mode, dubbed XeStrobe™, is purposely designed by their engineers for better recognition. The XeStrobe™ pattern and high brightness light beam of this LED landing light is a perfect solution to mitigate bird strikes. Used together with the LED taxi light version, the wider taxi projecting angle helps to reach flocks of birds over a wider range. By using both Landing and Taxi fixtures with the XeStrobe™ pattern selected "To be seen" is a no-brainer even for birds. XeStrobe™ is far superior to the traditional wig-wag pattern. **Specifications**: • Input power: 100 watt • Form Factor: par 36 (Also, serves par 46 using the optional generic mounting adapter/ bracket for individual installation) • LED output power: 92 watt

Landing Light.....P/N 11-19030 ..... ---
Taxi Light.....P/N 11-19031 ..... ---

SINGLE / 2 CHANNEL PWM DIMMERS

The two dimmers include a single channel model. Both use pulse wave modulation, or PWM electronic design for precise control of LED lighting such as LED instrument panel lighting, baggage, utility, map or post lights. The self-contained products are designed for easy installation and feature integrated on/off switches on each rheostat. Rated at 18 Watts per dimmer channel, the dimmers are capable of operating a large number of interior lighting products and are engineered to provide additional over-current, over-voltage and reverse polarity protection.

SINGLE CHANNEL PILOT'S LIGHT DIMMER

Single Channel PWM (pulse wave modulation) dimmers are ideal for operating LED Light Strips and other interior incandescent or LED lighting, such as map lights, convenience, footwell or baggage compartment lighting. Features include reverse-polarity protection and over-voltage protection as well as an integrated on/off switch (in the fully counterclockwise position).

12 Volt DC (14VDC systems) version has 7 Amps of capacity (97W)
24 Volt DC (28VDC systems) version has 4 Amps of capacity (112W)
Just 1.25" x 1.6". Shaft diameter is 17/64" (6.75mm)
Screw-down terminals for easy connection of input and output wires
Powerful enough to operate a wide range of lighting products
High-quality push-on knob. Shaft length accommodates panel widths to 5mm.

2-CHANNEL PILOT'S LIGHT DIMMER

2 Channel PWM (pulse wave modulation) dimmers are ideal for controlling more than one bank of LED or incandescent lighting, such as 2-color LED light strips or any combination of lighting (panel lighting, overhead map lights, foot well lighting, etc.). Each rheostat controls a separate lighting channel and contains its own On/Off switch (in the fully counterclockwise position). 1.5 Amp per channel version (12-14VDC systems) controls up to 18W per channel. 7 Amp per channel version (12-14VDC systems) control up to 97W per channel and adds over-current protection and dual independent heat sinks. Ideal for LED or incandescent lighting. Dual rheostat shafts permit independent control of each channel. Screw-down terminals for easy connection of input and output wires. Powerful enough to operate a wide range of lighting products. High-quality push-on knob. Shaft length accommodates panel widths to 5mm

Description	Part No.	Price
Single Channel PWM Dimmer 12V	11-06674	---
Single Channel PWM Dimmer 24V	11-07286	---
Dual Channel Dimmer 12V	11-10783	---
Dual Channel Dimmer 24V	11-14109	---

PWM DIMMER

Extremely powerful PWM Dimmer - 7 Amps capacity. Perfect for controlling interior lighting inside your Aircraft. Easy-to-install with smooth control rheostat. High quality fluted knob included. (Note: Rheostat does not have an integrated on/off switch - in full counterclockwise it is OFF). Designed to control both LED and Incandescent lighting - 7 Amps per channel. 12 OR 24 Volt Pulse Wave Modulation (PWM) Electronic Dimmer for DC Lighting Applications.

12V .....P/N 11-14107 ..... ---
24V .....P/N 11-14108 ..... ---

HIGH POWER 30 AMP (30A) PWM DIMMER

Extremely powerful PWM Dimmer - 30 Amps capacity. Perfect for controlling large banks of LED lighting.. Easy-to-install, on/off switch on rheostat. Push-on knob included. Designed to control both LED and Incandescent lighting - 30 Amps maximum. 12V or 24V Pulse Wave Modulation (PWM) Electronic Dimmer for DC Lighting Applications. Over-current protection, reverse polarity protection and over-voltage protection. On board ATM fuse for additional protection.

12V .....P/N 11-16081 ..... ---
24V .....P/N 11-16082 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

COCKPIT LIGHTS

754 SERIES LED COCKPIT LIGHTS

Parts Sold Separately

These versatile cockpit lights can be used to illuminate the instrument panel. They can be repositioned to illuminate your charts with their 110 degrees of angle adjustment while being able to rotate a full 360 degrees. Dimensions: 3/4" diameter, 1-5/8" tall fully-extended, 7/8" tall at 90 degrees. The mounting stud is 1/4" in diameter and can be mounted onto a surface up to .200" thick. Switchable models facilitate wiring an SPDT switch (not included) to the light, allowing either red or white operation. We also offer a flush-mount flange to mount the light if the back side of the light is unreachable. Flush Mount - (Pictured above) This part is for mounting and LED light Model 754 from the front side. The adapter base is 1-1/2" in diameter, stands 1-2" tall, and has a 1" bolt hole circle.

Model	Description	Body	Part No.	Price
754R-14V	4 Red 14V L.E.D.s	Alum.	11-04393	---
754R-28V	4 Red 28V L.E.D.s	Alum.	11-04394	---
754W-14V	4 White 14V L.E.D.s	Alum.	11-07481	---
754W-28V	4 White 28V L.E.D.s	Alum.	11-07482	---
754RW-14V	2 Red 2 White 14V L.E.D.s	Alum.	11-04395	---
754RW-28V	2 Red 2 White 28V L.E.D.s	Alum.	11-04396	---
754R-14V	4 Red 14V L.E.D.s	Black	11-07483	---
754R-28V	4 Red 28V L.E.D.s	Black	11-07484	---
754W-14V	4 White 14V L.E.D.s	Black	11-07485	---
754W-28V	4 White 28V L.E.D.s	Black	11-07486	---
754RW-14V	2 Red 2 White 14V L.E.D.s	Black	11-07487	---
754RW-28V	2 Red 2 White 28V L.E.D.s	Black	11-07488	---

Accessories	Body Color	Part No.	Price
Flush Mount	Aluminum	11-04397	---
Flush Mount	Black	11-07502	---

LED MAPLIGHTS

The body of the maplight is constructed of aircraft grade 6061 T6 aluminum and black anodize treated for protection from corrosion. The LED bulbs and internal components are high quality components, and are engineered to withstand 150% of their rated voltage without damage. The wire is tefzel coated mil-spec wire used in certified aircraft and the component potting material is a two part epoxy making this maplight highly vibration and shock resistant. The average bulb life of the LED used in this product in excess of 20,000 hours of use and the maplight draws only 20 milliamps of power with virtually no heat produced. The red LED used in this maplight gives the most light available in environments where night vision must be retained. This "LED Maplight" is built to be durable, simple to operate, lightweight and compatible with dimming systems. Each "LED maplight" is tested twice during production for maximum quality and customer satisfaction. The "LED maplight" is intended for use in Experimental, Amateur-Built aircraft only.

MAPLIGHT I - 4 LEDS			
Color	**Voltage**	**Part No.**	**Price**
Red	12	11-04387	---
Green	12	11-04388	---
White	12	11-04389	---
Red	24	11-04390	---
Green	24	11-04391	---
White	24	11-04392	---
MAPLIGHT II - 6 LEDS			
Color	**Voltage**	**Part No.**	**Price**
Red	12	13-06620	---
White	12	13-06621	---
Blue	12	13-06622	---
Green	12	13-06623	---
Red	24	13-06624	---
White	24	13-06625	---
Blue	24	13-06626	---
Green	24	13-06627	---
MAPLIGHT II - 6 LEDS Dual Color			
White/Red	12	13-06628	---
White/Blue	12	13-06629	---
White/Green	12	13-06630	---
White/Red	24	13-06631	---
White/Blue	24	13-06632	---
White/Green	24	13-06633	---

Accessories

Surface Mount Adapter SMA/MMII .....P/N 13-06651 ..... ---

1512 SERIES LED EYEBALL COCKPIT LIGHTS

These lights work great in overhead consoles and tight spaces. 30 degree adjustable angle, 360 degree adjustable rotation. LED technology draws less current (40 mA max.) and last much longer, (20,000+ hours.) and are fully dimmable.

The light is availabe in three light color version, two housing colors, and two voltages. The light colors are four red LED's, four white LED's, and two red/two white LEDS that can be lit separately with a SPDT switch (not included.) The housing colors are black or clear anodize. There are two voltages: 14 and 28. The light has a 1.45" flange and mounts in a 1.25" hole. The light requires 1" behind the mounting surface and is only 5/8" in front. It will accept up to 0.2" thick mounting surface.

Model	Description	Body	Part No.	Price
1512R-14V	4 Red 14V LEDs	Alum.	11-07489	---
1512R-28V	4 Red 28V LEDs	Alum.	11-07490	---
1512W-14V	4 White 14V LEDs	Alum.	11-07491	---
1512W-28V	4 White 28V LEDs	Alum.	11-07492	---
1512RW-14V	2 Red 2 White 14V LEDs	Alum.	11-07493	---
1512RW-28V	2 Red 2 White 28V LEDs	Alum.	11-07494	---
1512R-14V	4 Red 14V LEDs	Black	11-07495	---
1512R-28V	4 Red 28V LEDs	Black	11-07496	---
1512W-14V	4 White 14V LEDs	Black	11-07497	---
1512W-28V	4 White 28V LEDs	Black	11-07498	---
1512RW-14V	2 Red 2 White 14V LEDs	Black	11-07499	---
1512RW-28V	2 Red 2 White 28V LEDs	Black	11-07501	---

FIXED LED COCKPIT LIGHTS

Cockpit and or baggage compartment light that mounts in a 1.250 hole. This light is fixed (does not swivel) and is great for lighting a specific area. It has 4 L.E.D.s that are fully dimmable and only draws 30ma current. It is available in 2 light colors and 2 housing colors.

Voltage	Light Color	Housing Color	Part No.	Price
14	White	Silver	05-08303	---
14	Red	Silver	05-08298	---
14	White/Red	Silver	05-08301	---
14	White	Black	05-08304	---
14	Red	Black	05-08299	---
14	White/Red	Black	05-10634	---
28	White	Silver	05-08352	---
28	Red	Silver	05-08343	---
28	White/Red	Silver	05-08347	---
28	White	Black	05-08353	---
28	Red	Black	05-08346	---
28	White/Red	Black	05-08302	---

LED CABIN LIGHTING

This light can be used for a wide variety of applications. It has a 110° angle adjustment while being able to rotate 360° and are fully dimmable. The light end is 1 1/2" in diameter, 2 3/4" tall fully extended and 1 1/2" high at 90°. The mounting stud is 3/8" and can be mounted to a surface up to 1/2 thick. This light has 12 LEDs that draw amps max.

Voltage	Light Color	Housing Color	Part No.	Price
14	Red	Silver	05-08306	---
14	White	Silver	05-08314	---
14	Red	Black	05-08307	---
14	White	Black	05-08316	---
28	Red	Silver	05-08309	---
28	White	Silver	05-08318	---
28	Red	Black	05-08312	---
28	White	Black	05-08321	---

LED SUPER DOME LIGHT

The Superior Panel Technology Super Dome Light (SPTSDL) is an ultra-bright dome light that can be used in a variety of aircraft locations: Cabin, Baggage, Door entry, etc. The SPTSDL super dome provides a bright, wide angle, cool-white flood light, A dimmer is highly suggested for use with this light. The recommended dimmer is the Superior Panel Technology dimmer model SPTPWMLEDS. This pulse-width-modulating dimmer that will provide even, full range dimming from barely visible to full bright. This dimmer has a built in circuit breaking off switch which allows you to connect directly to a battery with an inline fuse so that you can turn on the light without turning on the master switch (if desired). The precision machine aluminum bezel on the light is available either in black (SPTSDLB) or clear (SPTSDLC) anodizing.

Specifications: • Input Voltage: 14-VDC • Input Power: 4 watts max; .25 amps @ 14 VDC • Weight: 1.41 oz • Dimensions: (not including connector) 2 inches wide X 3.33 inches long X .25 inches thick.

Black Anodized (No Dimmer) .....P/N 11-17445 ..... ---
Clear Anodized (No Dimmer) .....P/N 11-17446 ..... ---
Black Anodized (Dimmer with Built-In Internal Circuit Breaking Switch) P/N 11-17447 ..... ---
Clear Anodized (Dimmer with Built-In Internal Circuit Breaking Switch) P/N 11-17448 ..... ---

EL

MAP LIGHTS – LED LIGHTS

OPLITE FAA-PMA SINGLE COLOR 4 LED MAPLIGHTS

Easily installed, dimmable, unobtrusive and efficient, the LED Maplight 4 series consists of four LEDs of the same color that illuminate simultaneously. The LED Maplight 4 series is compatible with all dimming systems. Each LED Maplight 4 is manufactured and tested in accordance with FAA-PMA-approved protocols for quality assurance and customer satisfaction. Precision CNC Machined • Mil-Spec Anodized • 20,000 Hours LED Life.

Color	Volts	Part No.	Price
Red	12V	11-13846	---
Green	12V	11-13847	---
White	12V	11-13848	---
Red	24V	11-13849	---
Green	24V	11-13850	---
White	24V	11-13851	---

OPLITE FAA-PMA SINGLE COLOR 6 LED MAPLIGHTS

The Maplight 6 series is available either with all six LEDs of your color choice operating simultaneously, or three white LEDs and three LEDs of your color choice operating independently of the other color. The Maplight 6 series is compatible with all dimming systems. Each LED Maplight 6 is manufactured and tested in accordance with FAA-PMA-approved protocols for quality assurance and customer satisfaction.

Color	Volts	Part No.	Price
Red	12V	11-13852	---
White	12V	11-13853	---
Blue	12V	11-13854	---
Green	12V	11-13855	---
Red	24V	11-13856	---
White	24V	11-13857	---
Blue	24V	11-13858	---
Green	24V	11-13859	---

OPLITE FAA-PMA DUAL COLOR 6 LED MAPLIGHTS

The Maplight 6 series is available either with all six LEDs of your color choice operating simultaneously, or three white LEDs and three LEDs of your color choice operating independently of the other color. The Maplight 6 series is compatible with all dimming systems. Each LED Maplight 6 is manufactured and tested in accordance with FAA-PMA-approved protocols for quality assurance and customer satisfaction.

Color	Voltage	Part No.	Price
White/Red	12V	11-13860	---
White/Blue	12V	11-13861	---
White/Green	12V	11-13862	---
White/Red	24V	11-13863	---
White/Blue	24V	11-13864	---
White/Green	24V	11-13865	---

Surface Mount Adapter for MapLights.....P/N 13-06651 ..... ---

OPLITE 4 PANEL MOUNT BLUE LED COCKPIT LIGHT

Easily installed, dimmable, unobtrusive and efficient, the LED Oplite 4 series consists of four LEDs of the same color that illuminate simultaneously. The LED Oplite 4 series is compatible with all dimming systems. Each LED Oplite 4 is manufactured and tested in accordance with FAA-PMA-approved protocols for quality assurance and customer satisfaction.

Description	Part No.	Price
FAA APPROVED		
12V	11-19162	---
24V	11-19163	---
NON FAA APPROVED		
12V	11-19160	---
24V	11-19161	---

TASKLIGHT 600 COLOR LED COCKPIT LIGHTS

The TaskLight 600 series is available either with all 6 LEDs of your color choice operating simultaneously, or three White LEDs and three LEDs of your color choice operating independently of the other color. The TaskLight 600 series has an intensity knob and on/off switch built in and operates with input voltages ranging from 10v to 30 volts. Made in the USA, each LED Tasklight 600 is manufactured and tested to AS9100C quality standard and Traceability for quality assurance and customer satisfaction.

Single Color	Part No.	Price
Gooseneck Blue	11-15387	---
Gooseneck Green	11-15388	---
Gooseneck Red	11-15389	---
Gooseneck White	11-15390	---
Thru Panel Blue	11-15394	---
Thru Panel Green	11-15395	---
Thru Panel Red	11-15396	---
Thru Panel White	11-15397	---

Dual Color	Part No.	Price
Gooseneck Blue/White	11-15391	---
Gooseneck Green/White	11-15392	---
Gooseneck Red/White	11-15393	---
Thru Panel Blue/White	11-15398	---
Thru Panel Green/White	11-15399	---
Thru Panel Red/White	11-15400	---

Gooseneck Surface Mount Adapter .....P/N 11-15403 ..... ---

PILOT CONTROLLED LIGHTING RUNWAY LIGHTING SYSTEM

The PCL-854 is a modern pilot controlled airport lighting system for use by small airports, designed to meet the type I style A FAA requirements.
The PCL-854 Pilot Controlled Lighting System offers comprehensive frequency coverage, an intuitive touchscreen interface, data collection, analytics, and remote diagnostics. With features including daytime flash capability, auto gain, power saving functionality, and made-in-the-USA reliability, it ensures efficient and safe airport lighting operations. **Features:** • Traffic Alert - With Traffic Alert the PCL-854 ensures increased visibility for ground personnel, alerting them to pending aircraft movement. • Auto Gain - Auto Gain feature in our PCL-854 ensures optimal signal strength, enhancing performance and reliability in various operational conditions • Touch Screen - The intuitive touch screen interface provides quickglance information and easy navigation for enhanced usability. • Power Save Mode - Pilot Control Device's Power Save Mode optimizes energy usage, extending battery life for uninterrupted field operation.

P/N 11-20549 ..... ---

PILOT CONTROLLED LIGHTING RUNWAY LIGHTS

Description	Part No.	Price
Runway Light Single Color - White	11-20550	---
Runway Light Single Color - Blue Taxi	11-20552	---
Runway Light Single Color - Red Approach	11-20553	---
Runway Light Single Color - Green Threshold	11-20554	---
Runway Light Dual Color - Red/Green	11-20551	---
Runway Light Dual Color - Red/Blue	11-20555	---
Runway Light Dual Color - Red/White	11-20556	---
Runway Light Dual Color - White/Blue	11-20557	---
Runway Light Dual Color - White/Green	11-20558	---

EL

LED CABIN LIGHTS

12 Very Bright LEDs in an ABS Housing. 12or 24 Volt; Very low current draw (under 80 mA) Red, White, Blue, and Green LED colors available. Compact Size - Just 3"x2"x1" with side mounting flanges for easy installation. Broad, "flood" lighting distribution. Extremely resistant to vibration, shock and moisture. Ideal for baggage area and utility light illumination.

Light Color	12V	12V Price	24V	24V Price
Red	11-05521	---	11-08404	---
White	11-05522	---	11-08406	---
Blue	11-05524	---	11-08405	---
Green	11-08408	---	11-08407	---

CABIN LIGHTS

Designed for use in experimental aircraft, these LED lights are excellent for cabin lighting, work station lighting, interior lighting, or cargo space illumination. They feature small size (2" x 3"), low power draw (less than 95ma, and weigh less than 3 ounces. the basic module consists of 3 rows of LED's potted with epoxy in a strong plastic housing. This makes it extremely resistant to vibration and moisture. The modules are very efficient, and are available in 12 or 24V and in super bright white or red colors. Furnished with a diffused light pattern and a 3 ft. cable length. No on-off switch.

12V Red LED.....P/N 11-02880 ..... ---

LED MAP LIGHT, DOME, AND BAGGAGE AREA LIGHTS

INTERIOR CONVENIENCE AND MAP LED LIGHTING

Three very bright LEDs in an ABS housing. Compact size, just 2" long. #4 holes for horizontal mountnig. 12 volts, low current draw (under 40 mA). Ideal for map lighting or utility installations.

Red .....P/N 11-05527 ..... ---
Green.....P/N 11-09650 ..... ---

PILOT LIGHT PRO

Pilot Light Pro serves two main functions. It provides hands free panel lighting, as well as map lighting. using the latest in LED technologies it delivers 19 hours of continuous use. Pilot Light Pro is delivered with two AA Procell 1500 batteries installed, and may also optionally be installed using ships power. The internal circuit board will cut off the internal battery source once ships power is turned on. Loss of ships power will return the unit back to it's battery source, leaving you with light to work by in the advent of any problem i.e. loss of alternator.

Blue .....P/N 11-07819 ..... ---
Red.....P/N 11-07836 ..... ---
Green.....P/N 11-07837 ..... ---

DOME AND BAGGAGE AREA LIGHTS

Four (4) very bright LEDs. Compact size, just 1.5" long. #4 mounting holes 12 or 24 volts. "Flood" type wide area lighting. Ideal for map lighting, dome or utility installations. Black or Chrome Base. Chrome Base only comes in White and Red 12V. **For experimental aircraft only**

Case	Light	Volt	Part No.	Price	Volts	Part No.	Price
Black	White	12V	11-09651	---	24V	11-09654	---
Black	Red	12V	---	---	24V	---	---
Black	Green	12V	11-09652	---	24V	---	---
Black	Blue	12V	11-09653	---	24V	11-09656	---
Chrome	Red	12V	11-05526	---	24V	---	---

FLEXIBLE LED LIGHT STRIP GLARE-SHIELD LIGHTING AND DIMMER BY SPT

Superior Panel Technology has developed a brighter, wide-angle LED Light strip for aircraft panel illumination. The 39" LED light strip includes 60 wide-angle white LEDs. The LED light strips are adaptable for both 14V and 28V aircraft can be cut as needed. When on full power, it produces a nice flood light that is amazingly bright and produces enough light to read charts. The LEDs are fully dimmable using the SPT Pulse-Width-Modulation (PWM) dimmer that was specifically designed for the low current draw LEDs.

Description	Part No.	Price
SPT White Light Strip And Dimmer Switch	11-10599	---
SPT White Led Light Strip Dimmer W/O Switch	11-10598	---
SPT White Led Light Strip 14v Or 28v	11-10597	---
SPT Green Light Strip And Dimmer With Switch	11-17261	---
SPT Green Led Light Strip Dimmer W/O Switch	11-17263	---
SPT Green Led Light Strip 14v Or 28v	11-17259	---
SPT Red Light Strip And Dimmer With Switch	11-17260	---
SPT Red Led Light Strip Dimmer W/O Switch	11-17262	---
SPT Red Led Light Strip 12v Or 28v	11-17258	---

INSTRUMENT PANEL LIGHT STRIP

Flexible LED Instrument Lights

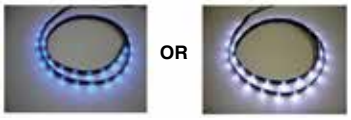
Dimmable LEDs encased in a flexible resin strip. Ideal for mounting under glare shields for instrument panel lighting. Available in White, Red and Blue LEDs. Can be trimmed every 2-1/2 inches (every 3 LEDs). Easy-to-install, waterproof, shockproof and requires no inverter to operate. Draws only 83 mA, 12 volts DC, and has a service life of over 10,000 hours. 35" length, 3/8" width and 1mm high. Installs in minutes with double-sided tape

Description	Part Number	Price
12V LED Light Strip - Red	11-05224	---
12V LED Light Strip - Blue	11-05225	---
12V LED Light Strip - White	11-05226	---
24V LED Light Strip - Red	11-06828	---
24V LED Light Strip - Blue	11-06829	---
24V LED Light Strip - White	11-08409	---

FLEXIBLE LED INSTRUMENT LIGHTS - DUAL COLOR

Dual Color - Red/White

Dual Color - Blue/White



- Dimmable LEDs encased in a flexible resin strip.
- Identical to standard Flexible LED strips but with twice the LEDs.
- Permits independent control of the RED and White or Blue and White colors.
- Ideal for using White lights for loading/unloading or in cloudy conditions and MIX or use of colored lighting during dusk or night conditions.
- 35" length, 3/8" width and 1mm high. Installs in minutes with double-sided tape

Power consumption no greater than 160mA.

Description	Part Number	Price
12V Dual Flexible LED W001-Dual Red	11-05511	---
12V Dual Flexible LED W001-Dual Blue	11-05512	---
24V Dual Flexible LED W001-Dual Red	11-08410	---
24V Dual Flexible LED W001-Dual Blue	11-08411	---

LED INTERIOR DOME LIGHTS

LED Interior Dome Light - 12VDC. 18 or 24 LED Dome light.

18 LED.....P/N 13-15806 ..... ---
24 LED.....P/N 13-15803 ..... ---

LED RAIL LAMPS

2-color Red/White LED lights.

12 inches.....P/N 13-15804 ..... ---
18 inches.....P/N 13-15805 ..... ---

LED WATERPROOF STRIP LIGHTS

LED Waterproof Strip Lights. Cool White LED 12VDC.

4 inches.....P/N 13-15807 ..... ---
6 inches.....P/N 13-15808 ..... ---
8 inches.....P/N 13-15809 ..... ---

EL

MINI EYEBALL LED LIGHTS

Mini Eyeball LED spotlight. Powerful & Dimmable 1 Watt LED. Adjustable eyeball directs light beam at 30 degree angle. Designed for overhead consoles or side panels. Mounts using spring loaded retainers. **Dimensions**: 1.75" diameter - mounts in 1 1/8" diameter hole - depth is just 3/4". Satin black aluminum housing. 12 Volt DC, very low power drain (200mA). 24 Volt DC, very low power drain (240mA) Applications: Overhead panel, sidewall panels or anywhere a compact powerful LED light is needed.

Light	Volts	Part No.	Price	Volts	Part No.	Price
White	12V	11-09271	---	24V	11-09274	---
Red	12V	11-09272	---	24V	11-09276	---
Green	12V	11-09645	---	24V	11-09646	---
Blue	12V	11-09273	---	24V	11-09277	---

MINI LED SPOT LIGHTS

Black/White

• For experimental aircraft • High intensity, dimmable multi-LED lamps• • Easy to install• Flexible pivot mounts • 1.75" length, 1" wide (at lens), 1.75" height (with base)• 160-180 Lumens • 0.15 amps @ 13.8 volts • 12 volts, less than 50mA • Metal housing available in Black or Aluminum • Available in multiple LED color.

Case	Light	Volts	Part No.	Price	Volts	Part No.	Price
Black	White	12V	11-05520	---	24V	11-08772	---
Black	Blue	12V	11-09285	---	24V	11-09289	---
Silver	White	12V	11-05518	---	24V	11-05517	--
Silver	Red	--	--	--	24V	11-10577	---

SURFACE MOUNT LED LIGHTS

Surface mount convenience light. 2 Bright LEDs behind a frosted panel. Surface mount with hardware. Dimensions: 2.5" x 1.25" x 5/8". #6 mounting holes. 12 Volt DC or 24 Volt DC, very low power drain (0.1mA). Applications: foot wells, door panels, side panels, map light, chart lights or anywhere a dimmable, bright LED light is needed.

Light	Volts	Part No.	Price	Volts	Part No.	Price
White	12V	11-09255	---	24V	11-09258	---
Red	12V	11-09256	---	24V	11-09259	---
Green	12V	11-09640	---	24V	11-09641	---
Blue	12V	11-09257	---	24V	11-09261	---

FLUSHMOUNT WATERPROOF LED UTILITY LIGHT

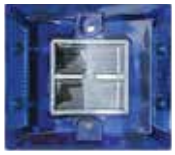
Applications: Side panels, overhead consoles, door panels, exterior application (waterproof)
Features: Bright LED fixtures with ¼ Watt LEDs Powerful & Dimmable, Installs in a 3/4" hole with self-locking nut, Designed for overhead consoles or side panels, Mounts in panels up to 3/4" thickness Dimensions: 1.25" length x 1 ¼" top flange; mounts in 3/4" diameter hole; depth is just 1 1/8"; installed flush height is 1/8" Fresnel lens and clear plastic housing Waterproof and vibration resistant 12 Volt DC, very low power drain (0.1 mA)
12V White .....P/N 11-09278 .....---
12V Red.....P/N 11-09279 .....---
12V Blue .....P/N 11-09280 .....---

LED PANEL MOUNT INDICATORS

Specifications: Mounting Hole Dia: 6.35mm. Forward Current If: 20mA. Forward Voltage: 12V or 24V, your choice. Luminous Intensity:1 0mcd. Viewing Angle: 60°. Bulb Size: 5.08mm. Lens Width: 7. RoHS Compliant: Yes.

Color	Volts	Part No.	Price
Red	24V	11-07839	---
Green	24V	11-07840	---

SOLAR BLUE LED AIRPORT TAXIWAY MARKER



Emits blue LED light from both sides. Poly Carbonate, Poly Crystalline Silicon fixture. Maintenance Free. LED Visibility over 1/2 mile. Nickel Metal Hydride Batteries. Secures to asphalt or concrete w/2 part epoxy. Approximately: 4¾" x 4¾" x ¾". Designed to withstand 20 tons PSI. Built for extreme weather conditions. Three (3) to five (5) year life span, Maintenance FREE Batteries charge in approximately four (4) hours using the suns energy. Operate all night (8 or more hours on a full charge). LED brightness equates to 35 lumens.
Blue BSL05DTW .....P/N 11-09385 ..... ---

SOLAR GREEN LED CENTERLINE TAXIWAY MARKER

Emits green LED light from both sides. Poly Carbonate, Poly Crystalline Silicon. Maintenance Free. LED visibility over 1/2 mile Nickel Metal Hydride Batteries. Secured to asphalt or concrete w/epoxy. Approximately: 4¾" x 4¾" x ¾". Designed to withstand 20 tons PSI. Built for extreme weather conditions. Three (3) to five (5) year life span, Maintenance FREE Batteries charge in approximately four (4) hours using the suns energy. Operate all night (8 or more hours on a full charge). LED brightness equates to 35 lumens.
Green BSL-05DCL .....P/N 11-09394 ..... ---

SOLAR GREEN LED THRESHOLD MARKER

Emits Green/Red LED light. Poly Carbonate, Poly Crystalline Silicon. Maintenance Free LED visibility over 1/2 mile Nickel Metal Hydride Batteries Secures to asphalt or concrete w/epoxy. Approximately: 4¾" x 4¾" x ¾". Designed to withstand 20 tons PSI. Built for extreme weather conditions. Three (3) to five (5) year life span, Maintenance FREE Batteries charge in approximately four (4) hours using the suns energy. Operate all night (8 or more hours on a full charge). LED brightness equates to 35 lumens.
Green BSL-05DTH .....P/N 11-09387 ..... ---

SOLAR WHITE LED AIRPORT EDGE MARKER

Emits White LED light from both sides. Poly Carbonate, Poly Crystalline Silicon. Maintenance Free. LED visibility over 1/2 mil. Nickel Metal Hydride Batteries. Secured with 2 part epoxy Approximately: 4¾" x 4¾" x ¾". Designed to withstand 20 tons PSI. Built for extreme weather conditions. Three (3) to five (5) year life span, Maintenance FREE Batteries charge in approximately four (4) hours using the suns energy. Operate all night (8 or more hours on a full charge). LED brightness equates to 35 lumens.
White BSL-05DEL .....P/N 11-09386 ..... ---

SOLAR RED LED AIRPORT OBSTRUCTION MARKER

Emits Red LED light from one single side. Poly Carbonate, Poly Crystalline Silicon. Maintenance Free Nickel Metal Hydride Batteries. Secures with 2 part epoxy. Approximately: 4" x 4" X ¾". Designed to withstand 20 tons PSI. Built for extreme weather conditions. Three (3) to five (5) year life span, Maintenance FREE Batteries charge in approximately four (4) hours using the suns energy. Operate all night (8 or more hours on a full charge). LED brightness equates to 35 lumens.
Red BSL03AOM .....P/N 11-09389 ..... ---

SOLAR LED BEACON MARKER RED

Emits light from all sides. Poly Crystalline Silicon, ABS Plastic. Super Bright Red LED light. Mounted to post or pipe. Approximately: 9" circumference x 6" height. Designed to withstand 20 tons PSI. Built for extreme weather conditions. Three (3) to five (5) year life span, Maintenance FREE Batteries charge in approximately four (4) hours using the suns energy. Operate all night (8 or more hours on a full charge). LED brightness equates to 35 lumens.
Red Beacon VRH-4704 .....P/N 11-09384 ..... ---

RUNWAY MARKER ADHESIVE PADS

The Adhesive Epoxy Pads are a non toxic, zero V.O.C., performance thermoplastic adhesive designed to adhere raised pavement markers to the concrete or asphalt surface. When heated with a propane heat torch, a Pad liquefies and fuses with the surface and the marker providing a bond that will last throughout the marker's lifetime. Size: 5" x 5".
P/N 13-10451 ..... ---

EL

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SOLID STATE LIGHT DIMMING KIT

Economical solution for the dimming of aircraft interior lighting. This heavy-duty solid state dimming kit by Superior Panel Technology includes a potentiometer with built-in off switch and 115W power transistor mounted to a heat sink. The supplied colored Mil Spec wire and very easy to follow wiring diagram allows the aircraft builder to customize the wiring harness to fit individual needs. When compared to rheostats, this unit provides more even dimming when a combination of LEDs, incandescent bulbs and electroluminescent lamps (such as SPT's Glow Strips) are used. Appropriate for both 14V and 28V systems.

Knob sold separately.....P/N 11-00846 ..... ---
Control Knob .....P/N 11-07344 ..... ---

LC-40E/LC-40 LIGHTING CONTROLLERS

The LC-40e comes in an anodized brushed aluminum chassis. Features extra control knob sensitivity at dim end of the lighting range where it is needed most. It is microcontroller controlled and has continuous over voltage, current limit & fault protection. Each channel can handle 1.5 amps. LC-40E

P/N 11-03366 ..... ---

LC-50 LIGHTING CONTROLLER

• Rate and Offset adjustments for each channel allows exact matching of dimming behavior of each channel. • Multiple channels can then be joined and controlled by a single knob.• Two Analog outputs for dimming these devices:
• Garmin LCD Displays G3X, G900X, etc.
• Garmin 400/500/600/700 series Radios
• Garmin GTX 327/330 Transponders
• Garmin GMA 347 Audio Panel
• Tru-Trak ADI Pilot
• Tru-Trak Pictorial Pilot
• Newer PS Engineering Audio Panels.....P/N 10-06621 ..... ---

PWM DIMMER BY SPT

Superior Panel Technology has developed three new, compact solid state Pulse-Width-Modulation (PWM) dimmers to meet all aircraft dimming needs.

They are extremely easy to install (one terminal screw for power in, one for ground and the third for power out), minimal heat dissipation, and by choosing the right dimmer (EL/LED Dimmer, Heavy Duty or Extreme Heavy Duty) you avoid the "dimming steps" in brightness often found in other PWM dimmers.

The EL/LED Dimmer would be used for LED's and electroluminescent lighting such as SPT's Glow Strips. The Heavy Duty dimmer can handle up to 100 watts. The Extreme Power can be used for up to 400 watt @28V or 200 watt @14V. These dimmers have the smallest footprint on the market for a PWM dimmer with a switch.

Description	Part No.	Price
LED/EL Dimmer with Off Switch	11-10603	---
LED/EL Dimmer without Off Switch	11-10604	---
Heavy Duty Dimmer with Off Switch	11-10606	---
Heavy Duty Dimmer without Off Switch	11-10608	---
EXTREME DUTY Dimmer without Off Switch (Only Availablewith out)	11-10612	---

CRAZEDPILOT LED LIGHTING FLEXIBLE WATERPROOF STRIP

This flexible 15 ft LED Lighting strip is powered by 12volts, is adhesive backed and waterproof - allowing you to install it in any location you want light to glow. This LED Lighting strip can be powered directly with 12v as a light source for footwells, dome lighting, passenger areas, etc. LED Lighting comes in Red, White, and Blue with a black flexible PC Board technology, and clear silicone-based flexible covering.....P/N 11-14143 ..... ---

VAL AVIONICS CLA 500 COCKPIT LIGHTING ASSEMBLY

The CLA 500 is a Multiple Circuit, Solid State Cockpit Lighting Assembly that will accommodate (4) independent dimmer lighting circuits such as instruments, sub panels, avionics, eyebrow, overhead, flood, and post lamps etc. The CLA 500 unit itself measures 5"l x 4.7"w x 1.5"h; wt: 0.8 lbs. The unit is rated at 14/28VDC input at 2.5 amps max per circuit. The CLA 500 comes complete with 4 on/off dimmer control switches and connector assembly. The CLA 500 carries a full 1 yr factory warranty. **Not TSO'D**

14V .....P/N 11-05700 ..... ---
28V .....P/N 11-04592 ..... ---

COCKPIT LIGHTS

TYPE C4A - A multi-purpose light providing narrow spotlight or floodlight beam. Rotate dial for red or white lens. Push-button for instant full light. Adjustable rheostat. Coiled cord & snap-in mounting base makes light portable in cockpit area. New mfg. Most suitable for larger aircraft.

12V.....P/N 11-03921 ..... ---
24V.....P/N 11-03922 ..... ---

EYEBALL COCKPIT LIGHTS

These high quality cockpit lights are engineered to match the eyeball swivel vents on the page on Air Vents in this catalog. Simple twist on/off operation provides white beam for cockpit lighting. Made from 2024T351 aluminum. Diameter: 2.75". Has 4 mounting holes (1/8"dia.) which are spaced 2-3/8" apart on a mounting plate with a thickness of .71". Made in USA.

Order 14V or 28V bulb separately

Black (no bulb) .....P/N 05-01401 ..... ---
Gray (no bulb) .....P/N 05-01402 ..... ---
28V.....P/N 11-04172 ..... ---

BRITTA LEGACY POST LIGHT LED REPLACEMENTS

Designed to illuminate instruments and instrument panels. Mounts directly through instrument mounting holes and includes hardware and color coded (red/black) connection wires. Available is 12V or 24V, Cool white or Red LED. Easy to install.

12V White .....P/N 11-20174 ..... ---
12V Red.....P/N 11-20170 ..... ---
24V White .....P/N 11-20175 ..... ---
24V Red.....P/N 11-20171 ..... ---

PANEL POST LIGHT

Panel Post Light. Compact design, just 3/4" x 1/2" (6mm shaft diameter). 2 super-bright LEDs. Ideal for panel lighting or map lighting.

12V White.....P/N 13-15801 ..... ---
12V Red .....P/N 13-15816 ..... ---
12V Green.....P/N 13-22027 ..... ---
12V Blue.....P/N 13-22028 ..... ---
12V Amber .....P/N 13-22030 ..... ---
24V White.....P/N 13-15802 ..... ---
24V Red .....P/N 13-15817 ..... ---
24V Green.....P/N 13-22029 ..... ---

LED TASK LIGHT MODULE 24V WHITE

The LED task light features a rain and brake light, two separate functions in the same package. The LED task light module has a high flash rate which is important in attracting attention in low visiblitity conditions. This is a three wire unit with wires for Brake, Rain and battery negative. It uses LOW power, so minimal that you can power it from a single 9 volt battery. Operating voltage range 5vdc to 18vdc.

Dimensions: 2.7"x2.5"x0.89".....P/N 11-02881 ..... ---

MINI GOOSENECK LAMP

This mini gooseneck lamp is a versatile, flexible-shaft lamp designed as a map light, chart light, and panel light. The flexible shaft permits the lamp to stand-off and illuminate a larger panel surface, or double as a flexible chart light or map light. When mounted on instrument panels or consoles, the lamp provides a bright and directional lighting source. The 1/4" shaft is flexible yet rigid enough to retain its shape during use.

Length	Color/Volts	Part No.	Price
5-7/8	Red 12V	11-14112	---
	Red 24V	11-14116	---
	White 12V	11-14114	---
	White 24V	11-14118	---
10-1/2	Red 12V	11-14113	---
	Red 24V	11-14117	---
	White 12V	11-14115	---
	White 24V	11-14119	---

EL

4-CHANNEL LED DIMMER

Easy-to-install, 7 Amps per channel. High quality knobs and wiring kit with stand-offs. 12VDC. Control up to Four (4) different LED or Incandescent light circuits independently.

P/N 13-15799 ..... ---

PANEL LIGHT DIMMING RHEOSTATS

These high-quality rheostats are used in production aircraft to dim instrument panel lights. Size: 1-9/16" dia. x 2-1/4" long. Mounts in 3/8" dia. panel hole. Shaft is 1/4" dia. w/flat for knob set screw. New manufacture. Power Rating: 25 Watts.

0-8 OHM.....P/N 0144 ..... ---

0-15 OHM.....P/N 0146 ..... ---

FINGER GRIP KNOB

Finger grip knob for panel light dimming rheostat (see accessory). 1 1/2" Diameter, 1/4" Hole.

P/N 11-07967 ..... ---

MULTIPLE CIRCUIT SOLID STATE LIGHT DIMMERS

Choose from 2, 3, or 4-circuit heavy-duty 115W light dimming systems by Superior Panel Technology. Circuit board design with pin connector allows for easy and neat wiring. Mil Spec Tefzel color-coded wire is included. Unlike rheostats, this system will provide even dimming of incandescent lights, electroluminescent lamps (such as the SPT Glow Strips) and LEDS when used in combination on the same circuit. A separate control switch (with circuit breaking off position) is included for each circuit. Knobs sold separately. For 12 or 24 volt as long as there have been no modifications.

Description	Part Number	Price
2 Circuit	11-02046	---
3 Circuit	11-02047	---
4 Circuit	11-02049	---
Control Knob	11-07344	---

K11 AIRCRAFT PANEL DIMMER

Features: • 3 outputs with a tracking capability - One output is the "Master", and the other two can be set to track the master from 0 to any set voltage behind the master. This allows items on the dimmer bus to be grouped according to their relative brightness. Photocell light sensor automatic control capability • Low cost • Performance: • Voltage range: 0 to Input supply - .6V • Output current - Depends on ventilation - Each channel is capable of 5 amps, practical dissipation limitation is ~ 5 amps total for all channels. (For 28 volt systems, current limit is 1 A per channel) Unit connections are made through a DB15 connector, and are easy to integrate into the rest of the aircraft wiring. .....P/N 11-02244 ..... ---

MICROPULSE LANDING LIGHT CONTROL

This Micropulse Landing Light Control has 12 to 35 VDC, 0-8 A per channel, Control over 224 Watts per channel in a .9" Inch square by 1.9" Package. Complete compact, light weight, powerful, solid state Landing light controller. The MicroPulse has all the functions you should need.

MicroPulse Function Modes: Switch Positions: • OFF Both Circuits Off • L Left on only (CKT1) • R Right on only (CKT2) • L&R Both circuits On • A44 Alternate 44 PPM (STD) • B44 Both Flash 44 PPM • A88 Alternate 88 PPM • A120 Alternate 120 PPM. Capacity: • 96 Watts @12 VDC each channel • 224 Watts @28 VDC each channel.

P/N 11-11886 ..... ---

MAX DIM DIMMER CONTROL UNIT

5-35 VDC 0-12.5A Control 350 Watts in a 1-1/4" Diameter package. Complete compact, light weight, powerful, solid state dimmer. Great for light wedges. FAA STC Approved. PMA'd . Features: • Aircraft Lighting Boat Cruiser Cabins. • Instrument Panels. •Hundreds of DC Lighting Control applications.

P/N 11-05738 ..... ---

MAXPULSE LANDING LIGHT CONTROL/ PULSER - (STC'D)

Extreme long life, low temperature operation, high current capability, noise free operation and small size makes it a ideal landing light controller for all aircraft. This new STC version sports eight functional pulse, flash and steady state modes of operation. It is also an ideal replacement for old technology controllers requiring large heavy heat sinks and or noisy relays as part of the installation. STC'd.....P/N 11-06998 ..... ---

MAXPULSE LANDING LIGHT CONTROLLER MODEL - B

12-35 volts @ 10 Amps per channel - 2 channels, Ring Connectors, Controlled Output: 0 to 12-35 VDC , 0 to 10 A per channel. No outboard heat sinks, rheostats, or other packages. STC, PMA, RTCA/DO-160E SEC 21: qualified. Configure for Wig Wag or Wing and taxi light pulsing, single light pulsing etc. Increased safety for your passengers and yourself. Hundreds of DC Lighting Applications. Emergency Vehicles. Assembled in the USA.....P/N 11-08175 ..... ---

MAXDIM DIMMER CONTROLLER MODEL - B

Specifications: 5-35 volts @ 15 Amps. Ring Connectors. Controlled Output:. 0 to 5-35 VDC - 0 to 15 A **Capacity**: 75 Watts @5 VDC. 180 Watts @12 VDC. 360 Watts @24 VDC. 420 Watts @28 VDC. 700 Watts @35 VDC Includes: MaxDim unit, installation instructions, color coded terminals, reference panel label, STC printout for your logs, installation template, and knob.....P/N 11-08176 ..... ---

MAXDIM DUO DUAL DIMMER CONTROLLER MODEL - C

12 to 35 VDC, 0-15 A per channel, Control 1050 Watts In a 1-1/4 Inch Diameter Package. Complete compact, light weight, powerful, solid state dimmer. Model C accepts spade terminals.

P/N 11-12421 ..... ---

MAXDIM DUO DUAL DIMMER CONTROLLER MODEL - D

12 to 35 VDC, 0-15 A per channel, Control 1050 Watts In a 1-1/4 Inch Diameter Package. Complete compact, light weight, powerful, solid state dimmer. Accepts ring terminals .....P/N 11-08177 ..... ---

For Complete info on Dimmers and MaxDim Mini Control Units please visit our website at www.aircraftspruce.com

MICRODIM DUAL DIMMER

5 to 35 VDC, 0-7.5 A per channel, Control over 224 Watts per channel in a .9" Inch square by 1.9" Package. Complete compact, light weight, powerful, solid state Dimmer and switch controller.

Microdim Dual Dimmer Revision SWP has all the functions you will need. Dimming on one channel and switching on channel 2 for the position lights/navigation lighting is activated any time there is output on the dimming channel. .....P/N 11-11887 ..... ---

MICRODIM SINGLE CHANNEL DIMMERS

5 to 35 VDC, 0-7.5 A per channel, Control over 210 Watts In a 0.9" Inch square by 1.9" Package. Complete compact, light weight, powerful, solid state PWM dimmer. Sized for those tight panels with smaller dimensions and depth of 1.9.

Applications and features: • SINGLE CHANNEL control of aircraft Lighting • Aircraft instrument panel lighting • Excellent control of Nulite instrument lighting • LED PWM dimmer, low range enhanced • RTCA/DO-160E SEC 21: RFE Qualified • Instrument Panels • Nulite dimmers • UMA dimmer • LED Glare shields, overheads • Avion Glare shield dimmer • LED lit panels • Hundreds of DC Lighting Control applications • Assembled in the USA

SINGLE

LED 6 mm Bushing	11-15244	---
LED 11 mm Bushing	11-15246	---
Incandecent 6 mm Bushing	11-11191	---
Incandecent 11 mm Bushing	11-15245	---

DUAL

Incandecent Only 6 mm Bushing	11-11192	---
Incandecent Only 11 mm Bushing	11-15249	---
Incandecent Only 6 mm Bushing	11-15248	---
Incandecent Only 11 mm Bushing	11-15250	---

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

UMA INSTRUMENT LIGHTING - PMA'D

The UMA EL Light Bezel System replaces instrument post-lights, provides a uniform light around the dial of each instrument using a solid-state electro-luminescent element rather than a incandescent bulb. The bezels have a design life of 5,000 operating hours. The system consists of a bezel or "wedge", DC to AC inverter, and a connector kit. The bezel fits over the instrument face, and is available in a variety of configurations to accommodate various adjusting knobs. The bezel mounts either between the instrument face and the panel, or between the panel and the overlay. The bezel is held in place by the instrument mounting screws. The DC to AC inverter provides power for as many as 12 bezels or about 25 sq. inches of lighting. To facilitate installation and maintenance a connector kit is supplied with each bezel. Colors are White, Aviation Green, and red, **with white being the only FAA approved color.** The PMA is based on a STC for Beechcraft King Air 90s. To assist you in filing a FAA form 337, the approved data package used for the King Air installation is available from UMA, or can be downloaded on or website. Copies of previously issued 337s are available upon request.
* Inverter is required. Must be ordered separately.

Model No.	Size	Cut-Out	Light	Part No.	Price
2-30-W	3-1/8"	Single (Left Or Right)	White	10-00794	---
2-30-G	3-1/8"	Single (Left Or Right)	Green	10-02089	---
2-30-R	3-1/8"	Single (Left Or Right)	Red	2-30-R	---
2-31-W	3-1/8"	None	White	2-31-W	---
2-31-G	3-1/8"	None	Green	10-02090	---
2-31-R	3-1/8"	None	Red	2-31-R	---
2-33-W	3-1/8"	Center	White	2-33-W	---
2-33-G	3-1/8"	Center	Green	10-02091	---
2-33-R	3-1/8"	Center	Red	2-33-R	---
2-34-W	3-1/8"	Double	White	2-34-W	---
2-34-G	3-1/8"	Double	Green	10-02092	---
2-34-R	3-1/8"	Double	Red	2-34-R	---
2-35-W	3-1/8"	None W/Undercut for VSI	White	11-02095	---
2-20-W	2-1/4"	Single (Left Or Right)	White	10-00792	---
2-20-G	2-1/4"	Single (Left Or Right)	Green	10-02087	---
2-20-R	2-1/4"	Single (Left Or Right)	Red	2-20-R	---
2-21-W	2-1/4"	None	White	2-21-W	---
2-21-G	2-1/4"	None	Green	10-02088	---
2-21-R	2-1/4"	None	Red	10-00793	---

INVERTERS FOR UMA LIGHTING -
14V .....P/N 10-02083 ..... ---
28V .....P/N 10-00986 ..... ---
Each inverter will run up to 12 lighting wedges.
Rheostat .....P/N 6002 ..... ---
Elec. Wire Kit* .....P/N 10-02085 ..... ---
***Contains AMP connector and connecting pins**

UMA ELECTRO-LUMINESCENT LIGHT STRIPS

UMA, Inc. now offers an ultra-thin (0.006") flexible self-adhesive long-life light strip based on the same technology that is used in our EL Light Bezel. Since there is no filament, these light strips are not bothered by vibration or rapid changes in temperature. Perfect for use under a glare shield, or for any other interior lighting need (both aircraft and automotive). Length may be cut as needed. Available colors are Aviation Green & White/Blue. Power Inverter required.

Dimensions	Color	Part No.	Price
0.5"W x 25"L	White/Blue	10-00321	---
0.5"W x 25"L	Aviation Green	10-00322	---
1.5"W x 18"L	White/Blue	10-00323	---
1.5"W x 18"L	Aviation Green	10-00324	---

CRAZEDPILOT LED LIGHTING FLEXIBLE WATERPROOF STRIPS

This flexible 15 ft LED Lighting strip is powered by 12volts, is adhesive backed and waterproof - allowing you to install it in any location you want light to glow. This LED Lighting strip can be powered directly with 12v as a light source for footwells, dome lighting, passenger areas, etc. LED Lighting comes in Red, White, and Blue with a black flexible PC Board technology, and clear silicone-based flexible covering.
Red .....P/N 11-14143 ..... ---
White .....P/N 11-14144 ..... ---

FIBERLITE INSTRUMENT LIGHTING SYSTEM

FiberLites, by Superior Panel Techno-logy, offer an innovative instrument lighting system that uses fiber optics to evenly illuminate aircraft instruments with easily accessible, long lasting, LED light sources. Select up to 8 of any Bezel combination of 3-1/8", **3-1/8" with cut-out (DG,VSI,ALT) and 2-1/4" instruments light bezels. **The FL318CO has a cut-out in one corner. Use this for directional gyros, altimeters, vertical speed indicators and other Instruments with corner knobs. Use the standard FL318 for the attitude indicator. The FiberLite package includes 3 LEDs which can light up 12 instruments. The FiberLite Instrument Light Bezels are FAA approved for certified aircraft. Look in the document section for the Approved Make and Model List. If your aircraft is not on the list then you would need a 337.
Aircraft spruce and spt have worked together to offer a discount on the fiberlites and pwm dimmer when ordered as a package.
Instrument Package -without dimmer .....P/N 11-04009 ..... ---
FiberLite Instrument Package with PWM dimmer with built in circuit-breaking off switch .....P/N 11-10601 ..... ---

Individual Parts Pricing:
2-1/4" inst. .....P/N 11-04000 ..... ---
3-1/8" inst. .....P/N 11-04002 ..... ---
3-1/8" inst w/cut out (DG, VSI, ALT) .....P/N 11-04003 ..... ---
14V LED Light Source.....P/N 11-03999 ..... ---
28V LED Light Source.....P/N 11-07838 ..... ---
LED EL Dimmer with off switch.....P/N 11-10603 ..... ---
LED EL Dimmer without off switch.....P/N 11-10604 ..... ---
LED Heavy Duty Dimmer with off switch ....P/N 11-10606 ..... ---
LED Heavy Duty Dimmer without off switch.P/N 11-10608 ..... ---

SEALED BEAM LAMPS

Sealed Beam Lamps

Lamp No.	Lamp Type	Volts	Watts	Part Number	Price
4551	Aircraft Taxi Light PAR46 Sealed Beam	28V	250W	11-19737	---
4554	Aircraft Taxi Light PAR46 Sealed Beam	28V	450W	11-19738	---
4557	Aircraft Landing Light PAR64 Sealed Beam	28V	1000W	11-19739	---
4559	Aircraft Landing Light PAR64 Sealed Beam	28V	600W	11-19740	---
4572	Aircraft Landing Light PAR36 Sealed Beam	28V	60W	11-19741	---
4593	Aircraft Light PAR36 Sealed Beam	28V	50W	11-19742	---
4594	Aircraft Navigation Light PAR36 Sealed Beam	28V	100W	11-19743	---
4626	Aircraft Taxiing Light PAR36 Sealed Beam	28V	150W	11-19744	---
4635	Aircraft Landing Light PAR46 Sealed Beam	16.5V	450W	11-19745	---
5557	Aircraft Landing/Taxi Lamp PAR64 Aircraft Light Bulb	28V	100W	11-19746	---
Q4554	Taxi Lamp PAR46 Sealed Beam	28V	450W	11-19747	---
Q4559X	Landing Light PAR64 Sealed Beam	28V	600W	11-19748	---
Q4566	Taxi Lamp PAR46 Sealed Beam	28V	450W	11-19749	---
Q4567	Landing Lamp PAR46 Sealed Beam	28V	250W	11-19750	---
Q4597	Aircraft Lamp PAR46	28V	450W	11-19751	---
Q4598	Aircraft Lamp PAR46	28V	250W	11-19752	---
Q4631	Logo Lamp PAR36 Sealed Beam	13V	250W	11-19753	---
Q4632	Logo Light PAR36 Sealed Beam	13V	250W	11-19754	---
Q4681	Aircraft Lamp PAR46 Sealed Beam	28V	450W	11-19755	---
Q5551	Taxi Lamp PAR46	-	250W	11-19756	---
Q5554	Taxi Light PAR46 Sealed Beam	28V	450W	11-19757	---
Q5559	Sealed Beam PAR64	28V	600W	11-19758	---
Q5596	Sealed Beam PAR36	28V	250W	11-19759	---

PILOT LIGHTS - INSTRUMENT LIGHTING

NULITE INSTRUMENT LIGHTING SYSTEM

Replace your existing lighting system of post lights or indirect lighting using the latest technological developed in optical enhancements. The NULITE uses dual incandescent bulbs with a rated life of 10,000 hours in a translucent material designed to look like an internally lighted unit. Nulites are easily installed by anyone in just minutes and are pre-cut to fit all standard instruments operating on 14, or 28 Volts. NULITE light wedges can be installed over the instrument or between the panel and the instrument. One wire is connected to ground and the other to a dimmable buss. Installation takes about 30 minutes for each unit and does not require any special tooling. The instrument is not altered in any way therefore only a log book entry is required. FAA/PMA approved.

Will not work with DC to AC inverted systems

Volts	Description	Model No.	Part No.	Price
14v	2-1/4" No Cutout	LW2014	11-03851	---
14v	2-1/4" with Left Cutout	LW2014A	11-01257	---
14v	2-1/4" with Right Cutout	LW2014B	11-04373	---
14v	3-1/8" No Cutout	LW3014	11-02572	---
14v	3-1/8" with Left Cutout	LW3014A	11-02673	---
14v	3-1/8" with Right Cutout	LW3014B	11-02574	---
14v	3-1/8" with Left + Right Cutout	LW3014AB	11-00818	---
14v	3-1/8" for Altimeters	LW3014AA	11-02573	---
14v	3-1/8" for VSI	LW3014V	11-01099	---
28v	2-1/4" No Cutout	LW2028	11-02571	---
28v	2-1/4" with Left Cutout	LW2028A	11-04374	---
28v	2-1/4" with Right Cutout	LW2028B	11-04375	---
28v	3-1/8" No Cutout	LW3028	11-03852	---
28v	3-1/8" with Left Cutout	LW3028A	11-02762	---
28v	3-1/8" with Right Cutout	LW3028B	11-03853	---
28v	3-1/8" with Left + Right Cutout	LW3028AB	11-01352	---
28v	3-1/8" for Altimeters	LW3028AA	11-02851	---
28v	3-1/8" for VSI	LW3028V	11-01230	---
28v	Replacement Bulb	LIGHTBAR-28	11-18998	---

NULITE NV6 LIGHTING

Features: • Daytime Readability: Because Nulites utilitze an open ring bezel, there are no daytime readability issues • Ease of Installation: A typical aircraft installation takes approximately 8 hours and can be done in the field by an A&P mechanic • Color Shifting: Nulites uses NVIS White Technology that does not shift any color and illuminates what is on the instrument • Upgrades the Panel Not The Instrument: Nulite nvg does not alter the instrument in any way and reduces the need for rotables • Lower Cost: A Nulite nvg conversion cost a third of what traditional filtered conversions cost • Reduce Training Time: With an open ring bezel, there is no need for additional training for Daytime Operations. **Specifications**: • NVIS White long lasting LED • Pulse type dimming circuit • 28 volt systems with lower power consumption (40ma average per unit) • Nulites are FAA approved and STC's are available, •.220" thick and tight tolerances of .005" • Meets all FAR burn tests • NVIS radiance per MIL-STD-3009

White Light 28V 3-1/8" Round .....P/N 11-08774 ..... ---
White Light 28V 3-1/8" Left Cutout .....P/N 11-08775 ..... ---
White Light 28V3-1/8" Altimeter Cutout .....P/N 11-08776 ..... ---
White Light 28V Left & Right Cutout.....P/N 11-08777 ..... ---
White Light 28V 3-1/8" Right Cutout.....P/N 11-08778 ..... ---
White Light 28V 3-1/8" VSI Cutout .....P/N 11-08779 ..... ---
White Light 28V 2-1/4" Round .....P/N 11-08780 ..... ---
White Light 28V 2-1/4" Left Cutout .....P/N 11-08781 ..... ---
White Light 28V2-1/4" Right Cutout.....P/N 11-08782 ..... ---

NULITE LED INSTRUMENT LIGHT BUNDLES

This LED light wedge and dimmer starter kit from Nulite includes two (2), 3-1/8-inch LW3034 and one (1), 3-1/8 inch LW3034AA light wedges, plus one (1) MaxDim 9100-001-A Dimmer controller from Seaton Engineering and operates on 14 volts. Nulite LED aircraft instrument lights use bright, long-lasting LEDs inside of a special bezel that focuses light toward the instrument, rather than toward the pilot's eyes. The MaxDim Dual controller from Seaton Engineering is the perfect option for controlling lighting and instrument panels in new or existing aircraft.

14V LED Bundle .....P/N 11-13951 ..... ---
28V LED Bundle .....P/N 11-13956 ..... ---
14V LED Dual Bundle.....P/N 11-13957 ..... ---
28V LED Dual Bundle.....P/N 11-13958 ..... ---

GLOW STRIPS - GLARE SHIELD LIGHTING

Superior Panel Technology has developed a brighter, more uniform and longer lasting Glare Shield lighting system. The 18" x 1" Glow Strip electroluminescent lamps provide a beautiful fluorescent-like aviation green or a white light output. The ultra-thin lamps (.065 including the adhesive backing) are very flexible and conform to the curves of the underside of the glare shield. The Glow Strips meet the FAA 23.853 burn test. Inverters ARE included with the kit. A solid state dimmer and battery back-up system is available and recommended (see part numbers below).

Green		
Description	**Part No.**	**Price**
Single Glow Strip 14V No Dimmer	11-00847	---
Two Glow Strip 14V No Dimmer	11-00848	---
Two Glow Strip 28V No Dimmer	11-00849	---
Single Glow Strip 14V Dimmer with Switch (Recommended)	11-10617	---
Single Glow Strip 14V Dimmer without Switch	11-10613	---
Single Glow Strip 28V Dimmer with Switch (Recommended)	11-17533	---
Single Glow Strip 28V Dimmer without Switch	11-17532	---
Single Glow Strip 28V No Dimmer	11-17531	---
Two Glow Strip 14V Dimmer with Switch (Recommended)	11-10618	---
Two Glow Strip 14V Dimmer without Switch	11-10614	---
Two Glow Strip 28V Dimmer with Switch (Recommended)	11-10619	---
Two Glow Strip 28V Dimmer without Switch	11-10616	---
White		
Description	**Part No.**	**Price**
Single Glow Strip 14V No Dimmer	11-10525	---
Two Glow Strip 14V No Dimmer	11-10528	---
Two Glow Strip 28V No Dimmer	11-10529	---
Single Glow Strip 14V Dimmer with Switch (Recommended)	11-10633	---
Single Glow Strip 14V Dimmer without Switch	11-10624	---
Single Glow Strip 28V Dimmer with Switch (Recommended)	11-17536	---
Single Glow Strip 28V Dimmer without Switch	11-17535	---
Single Glow Strip 28V No Dimmer	11-17534	---
Two Glow Strip 14V Dimmer with Switch (Recommended)	11-10634	---
Two Glow Strip 14V Dimmer without Switch	11-10622	---
Two Glow Strip 28V Dimmer with Switch (Recommended)	11-10636	---
Two Glow Strip 28V Dimmer without Switch	11-10626	---

Accessories

Solid State Dimmer .....P/N 11-00846 ..... ---

NULITE INSTRUMENT LED LIGHTING SYSTEMS

NULITEs are a revolutionary lighting system for aircraft instruments. They give the same lighting appearance as internal lighting kits at a fraction of the cost. NULITEs have a special bezel that focus light toward the instrument, preventing light from reflecting into the pilot's eyes. When sandwiched between the instrument and panel, NULITEs reduce glare and "hotspots" by concentrating 60% of the light on the upper half of the instrument.

Volts	Description	Model No.	Part No.	Price
14v	2-1/4" LED round	LW2034	11-13932	---
14v	2-1/4" LED with Left Cutout	LW2034A	11-13933	---
14v	2-1/4" LED with Right Cutout	LW2034B	11-13934	---
14v	3-1/8" LED round	LW3034	11-13935	---
14v	3-1/8" LED with Left Cutout	LW3034A	11-13936	---
14v	3-1/8" LED Altimeter Cutout	LW3034AA	11-13937	---
14v	3-1/8" LED with Left + Right Cutout	LW3034AB	11-13938	---
14v	3-1/8" LED with Right Cutout	LW3034B	11-13939	---
14v	3-1/8" LED for VSI Cutout	LW3034V	11-13940	---
28v	2-1/4" LED round	LW2038	11-13941	---
28v	2-1/4" LED with Left Cutout	LW2038A	11-13942	---
28v	2-1/4" LED with Right Cutout	LW2038B	11-13943	---
28v	3-1/8" LED round	LW3038	11-13944	---
28v	3-1/8" LED with Left Cutout	LW3038A	11-13945	---
28v	3-1/8" LED Altimeter Cutout	LW3038AA	11-13946	---
28v	3-1/8" LED with Left + Right Cutout	LW3038AB	11-13947	---
28v	3-1/8" LED with Right Cutout	LW3038B	11-13948	---
28v	3-1/8" LED for VSI Cutout	LW3038V	11-13949	---

EL

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

LIGHTSAVER

The Lightsaver prevents this massive inrush allowing the filament to draw the rated current even at turn on with no change in typical light output performance. The filament life increases up to 10 times due to reducing the stress induced by inrush current. This is something the lamp manufacturers don't want you to know. After all they are in the business of manufacturing replacement lamps for your aircraft. Installation is simple.

Description	Part No.	Price
24 V 100W	11-07317	---
24 V 150W	11-07318	---

PANEL INDICATOR LAMPS

Screw-in terminals, easy retrofit installation. 12mm 12V LED, dimmable, no resistor required. Model: Pilot-12mm-Series

Color	Part No.	Price
White	13-15811	---
Red	13-15812	---
Green	13-15813	---
Blue	13-15814	---
Yellow	13-15815	---

FIBER-OPTIC PANEL BACKLIGHTING KIT

Backlight the lettering on reverse engraved panels using FiberLites fiber-optic panels. The panels can be cut to width and normally one fiber-optic panel can illuminate all the text for switches and breakers on a panel. The fiber-optic panels are 3" x 8.5" and come with the needed connectors and three LEDS (either green or white). The panels can also be used as mini flood lights over breakers and switches.

Fiber-Optic Back Light Kit Green.....P/N 11-08561 ..... ---
Fiber-Optic Back Light Kit White.....P/N 11-08562 ..... ---

SR 10 INCH SPOT LANDING LIGHT NON TSO

• Landing • 4x4x14 • 2.1lb • 35 Watts 2.4 AMP Draw • 10 LEDs • 3400 Raw Lumens • 676 Lux at 10m • 603.3 Beam Distance • 91000 Peak Beam Intensity.

Black.....P/N 11-11223 ..... ---

SR SPECTOR 10 INCH LANDING / TAXI LIGHT NON TSO

• Landing • 4x4x14 • 2.1lb • 53 Watts 3.7 AMP Draw • 15 LEDs • 5100 Raw Lumens • 345 Lux at 10m • 364.4 Beam Distance • 33200 Peak Beam Intensity.

Black.....P/N 11-11224 ..... ---

HYBRID SR-Q SPOT LANDING

• Landing • 1 lb. • 20 Watts 14.45 AMP Draw • 4 LEDs • 1360 Raw Lumens • 151.1 Lux at 10m • 246 Beam Distance • 15111 Peak Beam Intensity.

White.....P/N 11-14954 ..... ---

AML Q-4509 LED PAR 36 LANDING / TAXI LIGHT

LED Q4509(Non-Polarity Applicable from 9V-36V), approximately 15,000 lab life hours, specialized structure for heat emission. High brightness (960LM) at low temperature: The temperature of lamp housing stays under 50°C even after continuous lighting for two hours. Non-polarity , applicable from 9V~36V. 15,000 lab life hours.

P/N 11-11513 ..... ---

NORMAN LAMP 4572

Since 1985 Norman Lamps, a U.S. based corporation, has been a valued supplier of certified aircraft lamps to the U.S. Defense Department (DOD), Naval Air Systems Command (NAV-AIR), and the Federal Aviation Administration (FAA).

Specifications:
• Lamp No.: 4572 • Voltage: 28V • Wattage: 60W • Type: PAR36 Sealed Beam • Base Type: Screw Terminal Base • Life Hours: 800 • Length: 2.75 in. • Candela: 2,000 .....P/N 08-17132 ..... ---

LEADING EDGE LANDING LIGHT KIT

Kit consists of (2) GE #4509 12V, 100W sealed beam lamps, brackets for installation, switch, switch plate, 60 ft. of 2-conductor hookup wire & instructions. Size: 4.5"hx5.25"w x2.25"d w/ bulbs installed.

Complete Kit.....P/N 11-08000 ..... ---
Replacement #4509 Bulbs.....P/N 11-03796 ..... ---
Switch Plate only.....P/N 11-14900 ..... ---

SR-M2 LANDING / TAXI NON TSO

Single row mini with Rigid patented optical system. Light weight at just 7.0 ounces with hardware.

Specifications: • Landing/Taxi • 10x7x3 • 7 oz • 16 Watts 1.1 AMP Draw • 3 LEDs • 1050 Raw Lumens • 135 Lux at 10m. 224 Beam Distance • 13500 Peak Beam Intensity.

Black .....P/N 11-11222 ..... ---

SR-M SPOT LANDING LIGHT NON TSO

Single row mini with Rigid patented optical system. Light weight at just 7.0 ounces with hardware.

Specifications: • Landing• 10x7x3• 7 oz• 10 Watts .63 AMP Draw• 2 LEDs• 700 Raw Lumens• 296 Lux at 10m• 298 Beam Distance• 29625 Peak Beam Intensity.

Black .....P/N 11-11221 ..... ---

SPECTOR SR-Q2 DRIVING LANDING / TAXI

With the successful release of the SRM(Single Row Mini) line of LED products, Rigid Industries has taken this slimline product concept to the next level with the new SRQ (Single Row Quad). Utilizing the same compact aluminum design as the SRM, but with lumen output equivalent to the Dually/ D2 Series, the SRQ o ers yet another option for your lighting needs. Available in standard black or marine white coatings, with Specter or Hybrid optical systems.

• Landing • 1 lb. • 34.5 Watts 2.5 AMP Draw • 6 LEDs • 3030 Raw Lumens • 178.2 Lux at 10m • 267 Beam Distance • 17824 Peak Beam Intensity.

Black.....P/N 11-11220 ..... ---

EL

FAA-PMA REPLACEMENT PARTS FOR GRIMES LIGHTING

Evolution Aerospace understands the prohibitively high cost of maintaining Grimes® legacy lighting systems. That's why they have developed an extensive, high quality line of alternative parts for your lighting requirements. From motors to capacitors, from transformers to flash tubes, they have dozens of cost effective, high quality, FAA Approved replacement components.
FAA-PMA Approved parts for the most common lighting requirements

OEM Part No.	MFG Part Number	Description	Part Number	Price
25-0491-1	TR-25-0491-1	Lens	11-15326	---
31-2106-1	TR-31-2106-1	Insulator	11-15327	---
31-4059-1	TR-31-4059-1	Insulator	11-15328	---
31-4851-1	TR-31-4851-1	Lens	11-15329	---
31-4852-1	TR-31-4852-1	Lens	11-15330	---
41-0261-1	TR-41-0261-1	Cam & Worm Wheel	11-15331	---
55-0069-1	TR-55-0069-1	Motor	11-15332	---
55-0073-11	TR-55-0073-11	Trigger Coil	11-15333	---
55-0073-5	TR-55-0073-5	Trigger Coil	11-15334	---
55-0221-1	TR-55-0221-1	Flash Tube	11-15335	---
55-0295-1	TR-55-0295-1	Contact	11-15337	---
55-0339-101G6C2	TR-55-0339-101G6C2	Capacitor	11-15338	---
55-0339-321G2C2	TR-55-0339-321G2C2	Capacitor	11-15340	---
55-0339-421G2D2	TR-55-0339-421G2D2	Capacitor	11-15341	---
55-0743-641L2D8	TR-55-0743-641L2D8	Capacitor	11-15342	---
55-0753-1	TR-55-0753-1	Capacitor	11-15343	---
55-0834-641L2D2	TR-55-0834-641L2D2	Capacitor	11-15344	---
55-0834-751L2E2	TR-55-0834-751L2E2	Capacitor	11-15345	---
55-2198-1	TR-55-2198-1	Battery Pack	11-15346	---
A1233A2	TR-A1233A2	Lens	11-15347	---
A1233A3T	TR-A1233A3T	Lens	11-15348	---
A1257A	TR-A1257A	Gasket	11-15349	---
A1280-2	TR-A1280-2	Lens	11-15350	---
A1280-3	TR-A1280-3	Lens	11-15351	---
A6458	TR-A6458	Motor	11-15352	---
A6532	TR-A6532	Motor	11-15353	---
A6580	TR-A6580	Worm Wheel Assembly	11-15354	---
A6582	TR-A6582	Worm Wheel Assembly	11-15355	---
A6932	TR-A6932	Insulator	11-15356	---
A6947	TR-A6947	Switch Actuator	11-15357	---
A6948	TR-A6948	Switch Actuator	11-15358	---

ELL60 ELECTRONIC LANDING LIGHT

The landing light ELL60 is the logical evolution of ELL50 with even more power. Despite its small size (diameter 60 mm) this headlight has an input power of 60 watts, which corresponds to a usual halogen headlight of 180 - 200 watts. For the first time we have designed a new cooling system for the ELL60. In the new developed central cooling, the cooling air is passed through the landing light directly to the heatsink. With this new system it is possible to implement this high performance on such a small space. Of course, the ELL60 is through its complete socketing absolutely vibration inured and can be installed anywhere on the aircraft. The peculiarity of our landing light based on light-emitting diodes is the integrated anti-collision light (ACL). In this technique, the LEDs of the landing light can be controlled as an anti-collision light and is therefore integrated into our system of "intelligent synchronization". Thus, the ELL acts both as a normal landing light as well as anti-collision light in flight direction (ie forward) and increases the visibility of the aircraft in flight significantly. The ELL is pre-wired for easy connection to a cable with at least 1.5 mm² conductor cross section of 0.5 mm² flexible high. The assembly instructions and the shrink tubing required are attached.

Description	Part No.	Price
ELL60 Electronic Landing Light	11-13565	---
ELL60 Mount Cup	11-13568	---

ELL50 ELECTRONIC LANDING LIGHT

The Thiesen landing light, the ELL50, with it's 50 mm (approx 2") diameter, and less than 80 gram (2.8 ounces) is much more compact than it's forerunner model ELL80, but has a much greater luminous efficiency. Power input of the ELL50 is only 30 watts, with the light output equal to a 90 watt halogen lamp. Again, Thiesen's state of the art molding techniques guaranties weather resistance and therefor can me mounted virtually anywhere on your aircraft including even the wheel pants!
The integrated anti-collision lighting of the ELL50 is also prepared for the intellegent synchronization. The ELL50 can be easily connected to a cable of minimum 1.5 mm² cross section and is prewired with a 0.5 mm² highly flexible cord. An instructions manual and the required shrink tubing are included in the package.
Thanks to its advanced construction the ELL50 is water and seawater resistant and, therefore, ideally suited for use in seaplanes. It has temperature controls and is corrosion and UV resistant.

Description	Part No.	Price
ELL50 Electronic Landing Light	11-13564	---
ELL50 Mount Cup	11-13567	---

ELL80IS - ELECTRONIC LANDING LIGHT - INTELLIGENT SYNCHRONIZATION

By using the ELL, the Electronic Landing Light, ultralight aircraft are better perceived even during the day. The special feature of the light-emitting diode-based landing light is the integrated anti-collision light (ACL). Thus, the ELL functions both as a normal landing light and as anti-collision light in the direction of flight (ie forward). This significantly increases the visibility of the aircraft in flight.
Landing Lights ELL80is is the logical evolution of the proven ELL80 for integration into the family of "intelligent synchronization". With the specially selected LEDs, the ELL80is achieves four times the light output of its predecessor. Mounting and weight are identical to its predecessor, so that it can be replaced 1:1.
The ELL80is is pre-wired for easy connection to a cable with at least 1.5 mm² conductor cross-section with 0.5 mm² highly flexible stranded wire and has a separate connection for the landing light and for the ACL. The installation instructions and the required shrink tubing are enclosed.
Due to the forward-looking construction, the ELL is water and seawater resistant and therefore ideally suited to be used in seaplanes. It is temperature controlled and corrosion and UV resistant.

P/N 11-15985 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

XEVISION LANDING & TAXI LIGHTS

XeVision™ super bright Xenon metal halide arc discharge landing & taxi lights for experimental aircraft. Light so bright and white you'd swear it's daylight; 500,00 candle power (3200 lumens) for our 35 Watt and more than 750,000 candle power (5400 lumens) for our 50 Watt systems – up to more than 8 times brighter than a standard 100 watt incandescent sealed beam. High HID efficiency means less than half the current draw and about ½ of the radiated heat of standard or Halogen lamps.

XeVision™ offers reliable HID pulsing capability based on the proprietary XeStrike™ series ballasts and the patented XePulse and new XePulse II™ pulsing module. All XeVision HID lighting systems are tested up to 100,000 feet altitude. XeVision systems are warranted up to 35,000 feet for continuous fail-safe operation.

XeVision offers retrofit kits for direct replacement or complete lighting system kits for new aircraft installation, different lamp shapes/sizes available. Many installation locations are possible now with a variety of lamp shapes and sizes, extremely small form factor, and lower lamp housing temperatures. They are especially suited for tight spaces in composite aircraft. XeVision reflectors are made of metal, not plastic. High Intensity Discharge (HID) lighting is the most significant breakthrough in aviation lighting since the development of modern sealed beam lamps.

XeVision offers highest quality at a very competitive price with a 5 year warranty and up to 3,000 hour typical lamp life. XeVision HID aviation lighting systems are DO-160E certified (35,50, and 75 watt models)

The XeStrike™ proprietary ballasts XV1D or XV4D are an integral part of all XeVision aircraft lighting systems with the following features: 12 or 24 VDC voltage input., Designed for pulsing or dimming of HID Xenon bulbs with the XePulse™ HID control module., Designed for 35 watt or 50 watt output, 75 watt for special applications only., Extremely low EMI/RFI in combination with third generation D1S bulbs with integrated igniter and double shielded silicone cables., Digital power control for pre-programmable start-up algorithm.

XeVision conversion kit & components	Key features & other information	
XeVision XV-36-SL • Standard landing light conversion kit . With XV1D or XV4D ballast and D1S bulb.	Beam angle 9° horizontal & vertical. PAR 36 size. Preferred Application - PAR 36 conversion, lamp diameter 4-5/16"	
XV-36-SL 35 Watt	P/N 11-01760	---
XV-36-SL 50 Watt	P/N 11-05038	---
XeVision XV-36-ST • Standard taxi light conversion kit. XV1D or XV4D ballast and D1S bulb.	Beam angle 55° horizontal & 10° vertical. Preferred Application - PAR 36 conversion, lamp diameter 4-5/16"	
XV-36-ST 35 Watt	P/N 11-01761	---
XV-36-ST 50 Watt	P/N 11-05037	---
XeVision XV-46-SL • Landing light conversion kit. XV1D or XV4D ballast and D1S bulb.	Beam angle 10° horizontal & vertical. Preferred Application - PAR 46 conversion, lamp diameter 5-11/16"	
XV-46-SL 35 Watt	P/N 11-01762	---
XV-46-SL 50 Watt	P/N 11-05204	---

XeVision conversion kit & components	Key features & other information	
XV-46-ST - Taxi light conversion kit. XeVision XV-46-ST taxi light conversion kit XV1D or XV4D ballast and D1S bulb.	Beam angle 50° horizontal & 8° vertical. Preferred Application - PAR 46 conversion, lamp diameter 5-11/16"	
XV-46-ST 35 Watt	P/N 11-01763	---
XV-46-ST 50 Watt	P/N 11-05208	---
XV-22 - Landing or taxi light for external use like gear struts. XV1D or XV4D ballast and D1S bulb.	15° horizontal & 10° vertical. Landing/taxi light conversion designations. Preferred Application - Lamp fixture, rectangular, only 2.25" high 4.7" wide, and 4.2" deep.	
XV-22 35 Watt	P/N 11-01765	---
XV-22 50 Watt	P/N 11-05209	---
XV-23 - Landing or taxi light in wing area or externally as on a gear structure. With XV1D or XV4D ballast and D1S bulb.	20° horizontal & 8° vertical. Preferred Application - Lamp fixture, rectangular, only 2.25" high 4.7" wide, and 4.2" deep.	
XV-23 35 Watt	P/N 11-01764	---
XV-23 50 Watt	P/N 11-05210	---

FOR MORE MODELS PLEASE VISIT
www.aircraftspruce.com

EL

NAVIGATION / POSITION LED LIGHT BULBS

An affordable, long life, super-bright LED replacement for high-current demand incandescent bulbs for Whelen/Grimes position lights and other applications.

This glass dome LED is an exact replacement for BAY15s-base incandescent bulbs (P/N: 13-15810). Super bright 3W design. Very low power consumption. Green LEDs are designed to work behind an existing Green position light lens.

Features: • Replaces common Grimes / Whelen incandescent reflector bulbs (12V or 24V) • Sealed glass dome for superior dust/moisture resistance • Super bright 3W design – brighter than incandescent it replaces • Low current consumption – about 12% of a similar incandescent • Exact fit replacement for common Grimes / Whelen navigation lights • Experimental Aircraft Only (for Certified aircraft - these bulbs meet FAA illumination guidelines but have no STC/PMA - ask your IA/A&P to consider these as a "minor alteration"

Clear White.....P/N 13-22035 ..... ---

LED REPLACEMENT BULB FOR BEACONS

An affordable, long life, super-bright LED replacement for high-current demand incandescent bulbs for Whelen/Grimes Rotating Beacons and position lights.

This glass dome LED is an exact replacement for BAY15s-base incandescent bulbs. Super bright 3W design. Mirror-gloss reflector concentrates and directs lighting.

Very low power consumption. Cool white LEDs are super-bright (300 lumens). Mirror-reflector mimics OE bulb function and ensures a bright rotating-light effect. Exact fit replacement in most older rotating beacons

Note: Not suitable for flash-tube type strobes.

Features:

• Super bright cool white output

• Replaces common Grimes / Whelen incandescent reflector bulbs (12V or 24V)

Cool White.....P/N 13-22036 ..... ---

Red.....P/N 13-22437 ..... ---

Green.....P/N 13-22438 ..... ---

REPLACEMENT LAMPS

UNIVERSAL REPLACEMENT LAMPS

Our long life incandescent and halogen lamps offer greater light output with increased life and reduced costs. All lamps feature heavy filament construction. Improved design and manufacturing techniques produce a lamp far superior in service with lower cost to the user and packaging provides maximum protection in shipping, handling and storage.

11-01954 11-01955 11-01964 040-0028 040-0003

11-01965 11-01962 11-01963 11-01958

Universal	Grimes	Whelen	General Electric	Cessna	Piper	Aero-flash	Our P/N	Price
24V150W	-	-	-	-	-	40-0003	040-0003	---
U303	-	-	GE-303	303	-	-	11-01948	---
U330	-	-	GE-330	330	-	-	11-01950	---
U1163	11631	-	-	-	-	-	11-01953	---
U1512	1512	-	-	1512	-	-	11-01954	---
U1524	1524	-	-	1524	-	-	11-01955	---
U1940	1940	WRM-1940	GE-1940	1940	-	-	11-01958	---
U1982-SP	LP-1982SP	-	GE-1982SP	-	761-214	-	11-01960	---
UA-7079B-12	1-7079B-12	-	-	A-7079B-12	-	-	11-01962	---
UA-7079B-24	A-7079B-24	-	-	A-7079B-24	-	-	11-01963	---
UA-7512-12	A-7512-12	W1290-14	-	A-7512-12	-	-	11-01964	---
UA-7512-24	A-7512-24	W1290-28	-	A-7512-24	753-478	-	11-01965	---

GALAXY LANDING LIGHT BULBS

Bulb #	Volts	Watts	Par #	Part No.	Price ea
4509Q	13	100	36	11-02220	---
4570	28	150	46	11-03528	---
4581	28	250	46	11-03530	---

WAMCO 4509 PAR36 LANDING LIGHT BULB

Wamco 4509 Par36 Landing Light Bulb.
P/N 11-18422 ..... ---

WAMCO Q5596 PAR36 28-VOLT 250 WATT QUARTZ LAMP

Wamco Q5596 Par36 28-Volt 250 Watt Quartz Lamp.
P/N 11-19229 ..... ---

AML Q4509 SEALED BEAM

This sealed beam is 30 volt, 100 watts and is 4 1/2" in Diameter. **Features:** • 13 Volts • 100 Watts • 4 1/2" Diameter • 114 MM.....P/N 11-12157 ..... ---

GE PAR 46 HALOGEN SEALED BEAM Q4681

Voltage: 28V, Wattage: 450W, Type: PAR46 Sealed Beam, Base Type : Screw-Terminals, Life Hours: 50, Depth: 2.65 in., Sealed Beam, Quartz Halogen
Normal Q4681 Bulb.....P/N 08-13147 ..... ---
GE-Q4681 Bulb.....P/N 11-03101 ..... ---
Amglo Q4681 Bulb .....P/N 11-18677 ..... ---

CESSNA BULB S3353-1

Cessna Bulb S3353-1 replacement bulb.....06-03542 ..... ---

GRAIN OF WHEAT INSTRUMENT BULBS

Replace burnt out Grain of Wheat Bulbs that are used to illuminate many instrument panels & instruments. These blue-white silicone booted lamps are filtered for illuminating integrally white-lighted aircraft instruments and panels as called out in MIL-L-27160. Available in 14/28V.
14V ..... P/N 11-02052 ..... ---
28V ..... P/N 11-02053 ..... ---

GRIMES LAMPS FOR EXTERIOR LIGHTS

Lamp No.	Volts	Application	Price
11-02601	12	Wing Tip Lights, Model E	---
11-02603	24	Wing Tip Lights, Model E	---

WHELEN LAMPS FOR EXTERIOR LIGHTS

Lamp	Part No.	Application	Price
A427	11-03219	Wing Tip Strobe, Xenon Flash	---
A435	11-03697	Tail Strobe, Xenon Flash	---
A469B	11-03225	Flash Tube for SA & A450	---
A506	11-03274	Flash & Socket for A500	---
A508-14	11-03216	Halogen Lamp, A500 / A555 / A600	---
-	11-02602	Replacement bulb (14V)	---
-	11-02604	Replacement bulb (28V)	---
-	11-03897	(12V) Rotating Beacon	---

WHELEN FLASH TUBE FOR GRIMES STROBES

This flash tube replaces Grimes P/Ns 30-0467, 30-1467, 30-1331, 30-1172-5, & 30-0515 series. Used on many Cessna aircraft.
W55-0221-1 .....P/N 11-02780 ..... ---

3 WATT LED NAVIGATION LIGHT BULBS

High-Output 3 Watt LED navigation light bulbs. LED retro-fit for older Grimes navigation lights. Models: 1156, 1157 and 10761 .....P/N 13-15810 ..... ---

LED MIDGET FLANGED BI-POLAR LAMP T1-3/4 (5-28 VOLTS)

Replaces miniature lamps: # 328, 345, 350, 7335 (5/6V), 330, 382, 394 (12/14V), 327, 376, 387 (24/28V). Attention: Not intended for use with Post Light Assemblies
P/N 11-09629 ..... ---

MINIATURE BAYONET BASED T3 1/4 LED LAMP

Replaces miniature lamp: # 6MB, 44, 47, 755, 1302, 1847 (5/6v); 12MB, 57, 386,756, 1445, 1815, 1889, 1893 (12/14v); 1437, 24MB (24V); 28MB, 313, 757, 1819, 1829 (28V); 48MB (48V); 60MB, 1835 (60V); 120MB, NE51H, 967 (120VAC); 130MB (130V).....P/N 11-09628 ..... ---

MARTEK AIRCRAFT 4509 LANDING LIGHT LAMP

Lamp	Part No.	Price	Lamp	Part No.	Price
4580	11-08435	---	Q4509	11-08432	---
4591	11-08438	---	4587	11-08436	---
4626	11-08440	---	4596	11-08439	---

WHELEN REPLACEMENT REFLECTOR LAMPS

Whelen Replacement Reflector Lamps: W678, W1512, W1524, WA7079B12.

Description	Part No.	Price
Wing Tip Strobe, Xenon Flash	11-03219	---
Tail Strobe, Xenon Flash	11-03697	---
Flash Tube for SA & A450	11-03225	---
Flash & Socket for A500	11-03274	---
Halogen Lamp, A500/A555/A600	11-03216	---
Halogen Lamp, A500/A555/A600	11-03208	---
Rotating Beacon	11-03897	---
Replacement lamp 28V / 75W W1982SP	11-13906	---

MARTEK ML-1986 28V- 250W

Miniature lamp for cockpit / wing / tail lights ML-1986 28V-250W.....P/N 11-18199 ..... ---

WINGTIP AND TAIL LED BULB SET

Finally a powerful LED replacement for the expensive RA-7512 (14V) and W-1290 (28V) reflector-type navigation bulbs found on many General Aviation aircraft.
Set of 2 bulbs (Red and Green).....P/N 11-14885 ..... ---
Set of 3 bulbs (Red, Green, and Clear) .....P/N 11-14884 ..... ---

ITC LAMP ASSEMBLY 84-10015

ITC lamp assembly 84-10015 equivalent to Cessna Bulb S3353-1 replacement bulb.
OEM equivalents: Cessna S3353-1 I Cirrus 0105S00034
Externally Replaceable Bulbs (BLUE-WHITE). 1/4 turn to remove replaceable lamp .....P/N 11-18451 ..... ---

EL

WAMCO REPLACEMENT LAMPS

GE Lamp No.	Volts/Amps/Watts	WAMCO P/N	AML P/N	Price
43	2.5V 500mA	11-10886	11-12699	---
44	6.3V 250mA	11-10974	11-12702	---
53	14.4V 120mA	11-11039	11-12388	---
55	7V 410mA	11-10978	11-12724	---
67	13.5V 590mA	11-10979	11-12705	---
81	6.5V 1020mA	11-10957	11-12712	---
85	28V 40mA	11-10945	11-12707	---
93	12.8V 1040mA	11-11040	11-12411	---
94	12.8V 1040mA	11-11041	11-12412	---
209	6.5V 1780mA	11-11062	11-12768	---
301	28V 170mA	11-10990	11-12729	---
303	28V 300mA	11-11042	11-12679	---
304	28V 300mA	11-11043	11-12689	---
305	28V 510mA	11-11008	11-12418	---
306	28V 510mA	11-11044	11-12396	---
307	28V 670mA	11-11024	11-12380	---
308	28V 670mA	11-11013	11-12398	---
309	28V 900mA	11-11045	11-12693	---
311	28V 1290mA	11-11027	11-12683	---
313	28V 170mA	11-10953	11-12377	---
315	28V 900mA	11-11046	11-12756	---
316	6V 700mA	11-10954	11-12694	---
327	28V 40mA	11-10946	11-12662	---
327R	28V .04Amp	-----	11-14291	---
328	6V 200mA	11-10952	11-12382	---
330	14V 80mA	11-10968	----	----
334	28V 40mA	11-10965	11-12387	---
336	14V 80mA	11-10993	11-12690	---
356	28V 170mA	11-10955	11-12401	---
382	14V 80mA	11-10969	11-12402	---
385	28V 40mA	11-10982	11-12726	---
386	14V 80mA	11-10984	11-12417	---
387	28V 40mA	11-10944	11-12383	---
388	28V 40mA	11-10970	11-12416	---
425	5V 500mA	11-10949	11-12710	---
623	28V 370mA	11-10971	11-12722	---
685	5V 60mA	11-11010	11-12738	---
715	5V 115mA	11-10975	11-12626	---
718	5V 115mA	11-11011	11-12739	---
757	28V 80mA	11-10947	11-12709	---
1251	28V 230mA	11-11063	11-12682	---
1252	28V 230mA	11-11064	11-12770	---
1309	28V 520mA	11-11073	11-12842	---
1315	2.5V 1000mA	11-11047	11-12757	---
1317	6V 510mA	11-11069	11-12775	---
1385	28V 720mA	11-11094	11-12678	---
1495	28V 300mA	11-10976	11-12390	---
1512	14V 21W	11-15187	----	----
1524	28V 21W	11-15183	----	----
1665	28V 800mA	11-11056	11-12467	---
1680	6V 4100mA	11-11057	11-12765	---
1691	28V 610mA	11-11058	11-12687	---
1769	2.5V 200mA	11-10958	11-12713	---
1815	14V 200mA	11-10985	11-12680	---
1819	28V 40mA	11-10966	11-12395	---
1820	28V 100mA	11-10950	11-12378	---
1829	28V .07Amp	-----	11-14331	---
1864	28V 170mA	11-10972	11-12391	---
1873	28V 200mA	11-11000	11-12695	---
1982SP	28V/75w	-----	11-15185	---
1982	28V 75W T-3	11-11115	----	----
1987	28V 150W	11-11128	11-12468	---
2182	14V 80mA	11-10948	11-12687	---
2232	28V 640mA	11-11080	11-12783	---
2233	28V 770mA	11-11081	11-12784	---
3011	28V 1290mA	11-11082	11-12686	---
3071	5V 60mA	11-11051	11-12685	---
3150	5V 60mA	11-11028	11-12629	---
3335	28V 16mA	11-11061	11-12384	---
4009	28V 40mA	11-11029	11-12748	---
6832	5V 60mA	11-11016	11-12393	---
6838	28V 24mA	11-11025	11-12386	---
6839	28V 24mA	11-11001	----	----
7009	28V 20mA	11-11078	11-12385	---
7132	5V 75mA	11-11030	11-12749	---
7152	5V 115mA	11-10980	11-12389	---
7153	5V 115mA	11-11009	11-12691	---
7265	5V 60mA	11-11017	11-12628	---
7267	5V 115mA	11-11049	11-12760	---
7327	28V 40mA	11-10986	11-12419	---
7382	14V 80mA	11-10987	11-12463	---
7387	28V 40mA	11-10956	11-12624	---
7715	5V 115mA	11-11067	11-12773	---
7839	28V 24mA	11-11018	11-12784	---
8552	28V 20mA	11-11095	11-12795	---
8623	28V 40mA	11-11088	11-12789	---

GE Lamp No.	Volts/Amps/Watts	WAMCO P/N	AML P/N	Price
8628	6V 200mA	11-11019	11-12743	---
8918	14V 100mA	11-10998	11-12706	---
16870	6.2V 40W	11-11126	11-12814	---
1044-1	28V 40mA	11-11070	11-12776	---
1044-06	28V 40mA	11-11065	11-12771	---
1044-08	28V 40mA	11-11068	11-12774	---
1098BPEG- PL	10V 27mA	11-11020	11-12744	---
120MB	120V 25mA	11-11071	11-12777	---
1280-01	28V 24mA	11-11075	11-12779	---
1280-08	28V 24mA	11-11076	11-12780	---
1280-481	28V 24mA	11-11052	11-12762	---
1309IF	28V 520mA	11-11083	11-12785	---
1495X	28V 300mA	11-10999	11-12708	---
1665AF (1665IF)	28V 800mA	11-11084	11-12698	---
1970X	28V 100W	11-11122	11-12813	---
1978X	10V 100W	11-11114	11-12812	---
1982SP	28V 75W	11-11118	11-01960	---
2059X	12V 10W	11-11108	11-12799	----
2232SB	28V 640mA	11-11096	11-12796	---
"305AF (WL-305IF)"	28V 510mA	11-11048	11-12758	----
3071AS15	5V 60mA	11-11077	11-12781	---
3071BPE	5V 60mA	11-11031	11-12750	---
3071BPEG- PL	5V 60mA	11-11002	11-12621	---
307IF	28V 670mA	11-11060	11-12697	---
376AS15	28V 60mA	11-10988	11-12627	---
382AS10	14V 80mA	11-11014	11-12741	---
385AS15	28V 40mA	11-11026	11-12747	---
387AS15	28V 40mA	11-10981	11-12725	---
387BPGPL	28V 40mA	11-11050	11-12761	---
4009BPE	28V 40mA	11-11032	11-12751	---
4009BPEG- PL	28V 40mA	11-11012	11-12740	---
565-101	28V 24mA	11-11111	11-12803	---
6180AS15	5V 60mA	11-11004	11-12736	---
6832AS15	5V 60mA	11-10994	11-12684	---
6833AS15	5V 60mA	11-10983	11-12727	---
6838-1001	28V 24mA	11-11074	11-12466	---
6838AS15	28V 24mA	11-11033	11-12752	---
6839AS15	28V 24mA	11-11034	11-12754	---
6839BPE	28V 24mA	11-11005	11-12413	---
683AS15	5V 60mA	11-10992	11-12730	---
685AS15	5V 60mA	11-11066	11-12772	---
7009AS15	28V 20mA	11-11085	11-12786	---
7132AS15	5V 75mA	11-11021	11-12703	---
7132AS15T- PL	5V 75mA	11-11022	11-12745	---
713AS15	5V 75mA	11-10977	11-12723	---
7152AS15	5V 115mA	11-11035	11-12704	---
7153AS15	5V 115mA	11-11036	11-12755	---
7153SAS15	5V 115mA	11-11059	11-12766	---
715AS15	5V 115mA	11-11037	11-12696	---
718AS15	5V 115mA	11-11038	11-12701	---
737AS15	28V 50mA	11-11079	11-12782	---
7715AS15	5V 115mA	11-11015	11-12742	---
8GH003912-06	6V 12W	11-11107	11-12798	---
8GH004554-28	28V 11.5W	11-11109	11-12802	---
8GH005448-28	28V 11.5W	11-11110	11-12848	----
"8GH005597- 12"	12V 25W	11-11113	-----	----
"8GH005678- 06"	6V 10W	11-11106	11-12797	---
"8GH007429- 28"	28V 11.5W	11-11112	11-12843	---
A1G	65VAC 90VDC Max	11-11086	11-12787	---
A1H	95VAC 135VDC Max	11-11089	11-12790	---
A1H-R18	95VAC 135VDC Max	11-11090	11-12791	---
A3C	95VAC 135VDC Max	11-10989	11-12728	---
A-4174-24	28V 40W	11-11123	11-12845	---
A-4174-24X	28V 40W	11-11130	11-12816	----
A-7512-12	14V 26W	11-04366	----	----
A-7512-24	28V 26W	11-04367	----	----
A-7079B-12	14V 40W	11-11124	----	----
A-7079B-24	28V 40W	11-15189	----	----
A9A	65VAC 90VDC Max	11-10959	11-12715	---
B1A	65VAC 90VDC Max	11-11006	11-12737	---
B2A	95VAC 135VDC Max	11-11023	11-12746	---
C7A	65VAC 90VDC Max	11-11091	11-12792	---
C9A	95VAC 135VDC Max	11-11087	11-12788	---
DT1673A	5V 21mA	11-11093	11-12794	---
G9B	95VAC 135VDC Max	11-11092	11-12793	---
KPR102	2.4V 700mA	11-10995	11-12731	---
KPR103	3.6V 700mA	11-10996	11-12732	---
KPR104	2.2V 470mA	11-10997	11-12734	---
PR12	5.95V 500mA	11-10960	11-12716	----
PR18	7.2V 550mA	11-10967	11-12721	---
PR2	2.38V 500mA	11-10961	11-12717	---
PR3	3.57V 500mA	11-10962	11-12718	---
PR6	2.47V 300mA	11-10963	11-12719	---
PR7	3.7V 300mA	11-10964	11-12720	---
1308	28V 560mA	11-17218	----	---

EL

NORMAN AIRCRAFT LAMPS

Since 1985 Norman Lamps, a U.S. based corporation, has been a valued supplier of certified aircraft lamps to the U.S. Defense Department (DOD), Naval Air Systems Command (NAV-AIR), and the Federal Aviation Administration (FAA). We are specialists in design, development, production and worldwide distribution of high quality, long life lighting products

Lamp No.	Size	Volts/Amp	Part No.	Price
53	G 3-1/2	14.4/.12	08-12244	---
75	T4	28/2.67	11-13902	---
90	G 6	13/.58	08-12245	---
93	S 8	12.8/1.04	08-12246	---
94	S 8	12.8/1.04	08-12247	---
100	T1	28/.024	08-14671	---
194	T 3-1/4	14/.27	08-12248	---
259	T 3-1/4	6.3/.25	08-12249	---
302	G 5	28/.17	11-16624	---
305	S 8	28/.51	08-12250	---
306	S 8	28/.51	08-12251	---
307	S 8	28/.67	08-12252	---
308	S 8	28/.67	08-12253	---
313	T 3-1/2	28/.17	08-12254	---
316	T 3-1/4	6/.70	08-12255	---
328	T 3-1/4	6/.20	08-12256	---
335	T 3-1/4	28/.04	08-12257	---
337	--	--	08-12259	---
382	T 1-3/4	14/.08	08-16167	---
387	T 1-3/4	28/.04	08-12260	---
1004	B6	12.8/.94	08-12261	---
1141	S 8	12.8/1.44	08-12263	---
1142	S 8	12.8/1.44	08-12264	---
1143	RP 11	12.5/1.98	08-12265	---
1383	R 12	13/1.54	08-12266	---
1414	T 4-1/2	14/.46	08-12267	---
1683	S 8	28/1.02	08-12269	---
1813	T 3-1/4	14.4/.1	08-12270	---
1818	T 3-1/4	28/.17	08-12271	---
1819	T 3-1/4	28/.04	08-12272	---
1820	T 3-1/4	28/.10	08-12273	---
1829	T 3-1/4	28/.07	08-12274	---
1864	T 3-1/4	28/.17	08-12275	---
1891	T 3-1/4	14/.24	08-12276	---
1893	T 3-1/4	14/.33	08-12277	---
1940	T 7	14/50	08-12278	---
4559	PAR 64	28/600	08-12280	---
4570	PAR 64	28/150	08-12281	---
4580	PAR 64	28/450	08-12282	---
4591	PAR 36	28/100	08-12283	---
4596	PAR 36	28/250	08-12284	---
4626	PAR 36	28/150	08-12285	---
6838	T 1	28/.024	08-12287	---
1816R	T 3-1/4	13/.33	08-12298	---
1939X	T 7	28/50	08-12300	---
313R	T 3-1/4	28/.17	08-12311	---
678	T 3	6/1.67	08-12397	---
Q4509	PAR 36	13/100	08-12451	---

Lamp No.	Size	Volts/Amp	Part No.	Price
1073	S 8	12.8/1.8	08-13110	---
1144	RP 11	12.5/1.98	08-13111	---
1308	B 6	28/.056	08-13112	---
1309	B 6	28/.52	08-13113	---
1315	G 5	2.5/1.00	08-13114	---
1385	R 12	28/.71	08-13115	---
1692	S 8	28/.61	08-13116	---
1777	S 8	12.8/1.52	08-13465	---
1816	T 3-1/4	13/.33	08-13117	---
1828	T 3-1/4	37.5/.05	08-13118	---
1982SP	T 3	28/75	08-13120	---
1991	T 3-1/4	14/25	08-13469	---
1999	T 3-1/4	2/25	08-13998	---
2232	S 8	28/.64	08-13121	---
3150	T 1-3/4	5/.06	08-16180	---
303	G 6	28/.30	08-13122	---
304	G 6	28/.30	08-13123	---
309	S 11	28/.90	08-13124	---
311	S 11	28/1.29	08-13125	---
327	T 3-1/4	28/.04	08-13126	---
334	T 3-1/4	28/.06	08-13128	---
336	T 3-1/4	14/.08	08-13129	---
4313	PAR 36	12/12	08-13130	---
4509	PAR 36	13/100	08-13131	---
4522	PAR 46	13/250	08-13132	---
4537	PAR 46	13/100	08-13133	---
4553	PAR 46	28/250	08-13134	---
4581	PAR 46	28/450	08-13135	---
4582	PAR 46	28/450	08-13136	---
4587	PAR 36	28/250	08-13137	---
4589	PAR 36	28/50	11-16625	---
4593	PAR 36	28/50	08-13138	---
4594	PAR 36	28/100	08-13139	---
4595	PAR 36	13/100	11-16626	---
67	G 6	13.5/.59	08-13140	---
6839	T 1	28/.024	08-13141	---
685	T 1	5/.06	08-13142	---
89	G 6	13/.58	08-13143	---
7079-24	GG-12A1	28/1.54	08-13468	---
7512-12	--	14/28	08-13464	---
7512-24	--	28/28	08-13466	---
7604	--	--	08-13144	---
PR6	--	--	08-13145	---
Q4559	PAR 64	28/600	08-13146	---
Q4681	PAR 64	28/450	08-13147	---
--	T 4 14/25	12V	08-13463	---
A508-14	T 3-1/4	14/25	11-16627	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GE REPLACEMENT LAMPS

GE MINIATURE LAMPS FOR COCKPIT/WING/TAIL LIGHTS

Lamp No.	Primary/Application	Volts	Amps/ Watts	Part No.	Price
B-31/2 Bulb 7/16" (11mm) Diameter					
GE-PR3	Flashlight-3D Cells	3.57	.50A	11-03071	---
GE-PR6	Flashlight-2D Cells	2.47	.30A	11-03070	---
GE-PR7	Flashlight-3D Cells	3.70	.30A	11-03072	---
GE-PR12	Flashlight-5D Cells	5.95	.50A	11-03073	---
GE-PR18	Flashlight-6D Cells	7.20	.55A	11-03074	---
B-6 Bulb 3/4" (19mm) Diameter					
GE-1308	Reading Light	28	.56A	11-03076	---
GE-1309	Aircraft Interior	28	.52A	11-04162	---
GE-1317	Emergency Landing	6	.51A	11-03075	---
G-31/2 Bulb 7/16" (11mm) Diameter					
GE-356	Map Light	28	17A	11-04184	---
GE-1450	Indicator	24	.035A	11-03077	---
G-41/2 Bulb 9/16" (14mm) Diameter					
GE-55	Panel Indicator	7	2 CP	11-04194	---
GE-57	Panel Indicator	14	2 CP	11-04195	---
G-5 Bulb 5/8" (16mm) Diameter					
GE-1315	Emergency Lighting	2.5	1.0A	11-03037	---
G-6 Bulb 3/4" (19mm) Diameter					
GE-303	Cockpit Light	28	.30A	11-04172	---
GE-304	Cockpit Light	28	.30A	11-04173	---
GE-623	Aircraft - 2 Filaments	28	.37A	11-03041	---
GE-1251	Aircraft - 2 Filaments	28	.23A	11-03039	---
GE-1252	Aircraft - 2 Filaments	28	.23A	11-03040	---
S-8 Bulb 1" (25mm) Diameter					
GE-305	Wing/Tail	28	.51A	11-04174	---
GE-306	Wing/Tail	28	.51A	11-04175	---
GE-307	Wing/Tail	28	.67A	11-04176	---
GE-1619	Instrument	6	4.1A	11-03025	---
GE-1665	Aircraft	28	.80A	11-03034	---
AML-1665AF	Aircraft	28	.80A	11-10813	---
GE-1680	Wing/Tail	6	4.1A	11-04165	---
GE-1691	Aircraft - 2 Filaments	28	.61A	11-03029	---
GE-1692	Marine - 2 Filaments	28	.61A	11-03030	---
GE-1777	Aircraft Tail Light	12.8	1.52A	11-04014	---
S-11 Bulb 1-3/8" (35mm) Diameter					
GE-309	Aircraft	28	.90A	11-03036	---
GE-311	Wing/Tail	28	1.29A	11-04178	---
T-1 Bulb 1/8" (3mm) Diameter					
GE-685	Aircraft	5.0	.06A	11-03042	---
GE-718AS15	Aircraft - 1 Filament	5.0	.115A	11-03043	---

Lamp No.	Primary/Application	Volts	Amps/ Watts	Part No.	Price
T-13/4 Bulb 7/32" (5.5mm) Diameter					
GE-85	Indicator	28	.04A	11-03044	---
GE-327	Eyebrow/Post Lt.	28	.04A	11-04015	---
GE-328	Panel Indicator	6	.20A	11-04181	---
GE-330	Eyebrow/Post Lt.	14	.08A	11-04016	---
GE-334	Panel Indicator	28	.04A	11-04182	---
GE-387	Panel Indicator	28	.04A	11-04185	---
T-21/4 Bulb 9/32" (7.5mm) Diameter					
GE-786	Emergency-Halogen	6	2.0A	11-03046	---
T-3 Bulb 3/8" (9.5mm) Diameter					
T-31/4 Bulb 13/32" (10mm) Diameter					
GE-44	Panel Indicator	6.3	.25A	11-04186	---
GE-316	Instrument	6	.70A	11-03050	---
GE-323	Aircraft	3	.19A	11-13900	---
GE-400	Aircraft	28	.10A	11-03054	---
GE-757	Indicator	28	.08A	11-03053	---
GE-1813	Wing/Tail-All Frosted	14.4	.10A	11-04166	---
GE-1816	Map/Dome Light	13	.33A	11-04167	---
GE-1818	Panel Indicator	24	.17A	11-04168	---
GE-1819	Panel Indicator	28	.04A	11-04169	---
GE-1820	Panel Indicator	28	.10A	11-04170	---
GE-1873	Aircraft	28	.17A	11-03056	---
GE-464	Aircraft	28	.17A	11-03055	---
GE-1864	Panel Indicator	28	.17A	11-04171	---
T-5 Bulb 5/8" (16mm) Diameter Electric Discharge Lamps					
GE-5004CW	Cool White	A.C.	4W	11-03060	---
GE-5008CW	Cool White	A.C.	8W	11-03063	---
GE-5104WW	Warm White	A.C.	4W	11-03062	---
GE-5108WW	Warm White	A.C.	8W	11-03065	---
GE-5113WW	Warm White	A.C.	13W	11-03068	---
T-7 Bulb 7/8" (20mm) Diameter					
GE-1940	Rotating Beacon	14	3.57A	11-03794	---
Cockpit & Wing/Tail Lights					
GE-53	Panel Indicator	14.4	1 CP	11-04193	---
GE-67	Clock, tail, cargo area	13.5	8	11-01394	---
GE-93	Wing/Tail	12.8	15 CP	11-04199	---
GE-313	Cockpit Light	28	.17A	11-04179	---
GE-336	Post Light	14	.08A	11-04183	---
GE-356	Map Light	28	17A	11-04184	---
GE-1073	Illuminator Lights	12.8	1.80A	11-04012	---
GE-1141	Wing/Tail	12.8	1.44A	11-04161	---
GE-1495	Panel Indicator	28	.30A	11-04164	---

Note: GE is no longer producing lamps. Martek is producing this line utilizing the original GE molds. Packaging may vary, but all shipped lamps will be equivalent and meet the same specifications.

GE SEALED BEAM LAMPS FOR LANDING & TAXI LIGHTS

Lamp Diameter	Lamp No.	PAR	Design Volts	Watts	Part No.	Price
4 1/2" (114mm)	GE-4509	36	13	100	11-03796	---
4 1/2" (114mm)	GE-4700	36	13	100	11-03807	---
4 1/2" (114mm)	GE-Q4631	36	13	250	11-03083	---
4 1/2" (114mm)	GE-4537	46	13	100	11-03798	---
4 1/2" (114mm)	GE-4502	36	28	50	11-04187	---
8" (203mm)	GE-4557	64	28	400	11-04190	---
8" (203mm)	GE-4559	64	28	600	11-04017	---
4 1/2" (114mm)	GE-4626	36	28	150	11-04191	---
4 1/2" (114mm)	GE-4589	36	28	50	11-03084	---
4 1/2" (114mm)	GE-4594	36	28	100	11-03803	---
4 1/2" (114mm)	GE-4587	36	28	250	11-03090	---

Lamp Diameter	Lamp No.	PAR	Design Volts	Watts	Part No.	Price
5 3/4" (146mm)	GE-4551	46	28	250	11-03093	---
5 3/4" (146mm)	GE-4553	46	28	250	11-03799	---
5 3/4" (146mm)	GE-4554	46	28	450	11-03095	---
5 3/4" (146mm)	GE-4571	46	28	150	11-03092	---
5 3/4" (146mm)	GE-4581	46	28	450	11-03097	---
5 3/4" (146mm)	GE-Q4681	46	28	450	11-03101	---
5 3/4" (146mm)	GE-4582	46	28	450	11-03098	---
5 3/4" (146mm)	GE-Q4597	46	28	450	11-03099	---
7" (178mm)	GE-4541	56	28	450	11-03102	---
8" (203mm)	GE-4559X	64	28	600	11-03104	---
4 1/2" (114mm)	GE-4505	36	28	50	11-04188	---
5 3/4" (146mm)	GE-4580	46	28	450	11-03901	---
5 3/4" (146mm)	GE-4570	46	28	150	11-03801	---

EL

GARMIN G5 ELECTRONIC FLIGHT INSTRUMENT

Backup or Primary Flight Instrument with Optional Autopilot Capability.

G5 electronic flight instrument for experi-mental amateur-built (EAB) and light sport aircraft (LSA). The compact and cost-effective G5 delivers exceptional performance and reliability, serving as either a backup instrument to G3X™ or other EFIS systems or as a standalone primary flight display, with optional autopilot mode annunciation. Boasting a bright, 3.5-inch sunlight-readable liquid crystal display (LCD) with built-in GPS, G5 displays attitude, ground track, altitude, airspeed, groundspeed, vertical speed, slip/skid, course (lateral) deviation, vertical deviation and incorporates a dedicated HSI page. Even more capabilities are available when integrated with G3X glass flight displays. Additionally, the G5 can serve as part of a highly capable standalone autopilot solution when paired with compatible autopilot mode controllers and autopilot servos.

Seamless Cockpit Integration

The G5 offers EAB/LSA aircraft owners a cost-effective path to add a primary or backup flight instrument to their cockpits, which combines essential flight information on an easy-to-read display.

CERTIFIED WITH LPM

G5 Primary Electronic Attitude Display.....P/N 11-18411 ..... ---
Dual G5 AI / DG Bundle - STC'd For Certified Aircraft With LPM
P/N 11-20437 ..... ---

EXPERIMENTAL

G5 without Harness .....P/N 11-14312 ..... ---
Experimental G5 with Custom Harness.....P/N 11-14447 ..... ---

GARMIN G5 DG / HSI WITH LPM

Glass Upgrade for DG/HSI and Attitude Instruments in GA Aircraft • Replaces traditional electromechanical instruments; can be configured in attitude, DG/HI/HSI and turn coordinator positions • Bright, sunlight-readable 3.5" LCD color display, sized to fit standard 3-1/8" instrument cutout • Certified via approved model list (AML) for STC'd installation on more than 560 aircraft makes and models • Includes a 4-hour backup battery with battery status indicator • Dual G5 installation offers reversionary display capability plus the added redundancy of dual ADAHRS and dual backup batteries. The G5 electronic flight instrument delivers exceptional performance, reliability and ease of installation as a drop-in replacement for primary attitude and/or directional gyros in type-certificated fixed-wing aircraft. Providing an economical upgrade path via a comprehensive approved model list (AML), the compact and cost-effective G5 is bringing modern "glass cockpit" reference to thousands of aircraft that would otherwise depend on older, vacuum-driven equipment.

Description	Part No	Price
G5 DG/HSI with GMU 11 + LPM	11-18412	---
G5 DG/HSI with GMU 11 / GAD 29B + LPM	11-18413	---

G5 ACCESSORIES

G5 Back-up Battery	11-14314	---
G5 Flush Mount Panel Bracket - Non PMA	11-15457	---
GA 35 TSO WAAS GPS Antenna TNC	11-09701	---
GA 35 TSO WAAS GPS Antenna TNC - Black	11-19361	---
GA 36 GPS / WAAS Through Mount Antenna	10-05694	---
Glareshield Mount TNC GPS Antenna for G5	10-06987	---

GARMIN LIGHTNING PROTECTION MODULE WITH G5 INSTALL KIT

This kit incorporates a lightning protection module (LPM) into the backshell of the D-sub. The LPM provides additional protection devices for the CAN signals and aircraft power 1 input. Kit also included a standard G5 installation kit. .....P/N 11-18409 ..... ---

AFFORDABLE AVIATION DUAL GARMIN G5 RECESSED FLUSH MOUNT ADAPTER

FAA / PMA APPROVED - REPLACEMENT FOR GARMIN P/N 115-02733-00.
The Recessed mount offered is precision cut on a laser cutter to the Garmin Specs, Less Reference Holes. Each Adapter Plate is anodized to prevent corrosion per Garmin .....P/N 13-24286 ..... ---

SIX PACK AERO WINGTIP BRACKET GARMIN GMU 11 MAGNETOMETER MOUNT

Note: Garmin GMU 11 Magnetometer is not included. This wingtip bracket is designed and fabricated from 2024-T3 aluminum to meet the material specifications outlined by the Garmin G5 and GMU-11 Magnetometer installation instructions in accordance with the applicable Supplemental Type Certificate .....P/N 10-07417 ..... ---

GARMIN G5 FLUSH MOUNT PANEL BRACKET

This flush mount bracket is a neat solution to mount a Garmin G5 standby EFIS to your panel. This aluminum mounting bracket can be fixed vertically or horizontally depending on your needs. There are 4 holes for #3 rivets to fix the mounting bracket to the panel. See Garmin G5 Flush Single for panel cut-out dimensions. Can be rotated 90 degrees if needed for panel obstruction.
P/N 11-15457 ..... ---

GARMIN SMP G5 ADAPTER PLATE

The G5 adapter plate is fabricated from 0.050 thick 2024-T3 aluminum per the dimensions shown in Figure 4-11. Apply a finish coat of paint to adaptor plates as desired prior to final installation. These may be field fabricated if needed and must have some type of corrosion protection (primer, alodine, etc.).
P/N 11-15379 ..... ---

GARMIN G5 FLUSH MOUNT PANEL BRACKET

With this flush mount, the G5 unit may be recessed into the instrument panel which positions the display flush with the instrument panel. Some instrument panels may not be capable of supporting this modification. The Recessed Adapter Plate includes reference holes and can be used as a template for creating the recessed cutout. Supports one or two G5 units. .....P/N 11-15518 ..... ---

GARMIN GI 275 CDI / MFD

The GI 275 Base variant can be utilized as a CDI/MFD with features such as traffic, weather, terrain, SafeTaxi® airport diagrams, and more. When installed as a CDI, the GI 275 flight instrument, when paired with select VHF Nav radios or GPS navigators, can serve as your primary indicator for making, adjusting and tracking course selections. It is designed to accept a variety of GPS or navigation inputs, allowing up to two GPS sources and two VHF navigation sources. The GI 275 features an Omni Bearing Resolver that allows the flight instrument to interface to a variety of legacy navigation sources without the need for an expensive adapter. CDI source selection can be accomplished through the touchscreen interface, while course and heading selection is completed by using either the touchscreen or dual concentric knob. When pilots replace an older mechanical CDI, the GI 275 doubles as a modern digital indicator and adds MFD-like capabilities such as a moving map, weather, traffic and terrain.

Specifications: • Width: 3.25" (82.6 mm) • Height: 3.25" (82.6 mm) • Depth: 6.44" (163.6 mm) .....P/N 11-17861 ..... ---
Backup battery pack .....P/N 11-19100 ..... ---

GARMIN GI 275 EIS ENGINE INDICATION SYSTEM

The GI 275 EIS variant can serve as a primary EIS display for piston engine, fuel, electrical and other data. Use dual GI 275 displays to monitor twin-engine aircraft. Graphical display of cylinder head and exhaust gas temperatures allows you to pinpoint the optimal fuel/air mixture for efficient power management.

Specifications: • Width: 3.25" (82.6 mm) • Height: 3.25" (82.6 mm) • Depth: 6.44" (163.6 mm)
With GEA 24 (Unit Only).....P/N 11-17865 ..... ---
With GEA 24 + 6-Cyl Package .....P/N 11-17870 ..... ---

Description	Part No.	Price
4 Cylinder Base + Oil Temp / FF (Fuel Pump)	11-18747	---
4 Cylinder Base + Oil Temp / FF (Gravity Fed)	11-18748	---
4 Cylinder Base + Oil Temp / FF / Manifold Pressure (Fuel Pump)	11-18749	---
4 Cylinder Base + Oil Temp / FF / Manifold Pressure (Gravity Fed)	11-18750	---
6 Cylinder Base + Oil Temp / FF (Fuel Pump)	11-18753	---
6 Cylinder Base + Oil Temp / FF (Gravity Fed)	11-18754	---
6 Cylinder Base + Oil Temp / FF / Manifold Pressure (Fuel Pump)	11-18751	---
6 Cylinder Base + Oil Temp / FF / Manifold Pressure (Gravity Fed)	11-18752	---

GARMIN GLARESHIELD GPS ANTENNA FOR GI 275

The GPS uses a 96-inch (8-foot) length of RG-316 cable and typically mounts on the glareshield. It is outfitted with a BNC connector as well .....P/N 11-17868 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GARMIN GTN 650XI GPS / NAV / COMM SYSTEM FOR EXPERIMENTAL AIRCRAFT

****Note: Per Garmin, even though this product is certified, we can only sell over the counter to experimental aircraft (must verify) with wire harness.****

Garmin is changing the course of aviation yet again! Introducing the GTN 650XI. With more pixels, more processing power, more speed and performance, the GTN 650Xi system brings exciting new growth capabilities to the industry's premier GPS/Nav/Comm/MFD platform. • Brighter, Faster, Sharper, Better - Do-It-All Touchscreen Intuitive touchscreen interface provides quick access to navigation, radio tuning, multifunction display features and more. • Lightning-Fast Response - Powerful dual-core processors boost the GTN Xi series graphical display capabilities — with faster zooming, panning and map rendering on the display. • High-Resolution Display - With almost double the pixel count of its predecessor, the GTN Xi series features wider viewing angles and one of the highest-resolution displays ever offered in this class of avionics. • Work Saving Ways to Tune and Display - Multi-function Display Supporting multiple inputs, the 4.9" display can put moving maps, terrain, traffic, weather, airport diagrams and more at your fingertips.

Specifications: TSO applicability: C34e; 2C34f; C36e Class A; 2C36f Class A; C40c; 2C40c; C74d Class A; C112e; C128a; 2C128; C146e Class 3; C151d Class A, B; C157b Class 1, 2; 165b; C169a Class C, E, 3, 4, 5, 6; 2C169a Class C, E, H2, 3, 4, 5, 6; C194; C195b Class B1, B3, B5, B7; C209 • Display size: 4.9" (125 mm) diagonal • Display resolution: 834 pixels (W) x 370 pixels (H) • Unit bezel height: 2.65" (67 mm) • Unit bezel width: 6.25" (159 mm) • Unit depth with connectors: 11.25" (286 mm) (measured from face of aircraft panel to rear of connector backshells) • Unit weight: 5.5 lbs (2.48 kg) • Input voltage range: 11 VDC - 33 VDC • Operating temperature range: -20° C to 55° C (-4° F to 131° F) • Number of GPS channels: 15 (12 GPS and 3 GPS/WAAS/SBAS) • LAT/LON position accuracy: <1.25 meter RMS horizontal, < 2 meter vertical, with WAAS • Maximum velocity: 1,166 knots • Position update Interval: 0.2 sec (5 Hz)

Unit with 4ft Wire Pigtail Americas.....P/N 11-17830 ..... ---
Unit with 4ft Wire Pigtail International.....P/N 11-17831 ..... ---
Unit with Custom Wire Pigtail .....P/N 11-12957 ..... ---

GARMIN GTN DATA CARDS

010-00900-10 GTN Datacard for Americas
P/N 11-09697 ..... ---

010-02044-10 GTN Datacard for Garmin GTN Xi Series (625/635/650/735/750)
P/N 11-17809 ..... ---

GARMIN GTN 725XI GPS / MFD SYSTEM WITH HARNESS FOR EXPERIMENTAL AIRCRAFT

Note: Per Garmin, even though this product is certified, we can only sell over the counter to experimental aircraft (must verify) with wire harness. For certified aircraft, you will have to fly to a Garmin install dealer.

With its 6.9-in. (diagonal) display, intuitive touchscreen interface and wide range of multifunction display capabilities, the GTN 725 is so much more than just a GPS navigator. The 6-in.-tall system puts high-resolution terrain mapping, graphical flight planning, charting, traffic display, satellite weather and much more right at your fingertips.

Touch and Go

With the GTN 725's revolutionary new touchscreen interface, you're rarely more than two taps away from all of the system's primary functions. Quickly pan across the map screen simply by swiping your finger across the high-resolution TFT display. Or enter waypoint data with the full onscreen keypad. It's even designed with raised grips in the bezel and a shelf across the lower edge of the display that serve as gripping points in both smooth and turbulent flight conditions. Traditional concentric knobs are also available for those who are used to that style of data input.

Unit with 4ft Wire Pigtail Americas.....P/N 11-17828 ..... ---
Unit with 4ft Wire Pigtail International.....P/N 11-17829 ..... ---
Unit with Custom Wire Pigtail Select at Purchase
P/N 11-12961 ..... ---

GARMIN GTN 750XI GPS/NAV/COM/ MFD SYSTEM WITH HARNESS FOR EXPERIMENTAL AIRCRAFT

****Note: Per Garmin, We can only offer this product to experimental aircraft with harness.****

Packed full of powerful avionics, the GTN 750XI is a fully integrated GPS/NAV/COMM solution. The 6-in.-tall system's intuitive touchscreen controls and large display give you unprecedented access to high-resolution terrain mapping, graphical flight planning, geo-referenced charting, traffic display, satellite weather and much more.

Tap into a new generation of faster, smarter avionics. With more pixels, more processing power, more speed and performance, the GTN 750Xi system brings exciting new growth capabilities to the industry's premier GPS/Nav/Comm/MFD platform. Visualize your entire flight plan, including holds and approaches on a big 6.9" touch display. High-speed processors cut boot-up time by 50% over earlier GTN models. Fly the approaches you want — from visual glidepaths to LPV, RNAV, ILS and more. It's interface-friendly with a wide range of existing avionics, autopilots and flight displays. Wirelessly load flight plans and database updates with an optional Connext® link. Brighter, Faster, Sharper, Better - Do-It-All Touchscreen Intuitive touchscreen interface provides quick access to navigation, radio tuning, multifunction display features and more. • Lightning-Fast Response - Powerful dual-core processors boost the GTN Xi series graphical display capabilities — with faster zooming, panning and map rendering on the display. • High-Resolution Display - With almost double the pixel count of its predecessor, the GTN Xi series features wider viewing angles and one of the highest-resolution displays ever offered in this class of avionics. • Work Saving Ways to Tune and Display - Multi-function Display Supporting multiple inputs, the 6.9" display can put moving maps, terrain, traffic, weather, airport diagrams and more at your fingertips.

Unit with 4ft Wire Pigtail Americas.....P/N 11-17826 ..... ---
Unit with 4ft Wire Pigtail International.....P/N 11-17827 ..... ---
Unit with Custom Wire Pigtail .....P/N 11-12960 ..... ---

GARMIN GTN 625XI GPS SYSTEM FOR EXPERIMENTAL AIRCRAFT

Note: Per Garmin, even though this product is certified, we can only sell over the counter to experimental aircraft (must verify) with wire harness. For certified aircraft, you will have to fly to a Garmin install dealer.

Introducing the next generation of aircraft navigation. The GTN 625 is a 2.64-in.-tall standalone GPS navigator that puts a wealth of features – like high-resolution terrain mapping, graphical flight planning, traffic display and more – right at your fingertips.

Touch and Go

With the GTN 625's revolutionary new touchscreen interface, you're rarely more than two taps away from all of the system's primary functions. Quickly pan across the map screen simply by swiping your finger across the 4.9-in. diagonal high-resolution TFT display. Or enter waypoint data with the onscreen alphanumeric entry. It's designed with raised grips in the bezel and a shelf across the lower edge of the display that serve as gripping points in both smooth and turbulent flight conditions. Traditional concentric knobs are also available for those who are used to that style of data input.

Unit with 4ft Wire Pigtail Americas.....P/N 11-17834 ..... ---
Unit with 4ft Wire Pigtail International.....P/N 11-17835 ..... ---
Unit with Custom Wire Pigtail Select at Purchase
P/N 11-12959 ..... ---

GARMIN G3X EFIS / EMS / GPS TOUCH SYSTEM

The G3X Touch is a large touchscreen glass flight display system designed for installation in experimental amateur-built and light sport aircraft (LSA). The non-certified G3X Touch system offers pilots easy-to-read, easy-to-use, high-resolution 10.6-inch flight displays with split-screen functionality and a host of advanced interface options – all at a great price.

Large Touch Display: A large 10.6-inch display. Since G3X Touch is scalable and easily configurable, pilots can choose to install up to three G3X Touch displays in their panel. Incorporating the latest in infrared touchscreen technology, the display offers a resilient, high-resolution, sunlight readable screen that demonstrates Garmin's industry-leading experience in integrated flight decks. Enhanced Functionality and Situational Awareness: The G3X Touch display provides pilots with an intuitive split-screen mode with the option to view PFD, MFD, and engine information on a single display. Synthetic vision (SVX™) is a standard feature on G3X Touch, which provides a rich, three-dimensional depiction of terrain, obstacles, water features, the runway environment, and more.

Seamless Integration and Familiar Interface: G3X Touch interfaces with Garmin's industry-leading experimental autopilot, which gives pilots autopilot control through the touchscreen interface, while still supporting the optional, stand-alone GMC 305 autopilot control panel.

Steps	Garmin #	Description	Part No.	Price
1. Pick Your System	K10-00016-40	Single Display GDU 460 System With Out EIS	11-12636	---
--	K10-00016-45	Single Display GDU 460 System With EIS	11-12638	---
--	K10-00016-55	Dual Display GDU 460 System With EIS	11-12640	---
Connector Kit	010-12150-00	GDU 460/465 Install Kit	11-12646	---
--	K10-00181-00	GSU 25 Connector Kit	11-11433	---
--	011-02886-00	GEA 24 Engine Module Connector Kit	11-11434	---
--	011-00871-10	GMU 22 Install Kit	11-12213	---
--	011-01796-00	GMU 22 Mounting Bracket	11-13501	---
--	010-12150-01	GDU 45X Connector Kit	10-05860	---
2. Select Antenna(s)	010-11373-00	GA 26 XM (remote dash mount) Antenna	11-09466	---
--	010-10052-04	GA 26C GPS (remote dash mount) Antenna Kit	11-00051	---
--	010-11370-10	GA 57X GPS/SM (external mount) Antenna	11-09467	---
3. Add Engine Probe Package	K00-00512-00	4 Cylinder Lyc/Cont Probe Kit	11-09469	---
--	K00-00513-00*	6 Cylinder Lyc/Cont Probe Kit	11-09474	---
--	K00-00514-00**	Rotax 912 Probe Kit	11-09476	---
--	494-30004-02	Fuel Pressure (Injected), 50 PSIG, 1/8-27 NPT	11-09477	---
--	494-30004-03	Fuel Pressure (Carbureted) / Coolant Pressure,	11-09478	---
--	494-10001-00	Fuel Flow, 1/4" Female NPT	11-09479	---
--	494-50005-00	RPM, Hall Effect, Slick magneto	11-09480	---
--	494-50005-01	RPM, Hall Effect, Bendix magneto	11-09481	---
--	909-D0000-00	Ammeter, Shunt, +/-50 mV, 100 amps	11-09482	---
--	494-70000-0	CHT Type Thermocouple 3/8-24 Bayonet	10-05779	---
--	494-70002-00	TIT, Type K thermocouple, 7/16-20, bayonet	11-09483	---
	494-70004-00	Oil Temperature Probe RTD 5/8-18 UNF-3A	10-05780	---
--	494-70005-00	Carb Temp, RTD, 1/4-28	11-09484	---
--	494-30004-00	Oil pressure 150 PSI 1/8-27 npt sensor kit	10-05863	---
--	494-30004-01	Manifold pressure 30 PSI 1/8-27 npt sensor kit	10-05864	---
--	494-70001-00	EGT Type K Bayonet Sensor	10-05865	---
--	--	G3X Jabiru Probe Kit	10-06579	---
4. Add Transponder for Remote Mode S (Optional)	GTX 23	Remote Mount GTX 23 Mode S Transponder	11-10001	---
6. Add Autopilot	GSA 28	GSA 28 Single Autopilot Servo	11-11450	---
--	011-02950-000	GSA 28 Connector Kit	11-12171	---
--	010-01068-00	GSA 28 Capstan Kit	11-11436	---
--	011-02952-00	GSA 28 Servo Install Kit Without Mount Bracket	11-11437	---
--	011-02952-01	GSA 28 Servo Install Kit Wit Mount Bracket	11-11438	---
RV Aircraft Servo Packages	011-02952-10	GSA 28 Servo Install Kit for RV 6 Roll	11-11440	---
--	011-02952-11	GSA 28 Servo Install Kit for RV 4 & 8 Pitch	11-11441	---
--	011-02952-12	GSA 28 Servo Install Kit for RV 7, 8 & 10 Roll	11-11442	---
--	011-02952-13	GSA 28 Servo Install Kit for RV 9 Roll	11-11443	---
--	011-02952-14	GSA 28 Servo Install Kit for RV 6, 7 & 9 Pitch	11-11444	---
--	011-02952-15	GSA 28 Servo Install Kit for RV 10 Pitch	11-11445	---
7. Add Autopilot Control Panel	010-01169-00	GMC 305 Autopilot Control Panel	11-11446	---
--	010-12034-00	GMC 305 Install Kit	11-11447	---
8. Add ADS-B Weather	--	GDL 39 Portable ADS-B Receiver with Bare Wire Cable	11-10730	---
9. Add Pitot Tube & AOA	010-01074-00	GAP 26 Unheated Pitot Tube	11-11448	---
--	010-01074-10	GAP 26 Heated Pitot Tube	11-11449	---
--	010-01074-20	GAP 26 Heated & Regulated Pitot Tube 14V	11-12973	---
--	--	PBK-12 PAINTABLE GRETZ BRACKET	10-01820	---
--	010-01287-00	GI 260 Angle of Attack Indicator for G3X or G3X Touch	11-12648	---
10. ARINC Interface	010-01172-00	GAD 29 ARINC Interface	11-11454	---
--	011-03271-00	GAD 29 Connector Kit	11-11455	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CONTINUED FROM THE PREVIOUS PAGE.

Steps	Garmin #	Description	Part No.	Price
--	--	G3X IFR Harness EFIS/EMS Rotax	11-09490	---
--	--	G3X IFR No Engine Data Harness	11-11293	---
--	--	G3X Screen Add-On Harness	11-12273	---
--	--	Garmin G3X Auto Pilot Harness	11-11294	---
--	010-01546-00	Garmin G3X ADS-B GPS System	11-13819	---
--	011-03914-00	Garmin G3X GPS Install Kit	11-13820	---
--	--	G3X GAD 27 Connector Kit	10-05938	---
--	--	Installation Kit for Garmin GPS 20A	11-13820	---
--	010-01765-00	GDU™ 470 7-inch display, GPS Display, AM Portrait (Display Only)	11-14969	---
--	010-01056-00	GDU™ 450 7-inch display, GPS Display, AM Landscape (Display Only)	10-05740	---
--	010-01057-00	GDU™ 460 10.6-inch Landscape (Display Only)	11-12642	---
--	K10-00016-03	G3X LRU kit with GSU 25B, GMU 22, GTP 59 and configuration module	11-14961	---
--		GAP 26 Heated & Regulated Pitot Tube 28V	11-14963	---
--		G3X Add-on Vertcal Power or GAD 27 Harness	11-14964	---
--	011-02950-01	GSA 28 Connector Kit Right Angle (One Per Servo)	11-14918	---
--	010-12150-02	GDU 470 7" Install Kit	11-15037	---
--	011-04349-90	GMU 11 Connector Kit	11-15066	---
--	330-00067-00	BNC Connector GPS Notch Filter	10-06988	---
--	494-30004-01	Garmin G3X Manifold Pressure 30 PSIA 1/8-27 NPT Sensor Kit.	10-05864	---
	B06XW6KSH1	Garmin G3X Adapter - BNC to RCA 75 OHM	11-17905	---
WWW.AIRCRAFTSPRUCE.COM FOR GARMIN G3X IFR SYSTEM				

GARMIN GDL® 60 DATALINK WITH PLANESYNC™ TECHNOLOGY

THE FLYING LIFE, SIMPLIFIED -Streamline your flight prep, and enjoy your aircraft more with the GDL 60 datalink and PlaneSync™ technology. It's the connected aircraft solution that automatically updates your avionics databases1, logs flight/engine data and lets you remotely check fuel and systems status via your Garmin Pilot™ smart-device app2.

P/N 11-20263 ..... ---

GARMIN GMC 507 AUTOPILOT CONTROL HEAD FOR G3X

When installed with G3X Touch flight displays, the GMC 507 offers alternative, dedicated autopilot controls. While autopilot features can be selected using the touchscreen controls on G3X Touch flight displays, this unit allows for easier pitch, vertical speed and airspeed adjustments by using the control wheel. Additionally, separate knobs allow easy twist-control of heading/track and altitude. And for added safety, the controller's dedicated LVL mode button commands automatic recovery from steep or unusual attitudes, prompting the autopilot to return the aircraft to straight-and-level flight.

An Advanced Autopilot Mode Controller for Your Airplane

- Dedicated controller for advanced Garmin autopilot modes
- Control wheel for speed selection
- Dedicated heading/track and altitude knobs
- LVL mode button commands automatic recovery from steep or unusual attitudes
- Dedicated heading and track buttons

Note: G3X Touch system must be running software revision 5.70 or later.....P/N 11-16219 ..... ---

GARMIN GSU 25C UNIT ONLY 010-01071-50

The GSU 25 is an Air Data Attitude Heading Reference System (ADAHRS) for aircraft flying up to 465 knots Indicated Air Speed*.

Air Data and Attitude Input for G3X Touch

- Provides highly accurate and reliable referencing of the aircraft position, rate, vector and acceleration data
- Designed for aircraft flying up to 465 knots Indicated Air Speed (IAS)
- Allows flexibility in choosing mounting positions
- Enhance system redundancy by installing multiple ADAHRS units

P/N 11-18423 ..... ---

GARMIN GHA 15 HEIGHT ADVISOR MODULE

The GHA 15 height advisor offers above-ground-level (AGL) altitude reference at a cost-effective price. It brings radar-based accuracy, aural callouts and visual height indication to pilots of experimental and light sport aircraft equipped with Garmin G3X Touch™ Experimental displays.

Digital Height Advisories: Like other radar-based systems, the GHA 15 height advisor works by transmitting radio waves downward from your aircraft. When the signal is reflected from the surface, the system determines the precise height by using the time delay it takes to receive the signals back.

An All-In-One Module: The compact GHA 15 module is slightly larger than a deck of cards and weighs less than a pound (0.45 kg). The antenna and radar transceiver are built in to the unit, making for easy installation on the underside of you aircraft.

Digital Display Options: The GHA 15 module is compatible with the G3X Touch flight displays to provide visual height advisory readouts.

Audible Height Callouts: Starting at 300 AGL, pilots who have the GHA 15 audio outputs connected will hear altitude callouts at select intervals down to 1 above the surface. These callouts are user-configurable as to how long the prompts go.

Advance Processing: The GHA 15 height advisor can intelligently process hundreds of altitude measurements per second and apply advance digital filters to maintain an accurate continuous reading of your AGL Altitude.

Peace-of-Mind Technology: An affordable solution for experimental and light sport aircraft, the GHA 15 height advisor leverages proprietary Garmin signal processing technology to provide a smooth-tracking AGL altitude reference, even in challenging terrain environments.

P/N 10-07524 ..... ---

GARMIN GTX 335 DIGITAL TRANSPONDER - EXPERIMENTAL

All-inclusive 1090 MHz ADS-B "Out" Transponder Solution:
• Satisfies NextGen equipage requirements for ADS-B "Out" • 1090 MHz output enables aircraft to operate at any altitude, in air space around the globe • Combines Mode S Extended Squitter (ES) transponder and optional WAAS/GPS position source in a single unit • Useful display features include flight time, count-up and count-down timers, plus current pressure altitude readout •Easy replacement for your existing transponder, with common 1.65 inch tall form factor

PANEL MOUNT		
Part No.	**Description**	**Price**
11-14167	GTX 335 with 4ft harness	---
11-14168	GTX 335 with custom harness	---
11-15036	GTX 335 GPS with custom harness	---
REMOTE		
Part No.	**Description**	**Price**
11-14171	GTX 335R with 4ft harness	---
11-14172	GTX 335R with custom harness	---
11-14173	GTX 335R GPS with 4ft harness	---
11-14174	GTX 335R GPS with custom harness	---
11-16516	GTX 335 Install Rack	---
11-17385	GTX 335 Back Plate	---

GARMIN GTX335 ADS-B TRANSPONDER WITH GPS + GAE 12 ENCODER PROMO KIT FOR CERTIFIED AIRCRAFT

Note: This promotional kit may be sold to certified aircraft. It includes a GA 35 WAAS antenna, offering customers a completely standalone ADS-B "Out" solution .....P/N 11-18880 ..... ---

GARMIN GTX 345 DIGITAL TRANSPONDER - EXPERIMENTAL

All-in-one Transponder Solution for ADS-B "Out" and "In" • 1090 MHz ADS-B "Out" enables aircraft to operate at any altitude, in airspace around the globe • Combines Mode S Extended Squitter (ES) transponder and optional WAAS/GPS position source in a single unit • Provides access to dual-link ADS-B "In" traffic and subscription-free weather on compatible displays • Wirelessly stream weather, traffic, GPS position and backup attitude via Connext™ link to Garmin Pilot™ and ForeFlight Mobile apps as well as the aera® 795/796 portables • Easy replacement for your existing transponder, with common 1.65-inch tall form factor

PANEL MOUNT		
Part No.	**Description**	**Price**
11-14175	GTX 345 with 4ft harness	---
11-14176	GTX 345 with custom harness	---
11-14177	GTX 345 GPS with 4ft harness	---
11-14178	GTX 345 GPS with custom harness	---
11-14158	Unit only without GPS	---
REMOTE		
Part No.	**Description**	**Price**
11-14179	GTX 345R with 4ft harness	---
11-14180	GTX 345R with custom harness	---
11-14181	GTX 345R GPS with 4ft harness	---
11-14182	GTX 345R GPS with custom harness	---

GARMIN GMA 342 AUDIO PANEL

Affordable Audio Control for Your Certified Avionics.
Draws on top-end Garmin audio technology for "home theater" quality sound with dedicated music volume knobs for pilot and copilot. 3D Audio processing helps pilots "locate" inputs coming into their headsets, Advanced Auto Squelch technology automatically adapts to quiet or noisy environments without clipping words or cutting out during conversation. Digital voice recorder offers instant replay of comm radio inputs.
Offers slide-in replacement upgrade for GMA 340 and select third-party audio panels.
For pilots who want the best of the basics in audio control, combined with rich "home theater" quality sound, the GMA 342 all-digital audio panel is a perfect fit. It's affordably priced yet loaded with features previously found only on high-end audio management systems. Plus, for easy system upgrade, it offers direct slide-in replacement for legacy GMA 340 or select third-party audio control panels. So it doesn't take long for your installer to pull out the old and slide in the new.
P/N 11-14973 ..... ---

GARMIN GMA 345 AUDIO PANEL WITH BLUETOOTH®

Bluetooth® Audio Panel for Your Certified Avionics. Bluetooth connectivity enables easy access to phone calls and audio entertainment. Draws on top-end Garmin audio technology for "home theater" quality sound with dedicated music volume knobs for pilot and copilot. 3D Audio processing helps pilots "locate" inputs coming into their headsets. USB charging port provides power for smartphones, tablets, music players and more. Offers slide-in replacement upgrade for GMA 340 and select third-party audio panels.

Description	**Part No**	**Price**
GMA 345	11-14972	---
GMA 345 New 3-Comm Version	10-06606	---

GARMIN GTX 325 MODE C TRANSPONDER

Offering a simple, affordable replacement for standard Mode C transponder units in aircraft that don't fly in ADS-B mandated airspace — or that will be equipped with a separate UAT ADS-B transceiver solution — the GTX 325 transponder is a reliable, TSO-certified problem solver. Its solid-state design works to maximize service life and assure dependable ATC traffic surveillance.
Note: For ADS-B compliance, the GTX 325 requires that the aircraft is equipped with a UAT ADS-B solution, like the GDL 82.
P/N 11-17184 ..... ---

For a quote on complete custom panels for experimental aircraft please email: avionics@aircraftspruce.com

GARMIN GAE12 ALTITUDE ENCODER

Conveniently mounts to the transponder back plate for easy installation and service, precluding the need for a static leak check after removal of the transponder for maintenance. The altitude encoder is configured using either the configuration interface on the display units or via the PC based install tool. The encoder can be used at altitudes up to 30,000ft.& can be configured to output the data to a GTN Navigator. This unit is only compatible with the GTX 335(R)/345(R) .....P/N 11-14162 ..... ---

GARMIN GNC 355 GPS NAVIGATOR / COMM RADIO

• Slim, all-in-one touchscreen GPS navigator and Comm radio for Part 23 Class I/II aircraft (weighing less than 6,000 lbs) and experimental / amateur-built aircraft • Take advantage of WAAS GPS navigation with LPV approaches, which offer minimums as low as 200' to greatly expand your operational capability • Built-in 10-watt Comm radio with 25 kHz or optional 8.33 kHz channel spacing (with GNC 355A) plus standby frequency monitoring and automatic frequency identification • Pairs with select Garmin flight displays, or integrates directly with your existing course deviation indicator (CDI) for cost-effective installation¹ • Visualize your entire flight plan, including departures, arrivals, instrument approaches, holding patterns and more on a rich, dynamic global moving map • Wirelessly transfer flight plans and stream weather, traffic, GPS position and backup attitude via built-in Connext® technology to the Garmin Pilot™ app and more.
P/N 11-17439 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GARMIN GTR 205 VHF COMM RADIO FOR CERTIFIED AIRCRAFT

Designed for both fixed-wing aircraft and helicopters, the GTR 205 is a versatile radio that can serve in a variety of aircraft types and panel installations. The 1.3-inch height form factor matches previous-generation SL30 and SL40 radios, enabling easier upgrades and creating more room in space constrained panels. Pilot-selectable 25 kHz or 8.33 kHz channel spacing provides global capability. The radio features a sunlight-readable color LCD display, indicating the currently tuned active and standby frequencies, as well as their station ID – such as KOJC TWR or KSLE ATIS.

Standard Kit.....P/N 11-20312 ..... ---
Heli Standard Kit .....P/N 11-20313 ..... ---

GARMIN GTR 205X VHF COMM RADIO FOR EXPERIMENTAL AIRCRAFT

Description	Part No.	Price
Garmin GTR 205X COMM Experimental Only	11-20342	---
14V Kit With Exp 4 Foot Harness To Audio Panel	11-20241	---
28V Kit With Exp 4 Foot Harness To Audio Panel	11-20303	---
With - 4 Foot Pigtail And Jacks - 14V	11-20403	---
With - 4 Foot Pigtail And Jacks - 28V	11-20404	---
Garmin GTR® 205XR (Remote Mount)	11-20348	---

GARMIN GNC 215 NAV/COMM RADIO FOR CERTIFIED AIRCRAFT

Designed for both fixed-wing aircraft and helicopters, the GNC 215 is a versatile radio that can serve in a variety of aircraft types and panel installations. The 1.3-inch height form factor matches previous-generation SL30 and SL40 radios, enabling easier upgrades and creating more room in space constrained panels. Pilot-selectable 25 kHz or 8.33 kHz channel spacing provides global capability. The radio features a sunlight-readable color LCD display, indicating the currently tuned active and standby frequencies, as well as their station ID – such as 'KOJC TWR' or 'KSLE ATIS'.

Standard Kit.....P/N 11-20316 ..... ---
Heli Standard Kit .....P/N 11-20317 ..... ---

GARMIN GTR GNC 215 NAV/COMM RADIO FOR EXPERIMENTAL AIRCRAFT

Description	Part No.	Price
Garmin GNC 215 NAV/COMM Experimental Only	11-20316	---
14V Kit Experimental 4 Foot Pigtails & Jacks	11-20406	---
28V Kit Experimental 4 Foot Pigtails & Jacks	11-20405	---
Garmin GNC 215 NAV/COMM Experimental Only Heli	11-20317	---

GNC 255B / GTR 225B NVG

NVG Capable COM and NAV radios. The GNC NAV/COM and GTR COM series of radios are now even better with the addition of new, NVG capable versions.

GNC255B Standard.....P/N 10-05787 ..... ---
GTR225B Standard.....P/N 10-05788 ..... ---

GARMIN® GNX™ 375 GPS NAVIGATOR + ADS-B OUT / IN TRANSPONDER WITH HARNESS

LPV Approaches and ADS-B "In"/"Out," Priced for Your Aircraft Slim, all-in-one touchscreen GPS navigator and ADS-B transponder for (weighing less than 6,000 lbs) and experimental/amateur-built aircraft

with 4 Ft Harness .....P/N 11-17276 ..... ---
with Custom Harness .....P/N 11-17530 ..... ---

GARMIN GPS 175 GPS NAVIGATOR WITH GA 35 GPS ANTENNA KIT STC

Big capabilities come in a small package with the GPS 175 navigator. With its bright, clear high-resolution touchscreen display, you can have the advanced navigation functions you've always dreamed of. Entering flight information is a cinch, and accessing every function is fast and easy. It's equally at home in certificated aircraft or an experimental aircraft. And it's the same 2" height as older navigation equipment and can allow you to keep the legacy composite CDI already in your aircraft to minimize installation cost[1]. That makes GPS 175 the smart, affordable way to add next-generation navigation to your favorite airplane.

GPS 175 + GA 35 GPS Antenna.....P/N 11-17226 ..... ---
GPS 175 + GI 275 CDI .....P/N 11-20284 ..... ---
GPS 175 + GNC 215 NAV COMM .....P/N 11-20285 ..... ---

GARMIN GMA 350 AUDIO PANEL

Note: Per Garmin we cannot sell the GMA 350 to certified aircraft. For experimental aircraft please contact us for the wire harness form that is required and allow 2-3 weeks to ship.

The first truly all-digital audio panel, Garmin's GMA 350 introduces a number of new technologies to the cockpit, including voice recognition, 3-D audio processing, advanced auto squelch and more.

GMA 350 Audio Panel.....P/N 11-09667 ..... ---
GMA 350H Audio Panel .....P/N 11-09668 ..... ---
GMA 350C (Standard) w/ install kit.....P/N 11-13824 ..... ---
GMA 350C (Remote) w/ install kit.....P/N 11-13825 ..... ---
GMA 350HC (Helicopter) w/ install kit.....P/N 11-13826 ..... ---

The Garmin GMA 350 can only be sold over the counter to expermental aircraft (must verify) with harness. For certified aircraft, it must be installed by a Garmin Dealer. Please call 1-800-826-3160 for partner shop location for certified installs. (price of installation not included)

GARMIN GMA 35 REMOTE AUDIO PANEL

****Note: Per Garmin, Aircraft Spruce can only offer this product to experimental aircraft with harness****

Features: • Remote mounted for use with the GTN 750 series • 6 or 7 position intercom: pilot, copilot, 4 or 5 passengers • 3 stereo headset amplifiers: pilot, copilot and passengers • 2 stereo music source inputs • Up to 8 selectable intercom operational modes with synoptic intercom routing • Independent pilot, copilot and passenger intercom volume controls • Individual VOX processing for each MIC input • Automatic selection of radio audio source when corresponding MIC is selected • Automatic volume adjustments based on ambient sound levels • Flexible split COMM transceiver function. Copilot may transmit and receive on one COMM while pilot transmits and receives on another. • Marker beacon receiver..... P/N 11-12196..... ---

GARMIN GTN 635XI GPS / COMM / MFD SYSTEM FOR EXPERIMENTAL AIRCRAFT

Note: Per Garmin, even though this product is certified, we can only sell over the counter to experimental aircraft (must verify) with wire harness. For certified aircraft, you will have to fly to a Garmin install dealer .

The 2.64" GTN 635xi puts high resolution terrain mapping, graphical flight planning, multiple weather options and traffic display right at your fingertips. GTN 635

Touch & Go - With its revolutionary touchscreen interface, GTN 635 puts primary functions just a few taps away. Pan across the map screen by swiping your finger across the 4.9" high-resolution TFT display, and enter waypoint data with the onscreen alphanumeric entry. Raised grips in the bezel and a shelf across the lower edge of the display serve as gripping points in both smooth and turbulent flight conditions. Traditional concentric knobs are also available for data input. If you have a GNS 430W/530W, active flight plans automatically crossfill from the GTN to the GNS, or just manually crossfill user waypoints between devices.

Unit with 4ft Wire Pigtail Americas.....P/N 11-17832 ..... ---
Unit with 4ft Wire Pigtail International.....P/N 11-17833 ..... ---
Unit with Custom Wire Pigtail Select at Purchase
P/N 11-12958 ..... ---

AV

GARMIN GNX 375 GPS NAVIGATOR & ADS-B OUT/IN TRANSPONDER

LPV Approaches and ADS-B "In"/"Out," Priced for Your Aircraft. Includes GA-35S antenna. Slim, all-in-one touchscreen GPS navigator and ADS-B transponder for Part 23 Class I/II aircraft (weighing less than 6,000 lbs) and experimental/amateur-built aircraft Take advantage of WAAS GPS navigation with LPV approaches, which offer minimums as low as 200' to greatly expand your operational capability Built-in 1090 MHz ES transponder meets ADS-B "Out" requirements, while dual-link ADS-B "In" receiver provides a display of traffic and subscription-free weather. Pairs with select Garmin flight displays, or integrates directly with your existing course deviation indicator (CDI) for cost-effective installation¹ Visualize your entire flight plan, including departures, arrivals, instrument approaches, holding patterns and more on a rich, dynamic global moving map Wirelessly transfer flight plans and stream weather, traffic, GPS position and backup attitude via built-in Connext® wireless technology to the Garmin Pilot™ app and more.

GNX 375 with GA 35S for Certified.....P/N 11-20435 ..... ---
GNX 375 with GA 35S for Certified International
P/N 11-20436 ..... ---

GMA™ 245/245R AUDIO PANELS

GMA 245 and GMA 245R, all-digital, Bluetooth audio panels designed for experimental amateur-built (EAB) and light sport aircraft (LSA). The GMA 245 is a panel-mount audio panel with a rich set of convenient and simple-to-use controls, designed to interface with the G3X Touch™ flight display. These Bluetooth-enabled audio panels boast superior sound quality and an impressive list of additional features such as industry-leading auto squelch, music bass boost, advanced equalizer settings, 3D Audio processing, wireless integration with the VIRB® XE action camera and more.

GMA 245 Panel Mount.....P/N 11-14308 ..... ---
GMA 245R Remote Mount.....P/N 11-14309 ..... ---

GMA 245R AUDIO PANEL REMOTE MOUNT 6 PLACE STEREO

Combines Bluetooth® Wireless Music, Phone, 3D Audio and More. A remote-mount version of the Garmin GMA 245 audio panel for experimental amateur-built (EAB) and light sport aircraft (LSA), GMA 245R is designed specifically to interface with the latest G3X Touch flight displays — putting a world of work-saving, communication-enhancing digital features at your fingertips. .....P/N 11-14309 ..... ---

GAD™ 29B DATA BUS CONVERTER PMA FOR CERTIFIED AIRCRAFT

GAD 29 is an affordable ARINC 429 avionics data bus module that can be used to interface up to 2 IFR-capable GPS navigators with the G3X, G3X Touch and G5 series electronic flight displays. It can also be used to adapt the GTX 800 series active traffic system for use with G3X and G3X Touch displays.
This compact GPS/navigation data adapter, when installed with the GTN 750 or GTN 650 series or legacy GNS 530 or GNS 430 navigators, can enable such advanced features as GPS steering, WAAS LPV vertical approach guidance, HSI map navigation, coupled VNAV and more for access via your compatible flight display system .....P/N 11-15450 ..... ---

GAD 29 ARINC 429 INTERFACE

The GAD 29 is an affordable ARINC 429 avionics data bus module that can be used to interface up to 2 IFR-capable GPS navigators with the G3X, G3X Touch and G5 series electronic flight displays. It can also be used to adapt the GTX 800 series active traffic system for use with G3X and G3X Touch displays. This compact GPS/navigation data adapter, when installed with the GTN 750 or GTN 650 series or legacy GNS 530 or GNS 430 navigators, can enable such advanced features as GPS steering, WAAS LPV vertical approach guidance, HSI map navigation, coupled VNAV and more for access via your compatible flight display system .....P/N 11-11454 ..... ---

GARMIN G3X GMC 307 CONTROL PANEL

High-end Capability for your G3X™. Dedicated controller for advanced Garmin autopilot modes. Control wheel for altitude selection. Dedicated heading and altitude knobs. LVL mode button commands automatic recovery from steep or unusual attitudes. Allows for standalone operation of the autopilot. The GMC 307 control panel offers a dedicated interface for G3X autopilots in experimental and light sport aircraft ..... P/N 11-13822 ..... ---

GARMIN GDL® 50 PORTABLE ADS-B / GPS RECEIVER

Note: For use with the Garmin Pilot App and other Garmin Portable systems only. **Note** 2: GDL 50 can only receive ADS-B information in the USA. Wirelessly Link to Weather, Traffic, GPS and More. Receive subscription-free animated U.S. datalink weather¹ via ADS-B "In". ADS-B "dual-link" traffic with TargetTrend™ and TerminalTraffic™ technology3. Wireless connectivity for display on select mobile device apps and Garmin portables.

GDL-50 .....P/N 11-16232 ..... ---
GDL-50R (Remote) Standard.....P/N 11-16233 ..... ---
GDL-50R (Remote) Certified.....P/N 11-18239 ..... ---

GDL® 51 SIRIUSXM / GPS RECEIVER

Providing an easy-to-use and completely portable aviation satellite link, the compact GDL 51 SiriusXM receiver lets you access continuous, detailed weather information — plus more than 150 channels of digital-quality music, news, sports and other entertainment programming. Better still, you can use our Connext® wireless connectivity to stream SiriusXM services onto multiple Garmin aviation portables (including aera® 660, aera 796 or aera 795 series) as well as iPad® tablets and other mobile devices with the Garmin Pilot™ app. So you get more access — on more devices — without spending more money.

GDL 51 Portable.....P/N 11-15317 ..... ---
GA 24 Antenna for GDL® 51 / 52 .....P/N 11-17587 ..... ---

GDL® 52 ADS-B/SIRIUSXM / GPS RECEIVER

Note: For use with the Garmin Pilot App and other Garmin Portable systems only.
Note 2: GDL 52 can only receive ADS-B information in the USA.
Receive SiriusXM Aviation satellite weather and digital audio entertainment¹ plus subscription-free ADS-B U.S. datalink weather² and traffic. ADS-B "dual-link" traffic with TargetTrend™ and TerminalTraffic™ technology3. Wireless connectivity for display on select mobile device apps and Garmin portables. Provides GPS position data, backup attitude5 and more. Receive the first three-months of a monthly subscription to the SiriusXM Pilot Preferred aviation weather package and the SiriusXM All Access audio programming package at no cost with GDL 52.

GDL 52 Portable.....P/N 11-15315 ..... ---
GDL 52R Remote Standard .....P/N 11-15316 ..... ---
GA 24 Antenna for GDL® 51 / 52 .....P/N 11-17587 ..... ---
GDL 52R Remote Certified .....P/N 11-18235 ..... ---

GLO™ 2 AVIATION PORTABLE GPS / GLONASS RECIEVER

Navigate with Garmin caliber GPS data on the mobile device of your choice. The GLO 2 receiver brings you the best of both worlds by combining GPS and GLONASS receivers with Bluetooth® wireless technology so you can enjoy precise position information on your iPad®, iPhone® or Android™ device.
• GLO 2 can receive position information from both the GPS and GLONASS satellite constellations, allowing it to connect to up to 24 more satellites than devices that rely on GPS alone. This allows GLO 2 to lock on to satellites approximately 20% faster and remain connected even at high speed. What's more, GLO 2 updates its position information at 10 times per second; that's up to 10 times more often than the GPS receivers in many mobile devices.....P/N 11-16754 ..... ---
Device Only .....P/N 11-16755 ..... ---
Garmin Glo Replacement Battery.....P/N 11-12857 ..... ---

BASE MOUNT FOR GDL® 51 / 5 MOUNTING BRACKET

Stability and mobility all in one! Our base mount will keep your compatible aviation unit secure and in reach for navigating on the fly.
P/N 11-15524 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GARMIN AERA 760 7 INCH TOUCHSCREEN PORTABLE GPS NAVIGATOR

The aera® 760 is a premium all-in-one aviation portable complete with a built-in GPS/GLONASS receiver that is purpose-built for the pilot and cockpit.The aera 760 boasts a 7-inch bright, sunlight readable touchscreen display that can run on battery power for up to four hours on a single charge. Along the bezel, an industry-standard USB-C connection is used to charge and power the aera 760, while a microSD card slot allows pilots to load topography and street maps or use it to easily transfer user waypoints. The aera 760 features an intuitive user-interface resembling that of many other popular Garmin products such as the GTN™ Xi series, G3X™ Touch and Garmin Pilot™ allowing pilots to easily transition between multiple Garmin products in the cockpit. Capable of operating in harsh conditions, the aera 760 has also been tested and hardened to meet stringent temperature and vibration standards. **Flight Plan Features** New to the aera 760, pilots can load departures, arrivals and instrument approach procedures (IAPs) within a flight plan, which can be wirelessly transferred to a navigator in the cockpit. Once a procedure is loaded within the aera 760, pilots have the option to view the chart or they can overlay it on the moving map. IFR enroute charts, VFR sectionals and Garmin FliteCharts® are also geo-referenced, providing optimal situational awareness. Jeppesen electronic charts are compatible with the aera 760 and give customers worldwide access to instrument approach chart information. In addition to procedures, victor airways, user-defined holds and holds over an existing navigation fix can be entered into a flight plan.

Features: • Garmin WireAware™ • Internet Weather • Automatic Data Downloads • Up to 4 Hours Battery Life • Connext® • TargetTrend™ (When paired with compatible devices) • TerminalTraffic™ (When paired with compatible devices) • Smart Airspace • 3D Vision with Virtual Behind-the-Aircraft Perspective View • 3D Representation of Surrounding Terrain and Obstacles

North America.....P/N 11-18255 ..... ---
South America.....P/N 11-18256 ..... ---

ACCESSORIES

AERA 660 / 760 USB CABLE ADAPTER

Garmin USB Cable Adapter - For Aera 660 / 760 units.
P/N 10-07140 ..... ---

AERA 760 USB CABLE - TYPE C TO TYPE C

Connect this cable to a USB C port to recharge your compatible device and to transfer data to and from your computer. This cable also pairs with an optional AC adapter (sold separately)....P/N 11-18977 ..... ---

AERA 760 USB CABLE - TYPE A TO TYPE C

Connect this cable to a USB A port to recharge your compatible device and to transfer data to and from your computer. This cable also pairs with an optional AC adapter (sold separately) .
P/N 11-18976 ..... ---

AERA 760 AVIATION MOUNT

Expand the connections of your aera 760 with this aviation mount. Using compatible mounting hardware, this aviation mount can be used to position the aera 760 conveniently in your aircraftP/N 11-18891 ..... ---

BARE WIRES CABLE FOR AERA 760

Connect your Aviation Mount (aera® 760) to compatible avionics and power systems using this cable.
P/N 11-18298 ..... ---

AERA 760 AVIATION MOUNT CABLE - CIGARETTE LIGHTER ADAPTER

Connect your Aviation Mount (aera® 760) to your aircraft's cigarette lighter socket using this cable. In addition to providing power to your aera 760, this cable also has an audio out option - allowing you to connect your aera 760 to your aircraft's audio system.
P/N 11-19043 ..... ---

CARLISLE CAN24TST120 - CAN BUS CABLE

GARMIN recommends the use of P/N CAN24TST120(CIT) cable to interface the CAN Bus on G3X, G5, GMU11, GAD29B, GFC500, GMC507, GSA28, etc.
Note: Please refer to GARMIN's STC Installation Manual for specific details .....P/N 11-17264 ..... ---

GARMIN AERA 660 GPS

Affordable feature-rich navigation, stunning display and streamlined database updating. This compact 5" capacitive touchscreen boasts a bright, sunlight readable display complete with rich, interactive maps and a built-in GPS/GLONASS receiver that can be viewed in portrait or landscape modes for optimum customization. The aera 660 encompasses many of the features of the renowned aera® and GPSMAP® aviation portable series, adding Connext® wireless capabilities, Garmin WireAware™ wire-strike avoidance technology and more. Cost-effective database options along with built-in Wi-Fi® database updating capabilities allow customers to more easily access the most up-to-date data, including daily U.S. fuel prices. Bluetooth® supports the display of ADS-B "In" traffic and weather1 from a variety of sources, including the GDL® 39/GDL 39 3D, Flight Stream and the GTX 345 ADS-B transponder.

North America.....P/N 10-06025 ..... ---

ACCESSORIES

Aera 660 Aviation Cradle, CLA - Aviation Mount with Power Cable and Audio Jack. .....P/N 10-06027 ..... ---
Aera 660 Aviation Cradle Bare Wires - Connect the bare wires to a panel mount to transfer data .....P/N 10-06028 ..... ---
Aera 660 Aviation Cradle GDL - Receive ADS-B benefits with this connected mount.....P/N 10-06029 ..... ---
Aera 660 Ball and Socket Mount Kit.....P/N 11-14476 ..... ---
Aera 660 Rectangular Base with 1 inch Ball Mount
P/N 11-14474 ..... ---
Aera 660 Orentiation Yoke Mount .....P/N 11-14478 ..... ---

GARMIN AERA 660 / 760 USB CABLE ADAPTER

Garmin USB Cable Adapter - For Aera 660 / 760 units.
P/N 10-07140 ..... ---

GARMIN FLIGHT STREAM 510

Advanced Connectivity and Revolutionary Avionics Integration. Enables Database Concierge wireless avionics database updates. Permits 2-way flight plan transfers between compatible apps and avionics¹. Initiate phone calls and send/receive text messages from contacts on your Apple® device, using the Garmin Pilot™ app through your compatible avionics, optional Connext® datalink and service plan. Streams traffic, weather, GPS information and back-up attitude information from your avionics to select portables and mobile devices. Lets mobile devices wirelessly control SiriusXM™ satellite music from any position in the cabin.
P/N 11-14578 ..... ---

GARMIN FLIGHTSTREAM 110 / 210

Part of the Garmin Connext™ family of flight connectivity solutions, the Flight Stream 110/210 is a small wireless gateway that is easily installed in your aircraft, enabling a combination of up to 4 compatible tablets or phones to stream information to and from your avionics system via Bluetooth®. The Flight Stream 110 offers GPS, attitude, weather and traffic streaming from the GDL 88 ADS-B datalink and GDL 69 SiriusXM™ datalink, while the Flight Stream 210 adds the capability for flight plan syncing with the GTN 750/650 series and GNS 430W/530W series navigators as well as the ability to display attitude information using an on-board AHRS¹.

Description	Part No.	Price
110 With Custom Harness	11-13327	---
110 Without Harness	11-13059	---
210 With Custom Harness	11-13326	---
210 Without Harness	11-13058	---

GARMIN GIGAFLIGHT CAN BUS CABLE

The GF120-24CANB-1 is an Aerospace grade CAN Bus approved by Garmin for use with Garmin's CAN Bus System architecture.
CAN Bus is designed to be a 120 ohm Twinax, which means the insulation thickness is increased to achieve 120 ohms between the conductors. The increased thickness creates an issue with contact extraction because the insulation OD is larger than the contact.

Per Foot.....P/N 11-17890..... ---
500 Foot Spool .....P/N 11-17890-500..... ---
1000 Foot Spool .....P/N 11-17890-1000..... ---

AV

GARMIN WATCHES

GARMIN D2™ AIR X10 AVIATOR SMARTWATCH

You're a pilot. You need aviation in your GPS smartwatch. You also want to monitor your health plus take calls and send texts from your wrist when connected with a compatible smartphone.
The D2 Air X10 includes preflight, in-flight and postflight features and tools to assist pilots in navigation and enhance situational awareness. Direct-to navigation lets pilots navigate straight to an airport or waypoint in the preloaded worldwide database directly from the watch, or choose the Nearest function to activate a direct course to a nearby airport. The instrument-like horizontal situation indicator (HSI) course needle makes it easy for pilots to see if the aircraft is left or right of the desired flight path, and the barometric altimeter can alert them when they've reached their desired altitude. Aviation alerts like time, distance, altitude and a fuel timer are also available on the D2 Air X10 during flight.
Flight logging is a breeze with the D2 Air X10, which automatically starts tracking flights on takeoff, then automatically transfers the date, duration, total flight time and route to the user's flyGarmin.com logbook. Pilots can also seamlessly transfer flight plans from the Garmin Pilot app to the D2 Air X10 and view the list of waypoints included in their route when the D2 Air X10 is paired to the app on a compatible smartphone.
Black.....P/N 11-19096 ..... ---
Ivory.....P/N 11-19095 ..... ---

GARMIN D2™ MACH 1 PRO AVIATOR SMARTWATCH

A built-in LED flashlight offers variable white light intensities, a strobe function and red light for flight deck operations. Improved battery life touts up to 25 days in smartwatch mode and up to 46 hours in the Fly activity, perfect for the professional pilots who complete their trip over multiple days.
Red Shift Mode changes the entire watch interface to shades of red to help preserve night vision, which provides for potentially clearer sight for demanding night flying conditions.
The ECG app2 allows users to record their heart rhythm and check for signs of atrial fibrillation (AFib). Users can take a 30-second ECG recording and view the results immediately on their smartwatch and, optionally, later in the Garmin Connect™ smartphone app.
When pilots aren't taking to the skies, they can get a better understanding of their fitness levels and track their performance with more than 30 built-in sports apps and advanced training features like hill score and endurance score.
Specifications:
- Lens Material - Sapphire Crystal
- Bezel Material - Titanium
- Case material - Fiber-reinforced Polymer with Titanium Rear Cover
- QuickFit™ Release Bands - Yes, 26mm Included
- Strap material - Titanium & Silicone
- Physical size - 51 x 51 x 15 mm
  - Fits wrists with the following circumference:
  - Silicone Band: 127-210 mm
  - Leather Band: 135-225 mm
  - Titanium Band: 132-215 mm
- Weight - 126 g (Case Only: 60 g)
- Water Rating - 10 ATM
- Touchscreen
- Display Type - AMOLED
- Display Size - 1.4" (35.56 mm) Diameter
- Display resolution - 454 x 454 pixels
- LED Flashlight
- Battery life - Smartwatch mode: Up to 25 days
  - Fly activity (GPS + SpO2): Up to 46 hours
  - All Satellite Systems: Up to 62 Hours
  - All Satellite Systems with Music: Up to 17 Hours

P/N 11-20075 ..... ---

GARMIN D2™ MACH 1 AVIATOR SMARTWATCH

With classic style and a modern AMOLED touchscreen display, this premium smartwatch offers advanced tools for flying — plus health and fitness features that enhance your pilot life.
Features: • AMOLED touchscreen display keeps you informed at a glance, even under bright sunlight • Use the worldwide aeronautical database, moving map and HSI to help navigate — plus the emergency mode displays information that helps you land in an emergency • Access aviation weather, including NEXRAD, METARs, MOS2 and TAFs — plus configure alerts to keep you informed about weather and more • View airport info, including runway orientation (including wind components1), lengths and airport frequencies • Utilize the Pulse Ox3 sensor to monitor blood oxygen levels and the barometric altimeter for altitude alerts • Battery life up to 11 days in smartwatch mode, up to 24 hours in GPS with SpO2 mode; battery saver mode option allows user to adjust settings that have the largest impact on battery life • Connect with the Garmin Pilot™ app to transfer flight plans to the watch plus log your flights directly on the watch1 • Find new ways to move with more than 30 built-in indoor and GPS sports apps, including HIIT, running, strength training, breathwork, cycling, yoga, Pilates, cardio, indoor climbing and many more • Monitor your health and wellness with the Health Snapshot™ feature, sleep score, respiration tracking, Pulse Ox3, Body Battery™ energy monitoring, hydration tracking, all-day stress tracking and 24/7 heart rate monitoring4 • Download songs and podcasts from your favorite music providers — including Spotify, Amazon Music and Deezer — right to your watch, and connect with your wireless headphones for phone-free listening (storage for up to 650 songs); premium subscription may be required.
D2™ Mach 1 Titanium Band .....P/N 11-19157 ..... ---
D2™ Mach 1 Leather Band.....P/N 11-19158 ..... ---
D2™ Mach 1 Pro Titanium Band.....P.N 11-20075 ..... ---

GARMIN MARQ® AVIATOR GPS WATCH GEN 2

MARQ® Aviator the quest for excellence has reached new heights. You live for the rush. Your desire for exploration is unrelenting. You demand the finest. You want a modern tool watch that reflects your passion for flight. Uncompromising by Design: It's timeless and true. This purpose-built luxury modern tool watch features a hardened swept-wing titanium bracelet, stunning AMOLED touchscreen display with traditional button controls and a 46 mm case made of Grade-5 titanium for an ultradurable design. Direct-to Navigation: Navigate straight to a location or waypoint in the worldwide aeronautical database. Or choose the Nearest function to activate a path to a nearby airport. Moving Map: Pan across the moving map with a touch, and tap on waypoints for more information. Plus, see NEXRAD radar overlaid on your route. Jet Lag Advisor:Help minimize the effects of jet lag with guidance on light exposure, sleep schedule and exercise on your next long-distance trip. Enter your travel details in the Garmin Connect™smartphone app calendar, and track how your body clock is adjusting to your new destination. Weather Reports: Access aviation weather, including METARs, TAFs and MOS, to see winds, visibility, barometric pressure and more.
Specifications: • Lens Material: Domed Sapphire Crystal • Bezel Material: Titanium (Grade 5) • Case Material: Titanium (Grade 5) • QuickFit Watch Band Compatible: Yes (22 mm) • Physical Size:Diameter x Thickness: 46 x 15 mm • Touchscreen: Yes • Color Display: Yes • Display Size: 1.2" (30.4 mm) Diameter • Display Resolution: 390 x 390 pixels • Display Type: AMOLED (always-on) • Water Rating: 10 ATM • Battery Life: Smartwatch: Up to 16 days (6 days always-on) • Battery Saver Watch Mode: Up to 21 days • GPS Only: Up to 42 hours (30 hours always-on) • All Satellite Systems: Up to 32 hours (24 hours always-on) • All Satellite Systems + Multi-band: Up to 28 hours (22 hours always-on) • All Satellite Systems + Music: Up to 10 hours (9 hours always-on)
In The Box: • Strap • USB-C/magnetic charger cable • Documentation
Hardened Titanium Strap .....P/N 11-19702 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GARMIN PILOT™ AVIATION APP

Garmin is excited to announce Garmin Pilot, a new aviation app for the iPad, iPhone, and Android mobile devices. The app brings Garmin's industry-leading aviation technology to mobile devices; offering pilots complete trip planning, DUATS filing, weather, navigation and electronic flight bag capabilities. Garmin Pilot is the perfect complement to our extensive line of aviation navigation products and services. Garmin Pilot incorporates the intuitive icon user interface and many of the same great features from our other popular products. Pilots will find it very familiar and easy to use. The Garmin Pilot app will help with every facet of your trip - Planning, Filing, and Flying. **Note: Garmin Pilot app only serves USA for charts and navigation. Expanded coverage expected in future.**

Pro with Safe Taxi and Geo-Ref Charts .....P/N 13-11867 ..... ---

GARMIN USB AVIATION GNS™ SERIES PROGRAMMER

Garmin USB Aviation Data Card Programmer for the GNS series of products. Boasting improved performance and RoHS compliance (allowing global availability), this data card programmer enables customers to transfer terrain and obstacle databases from flygarmin.com with unprecedented speed and efficiency. The data card programmer offers greatly enhanced transfer speeds, ensuring that dealers and customers alike spend less time in front of the computer. When transferring Terrain and Obstacle databases to GNS 430/530 WAAS and non-WAAS data cards, users can expect up to 80% faster transfer speeds. This data card programmer is backwards compatible with previous Terrain data cards, so a data card is not required ..... P/N 10-05931 ..... ---

GARMIN INREACH® MESSENGER SATELLITE COMMUNICATOR

Built for those who want a quick and easy way to reach loved ones when they're without cellular coverage, inReach Messenger provides seamless satellite communication either as a standalone device or when paired to the new Garmin Messenger companion app for smartphones. This new app leverages Wi-Fi®, cellular and satellite connectivity for two-way texting and group messaging. The Messenger companion app will automatically choose between Wi-Fi, cellular or satellite connectivity to ensure every message is sent and received. In the event of an emergency, the inReach Messenger and Messenger App2 can send an SOS message to the 24/7 staffed Garmin International Emergency Response Coordination Center (IERCC).

When paired with the inReach Messenger, users can sync with their smartphone's contacts list with the companion app to make staying in touch even easier. For the most efficient messaging, the companion app will send messages, post to social media or communicate with fellow adventurers through a cellular or Wi-Fi connection when available, then automatically switch to the 100% global Iridium® satellite network when no longer in cellular or Wi-Fi range.....P/N 11-19340 ..... ---

GARMIN INREACH® MINI 2 SATELLITE COMMUNICATOR

Small, rugged, lightweight satellite communicator enables two-way text messaging via 100% global Iridium satellite network (satellite subscription required). Trigger an interactive SOS to the 24/7 search and rescue monitoring center (satellite subscription required). Access downloadable maps, U.S. NOAA charts, color aerial imagery and more by using the free Garmin Earthmate app and compatible devices. Optional inReach weather forecast service provides detailed updates directly to your inReach Mini 2 or paired device; basic and premium weather packages available. Send and receive inReach messages through compatible Garmin devices, including connected wearables and handhelds. Internal, rechargeable lithium battery provides up to 50 hours of battery life in 10-minute tracking mode.

Flame Red.....P/N 11-19184 ..... ---
Black.....P/N 11-19183 ..... ---

INREACH ACCESSORIES

Description	Part No.	Price
Inreach SE Adjustable Handheld Mount	11-15020	---
Inreach SE Friction Mount	11-15025	---
Inreach Powered Mount with Suction Cup	11-15027	---
Inreach Powered Mount	11-15026	---
Inreach SE Backpack Tether	11-15021	---
Inreach SE Spine Mount Belt Clip	11-15023	---
Inreach SE Swivel Belt Clip	11-15028	---

GARMIN INREACH® MESSENGER PLUS SATELLITE COMMUNICATOR

Tell them you miss them. Show them the view. Share the experience. With an active inReach subscription, the trailblazing inReach Messenger Plus SOS satellite communicator1 lets you exchange text, photo and voice messages2 when your adventure takes you beyond cellular range. Plus, the durable design withstands extreme temperatures, and the battery lasts for weeks. Exchange texts, photos and voice messages without cell service. Pair with the Garmin Messenger™ smartphone app for group messaging and more. Trigger an interactive SOS message to Garmin response℠, our 24/7-staffed international coordination center. Use the Garmin explore™ smartphone app to plan your trip, track your activity and more. Easily navigate back to where you started with the Tracback® routing feature. Use the Garmin messenger™ app to share your GPS location via live tracking. .....P/N 11-20520 ..... ---

QREF GUIDES FOR GPS UNITS

Now you've got a choice. The quick reference books feature easy-to-use tabbed pages for concise procedures and navigation help in a compact size, prefect for someone who wants complete information or is new to a system. The cards provide all the essential information in a 5" x 8" full-color, hard plastic card for those who are already familiar with their system. Either way, Qref keeps you in the know, quickly and easily.

GPS Model	Card P/N	Price	Book P/N	Price
Garmin aera	13-07064	---	13-07063	---
GPSMAP 195	13-06355	---	13-06291	---
GPSMAP 196	13-06356	---	13-06292	---
GPSMAP 295	13-06357	---	13-06293	---
GPSMAP 296	13-06360	---	13-06294	---
GPSMAP 396	13-06362	---	13-06295	---
GPSMAP 495	13-06362	---	13-06313	---
GPSMAP 496	13-06362	---	13-06315	---
GPSMAP 696/695	13-06363	---	13-06316	---
GMX200	13-06353	---	---	---
GNS 430	---	---	13-06288	---
GNS 480/CNX80	13-06418	---	13-06289	---
GNS 530/430	13-06354	---	13-06290	---
G1000 Card	13-06417	---	---	---
G1000 non WAAS	---	---	13-06423	---
G1000 WAAS	---	---	13-06424	---
Garmin Cirrus	---	---	13-06425	---
AIRMAP 2000C	13-06365	---	13-06317	---
AIRMAP 600C	13-06364	---	13-06318	---
AV8OR	13-06348	---	13-06287	---
AV8OR Ace	13-07066	---	13-07065	---
GEOPILOT II	13-06347	---	13-06286	---
EKP-II			13-06285	---
EKP	13-06322	---	---	---
KLN 89B	13-06368	---	---	---
KLN 90B	13-06367	---	---	---
KLN 94	13-06366	---	13-06422	---
KLN GX Series	13-06369	---	---	---
Avidyne Entegra version 3-5	---	---	13-06358	---
Avidyne Entegra version 6-7	---	---	13-06359	---

VISIT OUR WEBSITE FOR A COMPLETE LIST OF QREF GPS GUIDES.

GARMIN D2 CHARGING AND DATA CABLE

Complete 2 tasks with 1 cable using our charging/data clip. Connect the cable to your computer's USB port to recharge your compatible device and to transfer data to and from your computer.

Compatibility with Devices:

• D2 Air • D2 Charlie • D2 Delta • D2 Delta PX • D2 Delta S

P/N 11-18501 ..... ---

GARMIN 2-WAY SPLITTER - 500 OHM - BNC

Garmin 500 OHM 2-Way BNC Splitter. Ideal for use in installations of Garmin devices, the 013-00112-00 is a coaxial power splitter and/or combiner, ideal for usage in VHF and UHF applications, instrumentation, and communication systems.

P/N 11-17819 ..... ---

GARMIN HIGH SPEED MULTI CHARGER

Add 2 high-speed USB ports to your vehicle's 12 V outlet without losing the ability to power your compatible device. Use each USB port to charge a phone, tablet or any other device that needs power on the go.

Specifications: • Input: 10-30v 5.4A max • Output USB: 4.75-5.25v 2.1A • Output Socket: 10v 2.4A max ->30v 0.8A max .....P/N 11-12113 ..... ---

AV

DYNON D3 POCKET PANEL PORTABLE EFIS

D3 lets pilots supplement their unreliable legacy instrumentation with an affordable, portable electronic attitude indicator that works. The D3 features the same reliable, proven AHRS engine from Dynon's best-selling panel-mounted products for experimental, light sport, and type certificated aircraft.
The D3 comes with a complete set of accessories, including home and airplane chargers, an optional external GPS antenna, and two unique mounting options. Both the included cockpit mounting options require no tools, allowing the D3 to be deployed in any aircraft with no FAA approval. The first mount included is a RAM® suction cup mount. The second is a 3-1/8" portable "pinch" mount that allows the D3 to be easily mounted in an empty existing instrument panel hole without any fasteners .....P/N 10-06727 ..... ---

DYNON SKYVIEW SV-GPS-2020 GPS / ADS-B RECEIVER

The SV-GPS-2020 GPS Receiver/Antenna from Dynon Avionics allows existing and SkyView and Advanced AF-5000 series customers to add a 2020-compliant GPS position for ADS-B Out. As a drop-in replacement for the existing SVGPS-250 receiver, existing customers do not need to run any additional wires, coax, or install any new boxes in their aircraft. When combined with Dynon's SV-XPNDR-261 Mode-S transponder, SkyView and Advanced Flight Systems customers meet all the transponder and ADS-B Out requirements. Pilots can also add the SVADSB-470 Traffic and Weather Receiver for the best possible situational awareness in their aircraft
P/N 10-05909 ..... ---

DYNON SV-COM-X83 TRANSCEIVER

By integrating deeply with your Dynon SkyView system, the SkyView COM Radio tunes frequencies by airport and station type - rather than by spinning in a number - at the touch of a button. You can also send frequencies over from the SkyView map airport info pages. For when you're feeling nostalgic (or are following ATC instructions), a dual concentric knob lets you spin in frequencies "the old fashioned way." SkyView will identify the airport and station type as you tune to help ensure you're talking to the right radio station. The SV-COM-X83 adds 8.33 kHz channel spacing. P/N 10-07446 ..... ---

DYNON SV INTERCOMS

For ALL experimental and light sport aircraft. Ample inputs for EFIS systems, stereo music, and all the other technology in your panel. High-Fidelity Audio Circuitry, Dual Radio Support, Fail-safe between the pilot headset, Horizontal and Vertical faceplates are both included; headset jack kits also included. Selectable Auto Mute, and Independent intercom Voice Activation.
Specifications: • Muting Inputs: 1x stereo, differential, noise-rejecting music input, with panel-mounted music jack override. 1x mono input for additional muting source • Non-muting Inputs: 1x stereo, differential, noise-rejecting EFIS input. 3x mono inputs for radios and other avionics. One of these is fail-safed to the pilot headset • Headsets: 2x stereo headsets supported • Radio Outputs: 2x com radio outputs. External PTT selector required • Dimensions: 3.5" (89.71mm) x 1.80" (45.72mm) x 4.18" (106.17mm) • Weight: 7.2 oz (204g) • Input Voltage: 10-30V DC • Power Usage: 0.1A at 14V Vertical Mount.
P/N 10-05254 ..... ---

DYNON EMS TO ADAHRS/ ARINC MODULE STACKING KIT

The EMS to ADAHRS/ARINC Module Stacking Kit can be used to attach the SV-ADAHRS-200 or the SV-ARINC-429 module directly to the SV-EMS-220 module, simplifying the installers challenge of finding room for, as well as designing and fabricating mounting brackets for the SkyView electronic modules. By fastening the Module Stacking Plate to the top surface of the SV-EMS-220 module, the ARINC or ADAHRS module may then be attached, stacking the two modules together.
This kit provides the Module Stacking Plate, and all of the hardware needed to stack and install the modules .....P/N 10-07385 ..... ---

DYNON D30 TOUCHSCREEN ELECTRONIC FLIGHT DISPLAY

Meet the latest addition to the Dynon product line: The Dynon D30 Touchscreen Electronic Flight Display. The D30 serves as a backup set of flight instruments in SkyView HDX systems.
The D30 features a large 4", sunlight readable, high resolution touchscreen display.
An integrated backup battery provides up to 5 hours of runtime in the event of aircraft power failure, giving pilots confidence that they have access to critical flight information when it is needed most
Compact at only 3.7" deep, the D30 mounts in a slightly modified 3-1/8" instrument hole via a docking ring mounting bracket. The bracket allows for one-screw installation and removal of the instrument.
P/N 10-07684 ..... ---

DYNON ACM JUMP START KIT

The Advanced Control Module "ACM" Jump Start Kit will provide you with a solid well-engineered foundation for your aircraft's electrical system and panel wiring.
The ACM is the main power distribution center for the aircraft's electrical system - avionics, headsets, aircraft lights, autopilot servos, trim servos, flap motor, control sticks and panel switches all get connected to the ACM. Using the ACM with its plug-and-play features vastly simplifies an aircraft's wiring and troubleshooting. The ACM also makes future upgrades incredibly easy. Want to add an IFR Navigator in the future? No problem, just plug it into the ACM NAV-COM and GPS NAVIGATOR plugs. The complex and time consuming (Audio Panel, GPS RS-232 data, NAV ARINC data and GPS ARINC) wiring is already done.
The ACM Jump Start Kit includes the Advanced Control Module and everything you need connect a Skyview or Advanced EFIS, Backup Battery, Transponder, ADS-b receiver, and SV-GPS using our plug-and-play harnesses.
ACM Jump Start Kit Skyview HDX .....P/N 10-07668 ..... ---

DYNON AVIONICS SKYVIEW ENGINE MONITOR MODULE FOR ROTAX 912IS

Dynon Avionics announces SkyView support for the Rotax 912iS engine. Engine parameters available from the 912iS engine computer include RPM, manifold pressure, oil pressure, oil temperature, coolant temperature, EGT for all four cylinders, ECU voltage, and engine hours. All the other normal SkyView SV-engine functions are still available using the SV-EMS-221, such as fuel level, trim position, battery voltage, and contacts. A 912iS-specific engine sensor kit that includes the engine wiring harness, a Kavlico fuel pressure sensor, and an amps shunt are also available. See Accessories.
Enginge Monitor Module .....P/N 10-04941 ..... ---
Probe Package.....P/N 10-04942 ..... ---

DYNON FASTTRACK ESSENTIALS FOR SKYVIEW HDX

IFR Version

Note: Compatible with SkyView HDX only. Not compatible with SkyView Classic, Touch, or SE.
Whether it be a new installation or a retrofit, FastTrack Essentials makes your SkyView system installation easier and faster than ever before.
FastTrack Essentials provides you with the essential modules every system requires, mounted to a module mounting tray and networked together with SkyView network cables and a SkyView Network Hub.
IFR.....P/N 10-07397 ..... ---
VFR .....P/N 10-07398 ..... ---

DYNON COM/XPNDR MODULE MOUNTING KIT

The COM/Transponder Module Mounting Tray Kit simplifies the retrofit of the Dynon remote mounted COM and Transponder transceivers by mounting these modules in the radio rack where previous rack mounted COM and Transponder transceivers were located. This allows the installer to use existing wiring and antenna cabling. While intended to fasten to an existing radio rack, the Module Mounting Tray can also be adapted to mount these modules anywhere in your airplane .....P/N 10-07390 ..... ---

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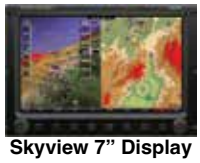
Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

Skyview 10" Display

DYNON SKYVIEW EFIS / EMS / GPS / AUTOPILOT SYSTEM

SkyView is the latest glass-panel solution from Dynon Avionics, featuring a full PFD with synthetic vision, moving map with terrain and obstacles, engine monitor, and autopilot. Very bright, high-resolution screens with full dimming control provide excellent visibility in all conditions, while two multi-position control knobs allow easy user input. The full-color PFD features a full set of flight instruments over a highly-detailed 3D synthetic vision display, while your aircraft's position is shown on a moving map with color-coded terrain, obstacles, and airport/airspace information. In addition, the SkyView will accommodate full engine monitor display and a dual-axis autopilot through the addition of optional Dynon hardware. SkyView systems come standard with Dynon's three-year factory limited warranty.
Dimensions: • 10" display: 10.32" W x 7.06" H x 2.14" D • 7" display: 7.64" W x 5.51" H x 2.14" D


Skyview 7" Display

Product Group	Dynon P/N	Description	Spruce P/N	Price
Screens	102864-00	Dynon Skyview HDX 10" Display Only	10-06236	---
--	102865-000	Dynon Skyview HDX 7" Display Only	10-06237	---
--	104769-000	Dynon Skyview 12" HDX Display Only SV-HdX1200	10-07667	---
EFIS/EMS/ GPS Components	SV-ADAHRS-200	SkyView ADAHRS - First w/ OAT Probe	10-03936	---
--	SV-ADAHRS-200 & 201	SkyView ADAHRS - Dual	10-04018	---
--	101293-00	SkyView Secondary ADAHRS - Requires Primary	10-03937	---
--	SV-EMS-220	SkyView Engine Monitoring Module	10-03938	---
--	SV-GPS-250	SkyView GPS 5Hz Receiver Module	10-03939	---
--	SV-BAT-320	SkyView Backup Battery	10-03940	---
--	SV-ETHER-NET-3CC	Dynon Ethernet Cable	10-04679	---
--	SV-HAR-NESS-D37	Dynon Display Harness with Wiring	10-03941	---
--	101406-000	Skyview ARINC Adapter	10-04520	---
--	SV-VPX-290	SkyViewVerticalPowerUnlockCode	10-04810	---
--	SV-NET-1.5CC	Network Cable – Both ends with connectors, 1.5' long Aircraft Grade Tefzel® Wiring	10-05615	---
--	SV-NET-3CC	Network Cable - Both ends with connectors, 3' long	10-03942	---
--	SV-NET-6CC	Network Cable - Both ends with connectors, 6' long	10-03943	---
--	SV-NET-10CP	Network Cable - 1 end with connector, 1 end with pins only, 10'	10-03944	---
--	SV-NET-15CP	Network Cable - 1 end with connector, 1 end with pins only, 15'	10-03945	---
--	SV-NET-20CP	Network Cable - 1 end with connector, 1 end with pins only, 20'	10-03946	---
--	SV-NET-25CP	Network Cable - 1 end with connector, 1 end with pins only, 25'	10-04619	---
--	SV-NET-30CP	Network Cable - 1 end with connector, 1 end with pins only, 30'	10-04620	---
--	SV-NET-HUB	Network Hub	10-04904	---
--	SV-NET-SPL	Network Splitter	10-03948	---
--	SV-NET-SERVO	Network Autopilot Servo Wiring Kit Includes 20	10-04491	---
Control Knobs	SV-KNOB-PANEL/H	SkyView Knob Control Panel (Horizontal)	10-05614	---
--	SV-KNOB-PANEL/V	SkyView Knob Control Panel (Vertical)	10-05613	---
--	--	Dynon SkyView ADS-B with 4 Ft Harness	11-11938	---
--	--	Dynon SkyView ADS-B with Custom Harness	11-11939	---
Transponders	101409-000	SkyView SV-XPNDR-261 Mode S Class 1	10-04518	---
--	--	SkyView Mode S Class 1 Transponder with 4 ft Harness	11-11953	---
--	--	SkyView Mode S Class 1 Transponder with Custom Harness	11-11954	---
--	101410-000	SkyView SV-XPNDR-262 Mode S Class 2	10-04519	---
--	--	SkyView Mode S Class 2 Transponder with 4 ft Harness	11-11948	---
--	--	SkyView Mode S Class 2 Transponder with Custom Harness	11-11949	---
	102388-000	Dynon Skyview Remote Magnetometer	10-05884	---
	102532-000	Dynon Dual ADAHRS Mounting Kit	11-14152	---
--	101711-003	Dynon Kavlico Lyc. / Cont. 4 Cyl Fuel Probe Package	10-04830	---

Product Group	Dynon P/N	Description	Spruce P/N	Price
--	101711-005	4 Cyl. Jabiru Probe Package	10-04832	---
--	101711-006	6 Cyl Jabiru Probe Package	10-04833	---
--	100403-003	Dynon EMS Fuel Flow Sensor 1/4" NPT Female	10-01165	---
--	100654-000	Dynon Capacitance to Volt Converter	10-02159	---
--	100433-003	Dynon Avionics Skyview Oat Probe SV-OAT-340	10-07406	---
A/P Control	SV-AP-PANEL/H	SkyView Autopilot Control Panel (Horizontal)	10-05612	---
--	SV-AP-PANEL/V	SkyView Autopilot Control Panel (Vertical)	10-05611	---
Servos	SV32	Standard output arm, Retail Includes SV32:100754-000,Limiting Braket Kit: 101025-000	10-03561	---
--	SV32C	Capstan, Includes SV32C: 100754-002, Capstan Accessory Kit: 101116-000	10-03950	---
--	SV32L	Long Output Arm, Includes SV32L: 100754-001, Limiting Bracket Kit: 101025-000	10-03562	---
--	SV42C	Capstan, Includes SV42C: 101008-002, Capstan Accessory Kit: 101116-000	10-03951	---
--	SV42	Standard output arm, Includes SV42: 101008-000, Limiting Bracket Kit: 101025-000	10-03563	---
--	SV42L	Long Output Arm, Includes SV42L: 101008-001, Limiting Bracket Kit: 101025-000	10-03564	---
--	SV52	Standard Output Arm, Includes SV52: 101021-000, Limiting Bracket Kit: 101025-000	10-04492	---
--	SV52C	Capstan, Includes SV52C: 101021-002, Capstan Accessory Kit: 101116-000	10-04493	---
Servo + Mounting Kit Packages	--	RV-6 Roll Servo + Mounting Kit: Includes Servo mounting kit RV-6 roll(fuselage):101020-001, pkg SV32L (long output arm): 100854-001	10-03555	---
--	--	RV-7/8 Roll Servo + Mounting Kit: Includes Servo Mounting kit- RV-7/8 roll (R wing): 101020-003, pkg SV32 (std. output arm): 100854-000	10-03556	---
--	--	RV-9 Roll Servo + Mounting Kit: Includes Servo Mounting kit-RV-9 roll (R wing): 101020-004, pkg SV32 (std. output arm): 100854-000	10-03557	---
--	--	RV- 4/8 Pitch Servo + Mounting Kit: Includes Servo Mounting kit- RV-4/8 Pitch: 101020-002, pkg SV32 (std. output arm): 100854-000	10-03560	---
--	--	RV-6/7/9 Pitch Servo + Mounting Kit: Includes Servo Mounting Kit- RV-6/7/9 Pitch: 101020-005, pkg SV32 (std. output arm): 100854-000	10-03559	---
--	--	RV-10 Roll Servo + Mounting Kit Package: Includes servo mounting kit RV-10 roll (right wing): 101020-003, SV42 (std output arm): 101058-000	10-04076	---
--	--	RV-10 Pitch Servo + Mounting Kit: Includes servo mountign kit RV-10 pitch (fuselage): 101020-006, pkg SV42 (std output arm): 101058-000	10-03893	---
Servo Push Rod Kits	--	Servo Push Rod Kit-Generic (Push-Pull)	10-03567	---
Wifi Adapter	102405-00	Dynon Skyview Wifi Adapter	10-05867	---

DYNON SKYVIEW ADS-B

Dynon's dual band ADS-B receiver receives weather & traffic on both 978 MHz and 1090 MHz frequencies. The dual band SV-ADSB-472 receives ADS-B traffic via 978 MHz (UAT) and 1090 MHz. In the US, it also receives free text and graphical weather from the FAA's network of ADS-B ground stations. Unlike portable ADS-B receivers, you get FULL ADS-B and radar traffic when you pair this with our Mode-S transponder. The remote mounted receiver utilizes an externally mounted antenna for superior ADS-B reception..... P/N 10-06419 .....---

DYNON SKYVIEW DISPLAY / ENGINE PACKAGES

We have put together these avionics packages using only the latest in Dynon technology. All Dynon bundles are for experimental application. These bundles do include some cost savings versus buying each item individually so take advantage and get your panel set up in one quick order.
Easy Ordering:
Step 1: Select your preferred Dynon display package based on number and size of screens you need.
Step 2: Select your engine probe package based on your engine application.
Step 3: Select optional Unlock Code (Sold separately)
Note: We can create a custom package with any combination of avionics units we carry so please contact our sales department if one of the combinations above is not exactly what you need.

Package	Contents	Part No.	Price
Skyview Lycoming / Continental 4 Cyl Carbureted Engine Pack	Engine Monitor Module Without Probes Kavlico Probe Package - 4 Cyl. Lycoming / Continental Carbureted	10-05532	---
Skyview Lycoming / Continental 4 Cyl Fuel Injected Engine Pack	Engine Monitor Module Without Probes Kavlico Probe Package - 4 Cyl. Lycoming / Continental Fuel Injected	10-05533	---
Skyview Lycoming / Continental 6 Cyl Carbureted Engine Pack	Engine Monitor Module Without Probes Kavlico Probe Package - 6 Cyl. Lycoming / Continental Carbureted	10-05534	---
Skyview Lycoming / Continental 6 Cyl Fuel Injected Engine Pack	Engine Monitor Module Without Probes Kavlico Probe Package - 6 Cyl. Lycoming / Continental Fuel Injected	10-05535	---
Skyview Rotax 912 Engine Pack	Engine Monitor Module Without Probes Kavlico Probe Package - Rotax 912	10-05536	---
Skyview Jabiru 4 Cyl Engine Pack	Engine Monitor Module Without Probes Kavlico Probe Package - 4 Lycoming Jabiru 2200	10-05537	---
Skyview Jabiru 6 Cyl Engine Pack	Engine Monitor Module Without Probes Kavlico Probe Package - 6 Lycoming Jabiru 3300	10-05538	---

DYNON SKYVIEW HDX SYSTEMS

SkyView HDX features improved displays, beautiful design, unrivaled control ergonomics, and an upgraded touch interface. SkyView HDX displays are compatible with all existing SkyView components and feature identical mounting profiles and electrical connections.

Description	Part No.	Price
10" SkyView HDX Display only, (no harness) (Includes SV-SYNVIS-280 Synthetic Vision, SV-MAP-270 Navigation Mapping)	10-06236	---
7" SkyView HDX Display only (no harness) (Includes SV-SYNVIS-280 Synthetic Vision, SV-MAP-270 Navigation Mapping)	10-06237	---
12" SkyView HDX Display only (no harness) (Includes SV-SYNVIS-280 Synthetic Vision, SV-MAP-270 Navigation Mapping)	10-07667	---

DYNON SKYVIEW TRIM MOTOR ADAPTER

For Experimental Aircraft Only
The Trim Motor Adapter, combined with the autopilot control panel, allows applicable electric trim systems to connect to the skyView system to provide the SkyView Trim Controller and the SkyView Auto-Trim functions.
P/N 10-07396 ..... ---

DYNON AUTOPILOT SERVO + MOUNTING KIT PACKAGES

Dynon Avionics servos are dimensionally identical to other leading servos for drop-in upgradability. Behind the scenes, though, the SV line of servos are all-new. A lightweight aluminum case houses a stainless steel gear train to optimize weight while not sacrificing strength. The servo control arm is captured by a castellated nut and secured by a cotter pin, just like other critical interfaces in your aircraft. Each servo is managed by its own microprocessor, making the servo an active, smart extension of the autopilot. This simplifies the control-surface-to-servo calibration, and prevents the servo from driving itself endlessly like other servos can. As an ultimate mechanical failsafe, a simple and effective shear pin is employed to let you break the servo free of the aircraft control surface in an emergency.

Description	Part No.	Price
RV-6 Roll Servo + Mounting Kit (Includes Servo mounting kit RV-6 roll (fuselage):101020-001, pkg SV32L (long output arm): 100854-001	10-03555	---
RV-7/8/10 Roll Servo + Mounting Kit (Includes Servo Mounting kit RV-7/8/10 roll (R wing): 101020-003, pkg SV32 (std. output arm): 100854-000	10-03556	---
RV-9 Roll Servo + Mounting Kit (Includes Servo Mounting kit RV-9 roll (R Wing):101020-004, pkg SV32 (std. output arm): 100854-000	10-03557	---
RV-6/7/9 Pitch Servo + Mounting Kit (Includes Servo Mounting Kit- RV-6/7/9 Pitch: 101020-005, pkg SV32 (std. output arm): 100854-000)	10-03559	---
RV- 4/8 Pitch Servo + Mounting Kit(Includes Servo Mounting kit- RV-4/8 Pitch : 101020-002, pkg SV32 (std. output arm): 100854-000	10-03560	---
RV-10 Pitch Servo + Mounting Kit: (Includes Servo mounting kit RV-10 pitch (fuselage): 101020-006, pkg SV42 (std output arm): 101058-000	10-03893	---

DYNON SV-BUTTON-IDENT TRANSPONDER IDENT BUTTON

Dynon SV-Button-Ident Transponder Ident Button .....P/N 10-07403 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GARMIN GTX 35R ADS-B KIT

Advanced ADS-B "Out" Solution for Experimental Aircraft. Integrates with G3XTM series flight displays for fingertip control and squawk code entry. Satisfies NextGen requirement for ADS-B "Out" when paired with a GPS position source. Provides 1090 MHz ES (Extended Squitter) output for operations at any altitude, in airspace around the world. Simplifies installation with remote-mount design that saves panel space. Offers low power consumption and enhanced reliability.

Specifications:

- Physical dimensions (unit, rack, connectors): for panel mounts, depth is measured from face of instrument panel: 1.65" x 6.30" x 9.9" (42 x 160 x 224 mm)
- Display type: N/A
- Weight (unit, rack, connectors): 2.5/2.6 lbs (1.13/1.18 kg)
- Voltage range: 14/28 VDC (15/17 W Max)
- Transmit power: 200 W minimum
- Temperature: -45° C to +70° C
- Operating altitude: To 55,000 ft (16,800 m)
- Cooling input: Not required .....P/N 11-14575 ..... ---

GARMIN GTX 45R KIT

Complete ADS-B Solution for Experimental Aircraft. Integrates with G3XTM series flight displays for fingertip control and squawk code entry. Satisfies NextGen requirement for ADS-B "Out" when paired with a compatible GPS position source. Provides 1090 MHz ES (Extended Squitter) output for operations at any altitude, in airspace around the world. Supports dual-link ADS-B "In," which provides the most complete traffic picture, plus subscription-free weather on select avionics, mobile devices and portables[1]. Streams weather, traffic, GPS position and backup attitude via Connext® to Garmin Pilot™ and ForeFlight Mobile apps as well as aera® 795/796 and aera 660 portables.

Specifications:

- Physical Dimensions (unit, rack, connectors): 1.65" x 6.30" x 9.9" (42 x 160 x 224 mm)
- Weight (unit, rack, connectors): 2.8/2.9 lbs (1.27/1.32 kgs)
- Voltage range: 14/28 VDC (18/20 W Max)
- Transmit power: 200 W minimum
- Tempertaure: -45°C to +70°C
- Operating altitude: To 55,000 ft (16,800 m)
- Cooling input: Not required

Standard.....P/N 11-14574 ..... ---
With GPS.....P/N 11-07525 ..... ---

TRIG TN70 ADS-B SYSTEM

If you already own a suitable Trig transponder then our TN70 kit is the easiest way to meet the mandate. The TN70 includes a certified WAAS GPS and companion WAAS GPS antenna, designed to enhance your aircraft via a simple install that will deliver excellent ADS-B Out performance. If you need a Trig transponder to complete your TN70 ADS-B solution, then simply add one of our class leading products certified to FAA TSO C166b, the latest ADS-B standard. A Trig transponder is the hub of an ADS-B Out system, using 'extended squitter' to communicate with ground stations and suitably equipped aircraft. It's worth remembering; if you intend to use ADS-B In to access ADS-B ground services (TIS-B and FIS-B) then a compliant ADS-B Out must be installed. A Trig transponder is an ideal way to ensure your ADS-B Out is compliant.

TN70.....P/N 11-13061 ..... ---

TRIG 2020 ADS-B BUNDLE

Many pilots are equipping with ADS-B and Trig provides solutions for both certified and uncertified aircraft owners. Trig's 2020 ADS-B Bundle, for light-sport, experimental and home builders. Trig's ADS-B kit contains all the certified components needed to allow flight in 2020 rule ADS-B airspace for these aircraft types. The ADS-B Bundle features; Trig's highly popular TT22 compact transponder, the latest TN72 X GPS Position Source (certified to TSO-C199) and the matching TA70 GPS antenna. This provides a fully compatible ADS-B Out solution that meets the requirements of FAR 91.227 for light-sport and experimental aircraft. Customers will save by purchasing the bundle over the regular price.....P/N 11-16299 ..... ---

KING KGX 150R ADS-B UAT RECEIVER

ADS-B Receiver with optional WIFI, best optimized for those who fly above and below 18,000 feet or want to replace their existing transponder with the KT 74 1090 extended squitter transponder. Also includes an integrated ADS-B OUT Compliant WAAS GPS. The KGX 15OR provides the ADS-B traffic and weather services to non-certified wireless tablet or certified compatible panel display. No external controller is needed.

Specifications:

- Size 5"W x 5.75" Dx 1.7" H
- Less than 1 pound
- Mode A/C and Mode S transponder interface
- 2 ARINC 429; 1 RS 485 and 4 discrete inputs
- 1 Arinc 429; 4 RS 232/422 and 2 discrete outputs
- 10-40 VDC input voltage
- .02 A @ 12 VDC Input Current
- 6.5 VDC Output Voltage

KGX150R .....P/N 11-15381 ..... ---
KT74/KGX150R Package.....P/N 11-15380 ..... ---

ACR BIVY STICK TWO WAY SATELLITE COMMUNICATOR

Use the Bivy Stick to turn your cell phone into a satellite communication device. With global satellite coverage via the Iridium satellite network, anywhere you have a view of the sky, you can communicate through the Bivy Stick. While conveniently compact, the Bivy Stick still offers a comprehensive feature set including two-way text messaging, SOS, location sharing, one-touch Checkin, and detailed weather reports sent straight to your cell phone via satellite. Additionally, offering a feature not provided with many other satellite communicators, the Bivy Stick provides users with a dedicated phone number and email. This important feature allows unsolicited incoming messages, meaning that those that are most important to you can reach you at any time, without the need for you to initiate contact.....P/N 11-18802 ..... ---

ZOLEO 2-WAY \ GPS MESSENGER WITH BLUETOOTH

Meet ZOLEO, the affordable accessory that extends your smartphone messaging coverage to everywhere on Earth and provides a safety system you can count on. When you're beyond cell coverage your ZOLEO device connects with our free app on your phone so you can send/receive messages anywhere on the planet via the Iridium satellite network. When you're within cell coverage, the ZOLEO app seamlessly delivers messages over cellular and Wi-Fi. You'll always get the message, even if your ZOLEO satellite communicator device is turned off!

Ruggedly designed, location-aware and Iridium-based, the ZOLEO satellite communicator device will keep you connected and secure when venturing beyond cell coverage (*Active subscription plan required to transmit messages over the Iridium satellite network.).

P/N 11-18871 ..... ---

AITHRE METIS IN-FLIGHT

Metis extends Aithre's oxygen monitoring technology to in-flight atmospheric conditions. Using a single under the wing elegant probe, the Metis provides real-time temperature, humidity, and dewpoint readings, enabling you to monitor for icing and cloud levels relative to your aircraft. Analog outputs are provided for temp, dewpoint, and humidity, allowing universal input to your EFIS, such as Dynon and the G3x, or any other engine monitoring type avionics system. Moreover, the Metis is enabled for wireless communication to the Aithre Connect iOS app to put the same data on your Apple device. When using the Aithre Connect app, the Metis provides real-time estimations of relative cloud bases and freezing levels based on standard lapse rates relative to the aircraft..... P/N 11-19047 ..... ---

UAVIONIX TAILBEACONX MODE S ADS-B TRANSPONDER

The next era of global ADS-B. Compatible with space and ground-based ADS-B surveillance systems, tailBeaconX is a Mode S Extended Squitter ADS-B transponder and WAAS GPS integrated into an LED rear position light. With global compliance, tailBeaconX is the key to limitless destinations.

Specifications:

Physical Specifications:

• Width: 42.53mm • Height: 110.38mm • Depth: 112.75mm • Weight: 3.5 oz (100 grams) • Operating Temperature Range: -45°C to +70°C • Maximum Pressure Altitude: 60,000ft • Input Voltage Range: 9 to 33 VDC • 14V Current: 0.5A Max • 28V Current: 0.25A Max

Mode S Transponder Specifications:

• Transmit Frequency: 1090 MHz • Transmit Power: 54dBm (250W) • Receive Frequency: 1030 MHz • ATCRBS Sensitivity: -74 dBm • Mode S Sensitivity: -74 dBm

Position Light Specifications:

• Color: Aviation White • Intensity: 20 candelas

EXPERIMENTAL

Unit with AV-20 Control Head.....P/N 11-17912 ..... ---

CERTIFIED

Unit Only.....P/N 11-18363 ..... ---

Unit with AV-30-C EFIS.....P/N 11-18367 ..... ---

UAVIONIX TAILBEACON NAV LIGHT ADS-B OUT - TSO

uAvionix tailBeacon is the latest all-in-one ADS-B solution from uAvionix. Remove your standard rear position light and replace with the tailBeacon for ADS-B compliance. It is a 2020 compliant, near zero-install, Class B1S ADS-B UAT transmitter and WAAS GPS integrated into a rear position light. The power transcoder decodes replies from legacy Mode C and Mode S transponders. Available for Certified and Experimental aircraft.

Specifications: • Input Voltage - 11-31V DC • Operating Power - 3 Watts • 92x43x73mm • 70 grams • SDA/SIL - 2/3 • -45 to 80°C

P/N 11-17246 ..... ---

AV

UAVIONIX SKYBEACON 301 WINGTIP ADAPTERS

This adapter (UAV-301) allows installation of the skyBeacon TSO on a number of Cessna Aircraft.

LAV-301 Left.....P/N 11-16946 ..... ---

UAVIONIX SKYBEACON 302 PORT ADAPTER WINGTIP

This adapter (UAV-302) allows installation of the skyBeacon TSO on the following Cessna aircraft: • 172L, 172M, 172N, 172P, 172Q, 172R, 172S • 172RG • 177B, 177RG • 182P, 182Q, 182R, 182S, 182T, R182, T182, TR182 • 180J, 180K • U206F, U206G • TU206F, TU206G

LAV-302 Left.....P/N 11-18955 ..... ---

LAV-302 Right.....P/N 11-16945 ..... ---

VISIT OUR WEBSITE FOR AIRCRAFT AVAILABILITY.

UAVIONIX SKYBEACON NAV STROBE LIGHT / ADS-B OUT - TSO

skyBeacon is a 2020 compliant, near zeroinstall, Class B1S ADS-B UAT transmitter and WAAS GPS integrated into a wing tip position light. The power transcoder decodes replies from legacy Mode C transponders. 14 CFR §91.227 compliant. Smart phone configurable over WiFi. skyBeacon is a revolutionary new way to equip ADS-B. Simply replace your existing navigation light with skyBeacon and you are ADS-B compliant for 2020.

•2020 Compliance

•Mounts in under 10 minutes

•Lowest total cost of ownership of any ADS-B Out solution

P/N 11-16531 ..... ---

UAVIONIX SKYSENSOR TSO INTEGRATED WINGTIP ADS-B IN SYSTEM FOR CERTIFIED AIRCRAFT

skySensor, for certified aircraft, is the final piece for a complete skyBeacon installation. skySensor isn't just the aesthetic match for your right wingtip, it also includes a dual-band ADS-B receiver, static pressure sensor, and internal GPS. Easily receive traffic and weather via WiFi to GDL90 compatible EFB applications.

Note: skySensor Experimental has been discontinued and superceded to the skySensor TSO version. Homebuilt and experimental aircraft installations should now order and install the TSO version.

Features: • ADS-B In • WAAS GPS • Altimeter • LED Navigation Light • LED Anti-Collision (Strobe)

P/N 11-19766 ..... ---

UAVIONIX PINGUSB DUAL-BAND ADS-B TRAFFIC RECEIVER

pingUSB is the world's smallest, lightest, and most affordable USB dual-band ADS-B receiver.

pingUSB receives ADS-B traffic on both 978MHz and 1090MHz, and delivers real-time position reports to your favorite EFB supporting the GDL 90 protocol, including ForeFlight Mobile, EasyVFR, AirMate, and Oz Runway.

In addition to Wi-Fi EFB capability, pingUSB provides a direct USB connection to PC based applications such as open-source Virtual Radar Server. pingUSB is plug and play compatible with the senseFly eMotion UAS Ground Control Station (GCS) software platform.

Features: • Tracks aircraft equipped with 978MHz and 1090 MHz ADS-B. • Easily integrates with Virtual Radar Server allowing identification and visualization of aircraft in real-time. • Low power consumption and a small/lightweight form factor make it ideal for any application. • Includes USB cable, software, and instructions for easy configuration. • Simple to set up and easy to use. • pingUSB does not process UAT FIS-B products such as weather radar, METARs or TAFs...P/N 11-19767 ..... ---

APPAREO STRATUS EXTERNAL ADS-B ANTENNA

Stratus External ADS-B Antenna Kit - 5'

Includes Stratus 978MHz/1090MHz External Antenna, 5' cable and suction cups for mounting the antenna on your aircraft's windows. Works with all Stratus portables.

P/N 11-14672 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

UAVIONIX AV-30 PRIMARY FLIGHT DISPLAY

"Retro-Fit" Your Cockpit with a Digital Upgrade. Upgrade your legacy vacuum-driven instrument to digital precision attitude and directional gyro customizable display. uAvionix offers a downloadable simulator that allows you to directly explore the AV-30 functionality. Windows only.

Features: • 12-In-1 Functionality: • Primary Attitude • Primary Slip • Primary Direction Indication • Probeless Angle of Attack (AOA) • Indicated Airspeed (KTS / MPH) • Altitude / Vertical Trend / Alerter • +8 / -8 G-Meter • OAT / TAS / Density Altitude • Bus Voltage • GPS Navigational Data Overlay • GPS HSI / 360 Rose / Arc Map Mode • Customizable Colors, Fonts, & Layout • Audio Alerts (AOA, G, Roll Limits)

Certified .....P/N 11-17556 ..... ---

UAVIONIX AV-LINK FOR AV-30

AV-Link is the Wi-Fi module companion to the AV-30 panel display. AV-30 packs a generous feature-set in a surprisingly small form-factor, but with our background, we never settle for anything less than nearly impossible.

AV-Link expands AV-30's feature-bursting heritage and adds Wi-Fi connectivity to support live traffic from a supported ADS-B receiver, wireless firmware updates, and more with future features already in development.

Certified .....P/N 11-20325 ..... ---
Experimental.....P/N 11-18793 ..... ---

UAVIONIX AV-APA ANALOG PORT ADAPTER FOR LEGACY AUTOPILOTS

The AV-APA (analog port adapter) accessory enables aircraft owners with legacy autopilots to replace their old, heavy, vacuum-driven directional gyro with a more capable, lighter, digital AV-30 and potentially remove their vacuum system entirely.

Experimental.....P/N 11-20187 ..... ---
Certified .....P/N 11-20566 ..... ---

UAVIONIX AV-HSI NAVIGATION INTERFACE ADAPTER FOR AV-30

The AV-HSI (Horizontal Situation Indicator) enables essential course and glideslope guidance for ILS (Instrument Landing System) and Localizer Performance with Vertical Guidance (LPV) approaches.

Experimental.....P/N 11-20265 ..... ---
Certified .....P/N 11-20567 ..... ---

UAVIONIX AV-MAG STC EXTERNAL MAGNETOMETER FOR AV-30

AV-Mag external magnetometer is a 3-axis electronic compass. AV-Mag precisely measures the earth's magnetic field and aids the AV-30 directional heading measurement, improving long-term accuracy and consistency. One AV-Mag can support multiple AV-30 displays.

Certified.....P/N 11-19517 ..... ---
Experimental .....P/N 11-19214 ..... ---

UAVIONIX AV-APA EXPERIMENTAL ANALOG PORT ADAPTER FOR LEGACY AUTOPILOTS

The AV-APA (analog port adapter) accessory enables aircraft owners with legacy autopilots to replace their old, heavy, vacuum-driven directional gyro with a more capable, lighter, digital AV-30 and potentially remove their vacuum system entirely.

The AV-APA emulates the analog heading signal used by legacy autopilots to provide heading hold as well as the ability to follow GPS tracks from a portable or IFR GPS.

Features: • Supported Modes include: GPS Desired Track, GPS Track Hold, GPS Bearing, GPS Steering (GPSS*) • Supported Autopilots include: S-TEC Systems 20/30/40/50 • AV-APA Installation Kit includes connectors, connector housings, and pins • New modes and supported autopilots coming soon • *Available when installed with AV-HSI and associated software unlock. P/N 11-20187 ..... ---

UAVIONIX AV-20S MULTI-FUNCTION DISPLAY - CERTIFIED

Complement Your Panel with a Certified (NORSEE) 12-In-1 Display that adds a suite of in-flight information to nearly any panel. Designed to seamlessly fit in a standard 2 1/4-inch round instrument opening, the AV-20-S offers a standby attitude indicator, angle of attack, bus voltage, slip/skid Indication, outside air temperature, density altitude, G meter, and more—all protected with a 30-minute internal battery backup for uninterrupted function in the event of power loss. Now also approved by the FAA as an advanced time-keeping device equivalent and hence a replacement for the sweep-second-hand clocks of old. The unit is considered a replacement for clocks in Part 23, Class I and II IFR aircraft per advisory circular AC 20-94A. AV-20S is FAA Approved.

Features: • Display (Voice Alerting & Peaks) • G-Meter Display (Voice Alerting & Peaks) • Attitude (Roll / Pitch) • Slip / Skid Indication (NEW!) • Clock (GMT / Local) • Outside Air Temperature (C / F) • Bus Voltage Display • Dual User Timers (Count Up / Down) • Engine Run Timer • Flight Timer • Density Altitude Display • True Airspeed Display (Kts / Mph) • Audio Alerts (AoA, G, Roll Limits) ....P/N 11-17557 ..... ---

UAVIONIX AV-20-E MULTI-FUNCTION DISPLAY - EXPERIMENTAL ONLY

Transform your panel without sacrificing simplicity.

Complement Your Panel with a 12-In-1 Display that adds a suite of in-flight information to nearly any panel. Designed to seamlessly fit in a standard 2 1/4-inch round instrument opening, the AV-20-E offers a standby attitude indicator, angle of attack, bus voltage, slip/skid Indication, outside air temperature, density altitude, G meter, and more—all protected with a 30-minute internal battery backup for uninterrupted function in the event of power loss. Now also approved by the FAA as an advanced time-keeping device equivalent and hence a replacement for the sweep-second-hand clocks of old. The unit is considered a replacement for clocks in Part 23, Class I and II IFR aircraft per advisory circular AC 20-94A.

P/N 11-20344 ..... ---

UAVIONIX SKYFYX-EXT GPS ALL-IN-ONE RECEIVER AND ANTENNA

SkyFYX combines a high precision WAAS GNSS sensor with an integrated RAIM processor. Resilient against jamming, spoofing and GPS range errors—SkyFYX provides reliable navigation in challenging environments. SkyFYX is the most affordable ADS-B rule-compliant position source companion for the echoUAT ADS-B transceiver. The SkyFYX meets the performance requirements of 14 CFR 91.227. For use in Exper imental and LSA aircraft.....P/N 11-15215 ..... ---

UAVIONIX TAILBEACON X TSO + AV30-E BUNDLE FOR EXPERIMENTAL AIRCRAFT

The next era of global ADS-B. Compatible with space and ground-based ADS-B surveillance systems, tailBeaconX is a Mode S Extended Squitter ADS-B transponder and WAAS GPS integrated into an LED rear position light. With global compliance, tailBeaconX is the key to limitless destinations. Extend tailBeaconX and your panel's functionality when you pair AV-30 as tailBeaconX's control head. AV-30 also functions as a digital primary AI or DG display with even more features for limitless possibilities. P/N 11-20565 ..... ---

AV

STRATUS 3 PORTABLE ADS-B IN / GPS / AHRS RECEIVER

Stratus 3 is the simple-to-use, portable wireless receiver that provides subscription-free weather, GPS information, backup attitude and ADS-B traffic — integrated with ForeFlight Mobile for your iPad, and now including GDL 90 protocol to work with other flight apps.

Features:
- Free in-flight Weather
- Automatic flight data recorder
- Dual band ADS-B traffic
- WAAS GPS unlocks track up and terrain
- 8-hour battery
- Designed, tested and built in the USA

P/N 11-14468 ..... ---

APPAREO STRATUS ESGI TRANSPONDER AND STRATUS 3I ADS-B RECEIVER - EXPERIMENTAL AIRCRAFT

Stratus ESGi is a kit that contains two products: a certified Stratus ESG transponder, and a non-certified ADS-B receiver.
Features:
- 1090ES (Mode S extended squitter)
- Built-in WAAS GPS
- Meets global mandates for ADS-B Out
- Push-button operation
- Easy-to-use interface
- Pressure altitude monitor

Unit with 4ft Harness.....P/N 11-15482 ..... ---
Unit with Custom Harness.....P/N 11-15484 ..... ---

APPAREO STRATUS MOUNTING CRADLE

Replacement mounting cradle for Stratus 2, 1S, 2S, 2i, 3, and 3i .....P/N 11-17123 ..... ---

AV

APPAREO STRATUS ES DIGITAL TRANSPONDER - EXPERIMENTAL AIRCRAFT

Note: Unit can only be sold for experimental aircraft.
Stratus ES is a 1090 MHz extended squitter (ES) transponder. Designed with the common 1.65″ tall form factor, it's an easy replacement for your existing transponder. Stratus ES is a solid state transmitter that provides 310 watts nominal power output. Its modern keypad makes entering a squawk code easy. The convenient VFR button minimizes pilot keystrokes.
The Stratus ES was built without GPS in order to provide affordable ADS-B Out to aircraft owners who have already invested in WAAS GPS. Stratus ES will make an aircraft rule-compliant when paired with any of the following navigators for 2020 compliance:
Garmin 430W, 530W, 650, 750
Avidyne IFD440, IFD540

ES Unit Only - No Harness.....P/N 11-15407 ..... ---
with 4ft Harness.....P/N 11-15408 ..... ---
with Custom Harness .....P/N 11-15409 ..... ---

APPAREO A&P BUNDLE - WITH STRATUS ESG

The Stratus ESG was designed as a simplified "all-in-one box" solution for 2020 compliance, with non-glass panel aircraft in mind. • ADS-B Out Transponder • Built-in WAAS GPS • GPS antenna included
Stratus ESG is a 1090 MHz extended squitter (ES) transponder with built-in WAAS GPS. Designed with the common 1.65″ tall form factor, it's an easy replacement for your existing transponder. Stratus ESG is a solid state transmitter that provides 310 watts nominal power output. Its modern keypad makes entering a squawk code easy. The convenient VFR button minimizes pilot keystrokes. Note: The Stratus A&P bundle includes a wiring harness and can be purchased over the counter for installation by an A&P. The Stratus A&P bundle includes: Stratus ESG Kit, Stratus 3i Kit, and Wiring Harness.
Features: • 1090ES (Mode S extended squitter) • Built-in WAAS GPS • Meets global mandates for ADS-B Out • Push-button operation • Easy-to-use interface • Pressure altitude monitor ..P/N 11-17601 ..... ---

APPAREO A&P BUNDLE - WITH STRATUS ES

Stratus ES is a 1090 MHz extended squitter (ES) transponder. Designed with the common 1.65″ tall form factor, it's an easy replacement for your existing transponder. Stratus ES is a solid state transmitter that provides 310 watts nominal power output. Its modern keypad makes entering a squawk code easy. The convenient VFR button minimizes pilot keystrokes. The Stratus ES was built without GPS in order to provide affordable ADS-B Out to aircraft owners who have already invested in WAAS GPS. Stratus ES will make an aircraft rule-compliant when paired with any of the following navigators for 2020 compliance:
Garmin 430W, 530W, 650, 750
Avidyne IFD440, IFD540
Note: The Stratus A&P bundle includes a wiring harness and can be purchased over the counter for installation by an A&P.
The Stratus A&P bundle includes: Stratus ES Kit, Stratus 3i Kit, and Wiring Harness.....P/N 11-17891 ..... ---

APPAREO STRATUS ESG 1090 ES DIGITAL TRANSPONDER - EXPERIMENTAL AIRCRAFT

Note: Unit can only be sold for experimental aircraft.
Stratus ESG was designed as a simplified "all-in-one box" solution for 2020 compliance, with non-glass panel aircraft in mind. ADS-B Out Transponder. Built-in WAAS GPS. GPS antenna included. Stratus ESG is a 1090 MHz extended squitter (ES) transponder with built-in WAAS GPS. Designed with the common 1.65" tall form factor, it's an easy replacement for your existing transponder. Stratus ESG is a solid state transmitter that provides 310 watts nominal power output. Its modern keypad makes entering a squawk code easy. The convenient VFR button minimizes pilot keystrokes.

Description	Part No.	Price
ESG Unit Only	11-14464	---
With Custom Harness	11-14467	---
With 4 ft. Harness	11-14466	---
Interface Kit	11-14673	---
ABS-B Antenna	11-14672	---
Stratus 1S/2S Appareo Interface Kit	11-14673	---
Stratus 2 Appareo Interface Kit	11-16213	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GPS PROTECTORS

NAVIGATION SCREEN PROTECTORS

The Pre-cut navigation screen protectors provide excellent protection from scratches. The anti-glare layer reduces unwanted reflections, increasing contrast, clarity, and viewing comfort even with the use of polarized lenses. This film is thick enough to protect the screen, yet thin enough to have no effect on touch screen sensitivity. Light tack adhesion provides for residue-free removal. Does not require special cleaners. Available for: ADR, Anywhere Map, Avidyne, Apollo, Chelton, Eclipse Avio, Garmin, King, Vista Nav, and more.

Features:

• Removable - Removes easily with no residue • Easy to clean - Fingerprints wipe away easily • Durable - Helps protect screen from scratches • Anti-Reflective - Helps reduce glare

Description	Part No.	Price
1 pc AV8OR	11-08214	---
GMX-20	11-07163	---
KMD 250	11-07166	---
AV8OR Ace	11-08216	---

EZCLEAR INSTRUMENT CLEANING KIT

This product meets Garmin G1000 Pilot Guide specs for cleaning and is safe to use on glass panels. EZCLEAR Instrument Cleaning provides a safe, effective way to remove fingerprints and dust from glass panels, instru-ments and more. These items have been specifically paired together to ensure safe and effective screen cleaning. Per the instructions, the user wipes the surface with the Cleaning Pack and then dries the area with the Polishing Cloth. The Cleaning Packs are ammonia free, aviation-grade and will not remove or damage any anti-reflective coating. The Polishing Cloth is washable. This kit will last between 3-4 months depending upon frequency of use.

Kit Contents: • 1 - EZCLEAR Avionics Cleaning Pack, 1 Avionics Cloth (7.5x7.5”), 3 Cleaning Packs .....P/N 09-02394 ..... ---

APPAREO SUCTION CUP MOUNT - STRATUS 3

This suction cup makes it easy to mount Stratus out of the way on a side window. This location enhances the GPS and ADS-B reception of Stratus, and reduces the chance of overheating. Ideal for jets and other airplanes with heated windshields, or for airplanes that frequently park outside. External power and ADS-B cables can still be used in the mount. Suction cup attaches to Stratus cradle with included screws (replacement cradle sold separately)

P/N 11-16750 ..... ---

GARMIN LOW-PROFILE MAGNETIC MOUNT

Securely mount your compatible Dash Cam and keep your hands on the wheel while you navigate. The low-profile design helps minimize blockage of your line of sight. Includes mount, magnetic disk and adhesive material.

P/N 11-18504 ..... ---

AVIONICS WIRE HARNESS SHOP

We have added an in-house harness assembly shop providing avionics wire harnesses for the experimental market ranging from single avionics units to custom coax cable assemblies to complete panel wiring systems. Our harnesses are all professionally assembled and neatly labeled allowing for easy installation by the customer. Although many of the harnesses are standard and stocked on the shelves for same day shipping, we also offer our customers custom-made harnesses to specific lengths for each wire you will need during installation. When you start working on your avionics panel, rely on our shop’s expertise and support for all your harness needs. Contact our Avionics department at 800-826-3160 or visit our website for any questions or requests for quote on our growing list of of avionics units we can provide the harness solutions for.

GPSMAP 696 & 695 ACCESSORIES

Description	Part No.	Price
Carrying Case	11-07049	---
Yoke Mount	11-07057	---
Intl. AC Adapter	11-07053	---
GXM 40 Flange Mount	11-07059	---
MCX to BNC Antenna Cable	11-90210	---
696 Audio Jack	11-07783	---
Airgizmo 695/696 Panel Dock	11-09439	---
Glare wizard for 695-696	11-08027	---

GPSMAP 296, 396, 495, & 496 ACCESSORIES

Description	Part No.	Price
GA 56 Low Profile External Antenna Stud Mount	11-18756	---
GA 56 Low Profile External Antenna Flange Mount	11-18225	---
Carrying Case	11-18863	---
Make it Glare Wizard Glareshield for 495/496	11-07939	---

AIRGIZMOS PANEL DOCKS

AIRGIZMOS GARMIN 695, 696, 795, 796, AERA XM ANTENNA DOCK

The perfect companion to your new Garmin 695, 696, 795, 796, or aera 560 and the AirGizmos Panel Dock. Designed to mobilize your costly XM antenna. It helps to maintain the clean look of a permanenet installation by organizing the antenna cable. Freely move ONE XM antenna from location to location, avoiding high costs of additional equipment and service subscriptions .....P/N 11-09118 ..... ---

AIRGIZMOS GARMIN 396/496 ANTENNA DOCK PREMIUM SET

Designed to mobilize your costly 396 or 496 XM antenna. It helps to maintain the clean look of a permanenet installation by organizing the antenna cable. Freely move ONE XM antenna from location to location, avoiding high costs of additional equipment and service subscriptions. Kit Includes: 2 Cradles, 1 Base, 2 Cables .....P/N 11-09119 ..... ---

AIRGIZMOS IPAD MINI I IPAD AIR KNEE DOCK

AirGizmos Knee Dock has the ability to adjust the angle of the iPad mini for best viewing angle.

Mini 3.....P/N 11-12097 ..... ---
Mini 4.....P/N 11-15458 ..... ---
iPad Mini 1/2/3 .....P/N 11-12097 ..... ---
iPad Mini 4 / 5 .....P/N 11-15458 ..... ---
iPad Air 1/2 + iPad 9.7 .....P/N 11-16173 ..... ---
iPad Pro 10.5 .....P/N 13-23579 ..... ---
iPad 11 .....P/N 13-23580 ..... ---
iPad Pro 12.9 .....P/N 13-23581 ..... ---
iPad AirMount.....P/N 13-23582 ..... ---

AIRGIZMOS PANEL DOCK SMALL MOUNTING RAIL KIT

For use with small format Panel Docks: 496 Panel Dock, AV8OR Panel Dock, AERA Panel Dock, etc. Mount the Panel Dock™ when you don't have any existing radio stack space available. P/N 11-12093 ..... ---

AIRGIZMOS AIRMOUNT- MOUNT ONLY

Leave your tablet in the protective case and still secure it in the aircraft. The AirMount adjusts on three sides, holding your tablet device in any orientation. With several mounting options available to use with the AirMount, this is possibly our most flexible mounting solution yet. .....P/N 11-14561 ..... ---

AIRGIZMOS AIRMOUNT WITH FIXED MOUNT

This device has mounting holes that are the same as a standard 3 1/8" instrument. That means you can use an existing instrument hole and mount one of our surface mount devices to your panel. .....P/N 11-14564 ..... ---

AIRGIZMOS AIRMOUNT WITH SUCTION MOUNT

The AirGizmos Suction Mount holds your iPad securely using a heavy duty suction cup to attach it to your windshield or any other smooth surface. Included with the Suction Mount are three different lengths of extension arms: 1", 2", and 3", to accommodate just about any mounting situation. ..P/N 11-14562 ..... ---

AIRGIZMOS AIRMOUNT WITH TILT MOUNT

If you need to mount your iPad mini or iPad air in your plane this might be the solution you are looking for. The base mount is designed to be screwed to a panel using a standard instrument mounting holes. The iPad snaps in and is held securely.....P/N 11-14563 ..... ---

AIRGIZMOS PANEL DOCK FOR IPHONE 6 & 7

Replace your aging Garmin handheld with an iPhone running your choice of flight software. It is made easy with the iPhone 6 & 7 Panel Dock being a direct replacement for your existing x96 Panel Dock. The iPhone 6 & 7 Panel Dock fits in the same opening as the Garmin x96, and therefore can be used with the AirGizmos Horizontal or Vertical tilt adapters.....P/N 11-15229 ..... ---

AIRGIZMOS BASE MOUNT TILT WITH IPAD MINI GENERATION 4 / 5 CLIP

The IM4 Clip works with the AirGizmos Surface Mount solutions and Knee Dock. This clip is compatible with iPad mini 4 and iPad mini 5 (Models A1538, A1550, A2124, A2126, A2133).....P/N 11-20764 ..... ---

AIRGIZMOS GARMIN ANTENNA DOCK 696/796 PREMIUM SET

Designed to mobilize your costly Garmin 696 or 796 XM antenna. It helps to maintain the clean look of a permanenet installation by organizing the antenna cable. Freely move ONE XM antenna from location to location, avoiding high costs of additional equipment and service subscriptions. Kit includes: 2 cradles, 1 base, 2 cables.....P/N 11-09121 ..... ---

AIRGIZMOS GARMIN 696/796 PREMIUM BEAN BAG SET

Designed to mobilize your costly Garmin 696 OR 796 XM antenna. It helps to maintain the clean look of a permanenet installation by organizing the antenna cable. Freely move ONE XM antenna from location to location, avoiding high costs of additional equipment and service subscriptions. Kit includes: 1 cradle, 1 base, 1 bean bag, 2 cables. .....P/N 11-09122 ..... ---

AIRGIZMOS GARMIN 396/496 PREMIUM BEAN BAG SET

Designed to mobilize your costly 396 or 496 XM antenna. It helps to maintain the clean look of a permanenet installation by organizing the antenna cable. Freely move ONE XM antenna from location to location, avoiding high costs of additional equipment and service subscriptions. Kit includes: 1 cradle, 1 base, 1 bean bag, 2 cables. .....P/N 11-09120 ..... ---

AIRGIZMOS IPAD MINI PANEL MOUNT

Designed to be screwed to a panel using a standard instrument mounting holes. The iPad mini snaps in and is held securely. Length: - 5.53 inches Height: - 8.18 inches Depth: - 1.76 in P/N 11-12096 ..... ---

AIRGIZMOS PANEL DOCK LARGE MOUNTING RAIL KIT

For use with large format Panel Docks like the Garmin 695/696 and Bendix King AV8OR ACE. Mount the Panel Dock™ when you don't have any existing radio stack space available. .....P/N 11-12095 ..... ---

AIRGIZMOS IPAD MINI 4 PANEL DOCK™

Included is a cooling port on the back of the iPad mini4 Panel Dock™. This port is compatible with standard avionics cooling fans if you decide you want to use this feature. The iPad mini4 Panel Dock™ is designed to work with the existing Angle Adapter. Radio stack compatible at 8.0"H x 6.25"W x 1.32" D / 4.4 ounces. Fits the same opening as the 696/796/iFly Panel Docks. P/N 11-14355 ..... ---

AIRGIZMOS IPAD MINI I IPAD AIR KNEE DOCK

The AirGizmos™ iPad mini/air Knee Dock is our answer to the problem of needing an accessible place in the cockpit for the iPad mini and iPad Air. If you have become accustomed to using charts on your iPad mini or air, you will enjoy having immediate access right at your fingertips.....P/N 11-16173 ..... ---

AIRGIZMOS PANEL DOCK FOR THE GARMIN AERA SERIES

Fits the aera 500 GPS like a glove. Replaces the 496 Panel Dock without modifying the panel. Installs easily in a standard 6.25" opening. Allows quick and easy removal of your portable GPS. Includes an integrated actuator for the power button. Gives your instrument panel a professional, finished look.....P/N 11-08321 ..... ---

AIRGIZMOS PANEL DOCK FOR GARMIN 695/696

Securely mounts the Garmin GPSMap 695/696. Designed to allow quick and easy removal of your portable GPS. Made from durable, high quality plastic similar in appearance to the GPS itself. Gives your instrument panel a professional, finished look.

Garmin 695/696 Panel Dock .. P/N 11-09439 ..... ---
GPSMAP Angle Adapter ..... P/N 11-07310 ..... ---

AIRGIZMOS BASE MOUNT TILT WITH IPAD MINI GENERATION 6 / 7 CLIP

The IM6 Clip works with the AirGizmos Surface Mount solutions and Knee Dock. This clip is compatible with iPad mini generation 6 and 7 (A17 Pro). Models include A2567, A2568, A2569 A2993, A2995, and A2996.

. P/N 11-20765 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AIRGIZMOS PANEL DOCKS

AIRGIZMOS AERA 660 PANEL DOCK

When you snap your aera 660 GPS into the Panel Dock, you will immediately appreciate the glove-like fit. The Panel Dock conforms to every curve of the new aera 660. The Panel Dock also matches the look and feel of the rest of your avionics stack, giving you a pleasant, professional looking panel.

P/N 11-14552 ..... ---

AIRGIZMOS GARMIN AERA 760 PANEL DOCK

Note: Panel dock only. Garmin GOS connector not included. Install the new AirGizmos aera 760 Panel Dock to integrate the aera 760 GPS into your aircraft panel. The Panel Dock matches the look and feel of the rest of your avionics stack, giving you a professional looking panel. Your GPS is held securely in place, and as a result, the touchscreen controls feel comfortable and stable. In flight, you will appreciate your portable GPS and wires out of the way of your controls.....P/N 11-18689 ..... ---

AIRGIZMOS PANEL DOCK FOR GARMIN 196/296/396/495/496

Designed to securely hold your Garmin 196, 296, 396, or 496 portable GPS. It fits nicely in a standard 6.25" avionics stack. Allows you to quickly remove your portable GPS from your plane for upgrades, flight planning, or for use in your car or boat. The Panel Dock is shipped with a set of mounting hardware necessary for attaching it to an avionics stack. .....P/N 11-03509 ..... ---

AIRGIZMOS PANEL DOCK FOR GARMIN 295

The Garmin 295 is held safely and securely, but can be easily removed in a matter of seconds. The external power and antenna connections are made at the back of the unit, and the cables are secured from falling into the panel with special keyholes machined into the dock.....P/N 11-04315 ..... ---

AIRGIZMOS GARMIN HORIZONTAL PANEL DOCK ANGLE ADAPTER

The Vertical Tilt Adapter angles the viewing angle of the GPS so it is more readable when the GPS is mounted at the bottom of a tall instrument panel. This adapter fits the same opening as the Panel Dock itself, so adding the vertical tilt should be very easy for existing installations. **REQUIRES P/N 11-03509.**

P/N 11-05029 ..... ---

AIRGIZMOS HORIZONTAL TILT ADAPTOR FOR GARMIN UNITS

AirGizmos Horizontal Tilt Bracket angles the GPS at a fixed angle of 15 degrees, providing a much more convenient viewing angle. This adapter fits in the same panel cutout as the Panel Dock, so if you already have a Panel Dock you can attach this adapter without having to modify your installation. **REQUIRES P/N 11-03509**.....P/N 11-04671 ..... ---

AIRGIZMOS 396 XM ANTENNA DOCK

Now you can move the XM antenna from plane to plane, or from vehicle to vehicle. It is designed to mobilize your costly 496 XM antenna. Using a simple twist & lock mechanism (no tools required) the base will lock your antenna into the preinstalled cradle, and your 396 XM antenna is ready to go!

P/N 11-04694 ..... ---

AIRGIZMOS PREMIUM BEANBAG XM 396 & 496 ANTENNA MOUNT

Designed to mobilize your costly 496 XM antenna. It helps to maintain the clean look of a permanenet installation by organizing the antenna cable. Package includes: base, cradle, beenbag assembly, and two cables.....P/N 11-07007 ..... ---

AIRGIZMOS 396 & 496 XM CRADLE & CABLE

This product wil allow you to use the AirGizmos XM Antenna Dock in a second vehicle or aircraft. Use of this product requires that you first purchase the AirGizmos XM Antenna Dock.

P/N 11-04781 ..... ---

AIRGIZMOS XM ANTENNA CABLE

XM Antenna Cable. Straight, 2 meter extension for Garmin XM Weather Antenna .....P/N 11-04780 ..... ---

AIRGIZMOS PANEL DOCK COVER FOR GARMIN 196/296/396/496

This panel is for Garmin panel dock for models 196/296/396/496. Protects unit from UV rays and hides unit in the aircraft so that theft is less likely to happen. Can be used even if Garmin unit has not been installed yet. .....P/N 11-04775 ..... ---

AIRGIZMOS IPAD AIR/IPAD PRO 9.7 PANEL DOCK™

The iPad Panel Dock is designed to quickly and securely mount your 9.7" iPad Air or iPad Pro on the surface of your panel while allowing the iPad to be easily removed when necessary. It requires only four screws and you are all set to go. .....P/N 11-16223 ..... ---

AIRGIZMOS IPAD MINI PANEL DOCK

Mount your iPad mini securely in the instrument panel while still allowing it to be easily removed when you are not flying. The iPad mini Panel Dock is designed to work with the existing Angle Adapter. Radio stack compatible at 8.0"H x 6.25"W x 1.32" D / 4.4 ounces. Fits the same opening as the 696/796/iFly Panel Docks. Not for use with the iPad Mini 4.

P/N 11-11460 ..... ---

AIRGIZMOS PANEL DOCK FOR AVMAP EKP-IV

Now you can mount the beautiful, detailed display of the AvMap EKP-IV directly in your instrument panel using the AirGizmos EKP-IV Panel Dock. The AirGizmos EKP-IV Panel Dock is designed to hold the AvMap securely yet it allows you to easily remove your portable from your plane whenever the need arises. The AirGizmos EKP-IV Panel Dock offers easy installation, quick release, hassle-free management of cables, and elegance of design. .....P/N 11-04371 ..... ---

AIRGIZMOS IFLY 700 / 720 PANEL DOCK

Mount your iFly 700/720 GPS in your instrument panel. Using our Panel Dock you can enjoy your portable GPS in a more stable and safe installation. We have added a space inside of the Panel Dock to hold the iFly 700 external battery. Designed to be mounted horizontally or vertically.....P/N 11-10848 ..... ---

AIRGIZMOS PANEL DOCKFOR AIRMAP 1000/2000C

The cables supplied by Lowrance fit through keyhole slots on the back of the unit. The release latch at the top of the Panel Dock permits quick removal of the device for use in another vehicle or simply for security purposes.

P/N 11-04372 ..... ---

AIRGIZMO LOWRANCE 600 PANEL DOCK

Panel Dock will allow the AirMap 600c to be nicely mounted in your panel while still allowing it to be easily removed and used as a handheld. Made from durable, high quality plastic similar in appearance to the GPS itself. Gives your instrument panel a professional, finished look.

P/N 11-05616 ..... ---

AIRGIZMOS AERO COVER

Fits all of the major brands of GPS and XM weather antennas. It will protect your antenna from the elements. It is streamlined and attractive. Best of all, it gets your antenna out of your way.

P/N 11-04777 ..... ---

AIRGIZMOS AERO DOCK

Gives you the option of mounting the antenna on the outside. Designed to mobilize your costly 396 XM antenna. It helps to maintain the clean look of a permanent installation by organizing the antenna cable. Freely move ONE XM antenna from location to location, avoiding high costs of additional equipment and service subscription. Kit includes: 1 cradle, 1 base, 1 cable, mounting hardware.

P/N 11-04778 ..... ---

AIRGIZMOS IPAD MINI 6 / 7 PANEL DOCK ™

Fly with your iPad mini (6th or 7th gen.) securely mounted in the instrument panel while still allowing it to be easily removed when you are not flying. Included is a cooling port on the back of the iPad mini (6th or 7th gen.) Panel Dock™. This port is compatible with standard avionics cooling fans if you decide you want to use this feature. The iPad mini (6th or 7th gen.) Panel Dock™ is designed to work with the existing Angle Adapter.

P/N 11-19233 ..... ---

AV

DUALAV XHUD1000 HEAD UP DISPLAY

The XHUD1000 Heads Up display enhances situational awarness for General Aviation.

3 Selectable Modes:

• AHRS: Displays altitude, airspeed, attitude, bank angle, and compass heading on a classic HUD graphic for monitoring fights.

• Traffic: Displays ADS-B traffic on a radar style graphic with selectable range, using TCAS symbology.

• Tablet Graphics: Displays graphics from separate apps running on tablet or smartphone (e.g. AHRS, synthetic vision, maps)

Features:

• Enables pilots to view key flight data with their head up and eyes forward / Image Invert feature allows use of HUD in ceiling mount position
• Wireless connectivity with portable receivers, panel avionics, tablets, & smartphones
• Compact & portable with flexible mounting to fit with most planes / Folding screen with adjustable distance & angle
• Compatible with Dual XGPS190 & Stratus 3 for AHRS & Traffic modes, & XGPS170/170D for Traffic mode
• Any brand of portable receiver will support Tablet Graphics mode / Non-slip anti-vibration holder & mounting bracket, for easy installation on most aircraft.

XHUD1000 Unit Only.....P/N 11-18428 ..... ---

SANDIA STX 360 SENTINEL PANEL MOUNT ADS-B TRANSPONDER

The STX 360 Sentinel is a 978 MHz UAT ADS-B unit with a built-in Mode A/C transponder. The STX 360 can easily be installed in the same space as an existing transponder, simplifying the installation. The STX 360 has an internal diplexer that allows both the transponder and the UAT to share a single antenna. Because it is a combination unit, there is a single point of entry for the squawk code which eliminates the possibility of reporting two different codes. The STX 360 provides a traffic display, METARs and status on its sunlight readable OLED display. With its wireless output capability, the STX 360 can also display weather and traffic on portable devices such as an iPad or tablet.

The SANDIA STX 360 accepts position data from WAAS GPS position source such as the FREEFLIGHT WAAS/GPS 1201, the GARMIN 430W, 530W. SANDIA STX 360 will accept a WAAS position source that has RS 232 or RS 422 interface. We also accept WAAS GPS Information from the MGL and GRT Product lines.

Features:

• UAT ADS-B In and Out • Pilot Selectable Anonymous Mode • Built-in Mode C Transponder • Built-in Diplexer – Single UAT/Transponder Antenna • Enhanced Visual Acquisition Traffic Display • Display of METARs • Single Entry for Squawk Code • Wireless iPad Weather, Traffic, and FIS-B • Fits Existing Transponder Panel Dimensions • Remote Options .....P/N 11-14705 ..... ---

AV

SANDIA SI-11X ELECTRONIC COURSE DEVIATION INDICATOR

The SI-11X Electronic Course Deviation Indicator is a panel-mounted device that displays lateral and vertical needles from a typical navigation receiver or GPS navigator. The non-certified SI-11X CDI is intended for the experimental aircraft market.

All information is displayed on a color 3.5 Inch diagonal LCD display in traditional aerospace symbology. The SI-11X displays Left/Right course deviation for VOR, ILS or GPS and Vertical deviation for ILS or GPS. The SI-11X also displays four Annunciations, NAV or VLOC, GPS and BC (Back Course).

The SI-11X will interface with virtually all VOR and GPS navigation units. The SI-11X mounts in a 3 1/8 Inch standard instrument hole and is the ideal replacement for mechanical instruments.

Specifications:

• Weight: 0.56 lb
• Dimensions: 3.52 x 3.22 x 1.84 in.
• Viewing angle: 60 ‹ Left/Right, 45 ‹ Up/Down
• Operating temperature: -20 ‹C to +55 ‹C
• Power input: 10-32 VDC
• Current: 1 amp max
• Power: 5 watts at max display brightness.... P/N 11-17529 ..... ---

FAT GECKO TABLET AND IPAD BRACKET

Mount your tablet or ipad anywhere.

Attach your Tablet, iPad or eReader to a countertop, window, desk, tray table, tripod or car seat for hands-free use almost anywhere. The adjustable bracket holds any tablet or iPad between 7 and 10.5 inches securely, while the female 1/4-20 tripod thread on the back of the bracket allows you to attach your device to the mount of your choice, including Fat Gecko Mounts, tripods, light stands, hand straps and more.

Features: • Holds Most Tablets & iPads • Hands-free Use & Secure Grip • Access to All Buttons & Functions • Works with Apple, Samsung, Google, Amazon, Asus & More • Universally Compatible Tripod Thread

P/N 11-13585 ..... ---

FAT GECKO TABLET AND IPAD MINI MOUNT

Designed to securely hold any tablet or iPad between 7 and 10.5 inches, the Delkin Devices Fat Gecko Tablet & iPad Bracket allows you to mount your device in places you normally would not be able to. Attach it to a countertop while cooking, your desk at work, even the window of your car; the possibilities are endless! This innovative accessory easily compliments your equipment in any situation, including photography, videography, aviation, gaming and various other activities.

Secure & Reliable Hold -The Fat Gecko bracket is built with two retractable arms and custom molded corners to create a firm, secure attachment, while still providing unobstructed access to all of your device's buttons and functions. Once placed in, the bracket's retractable arms lock your tablet or iPad into place, while the corners prevent the device from slipping out, especially when in motion. In addition, the bracket also comes with a padded front to protect the back of your device from any potential damage.

Mount Your Device Virtually Anywhere - With a built-in female ¼"-20 thread on its back, the Fat Gecko bracket can be mounted to any standard ¼"-20 photography accessory, including tripods, monopods, as well as any of Delkin's Fat Gecko camera mounts.

Utilizing a patented 3" industrial-grade suction cup, Delkin's Fat Gecko suction mounts create a secure, damage-free attachment to any smooth, non-porous surface. In comparison, the Fat Gecko Vise Mount is designed with a fully adjustable 3" screw and rubber-padded mouth to attach to any non-traditional solid surface, such as the edge of a table, poles, chairs and many other objects. Each Fat Gecko camera mount is fully adjustable, offering 360° tilt, turn and rotation, and allows you to angle and position the bracket in numerous ways for a completely customized setup. .....P/N 11-14718 ..... ---

GARMIN PORTABLE FRICTION MOUNT

Keep your device in easy sight with this portable friction mount, and then remove it from your vehicle when you arrive at your destination. Lets you use your device in more than one vehicle. For aera 500 series

P/N 11-13670 ..... ---

ASPEN AVIONICS EVOLUTION E5 DUAL ELECTRONIC FLIGHT INSTRUMENT

Versatile Performance – presents attitude information with altitude, airspeed, vertical speed plus DG/CDI course deviation indicator into a single display with a backup battery. Includes Global Positioning System (GPSS) Steering, and attitude heading reference system (ADAHRS). Reliable - With redesigned electronics and new glass, the Evolution E5 has a bolder and brighter display and offers higher reliability, more capability and increased processing speed all while retaining Aspen's unique form factor design that keeps installation costs down. • Affordable – real glass • Compatible – works with your panel's existing avionics • Autopilot – interfaces to the new TruTrak Vizion • Autopilot and is compatible with most legacy autopilots. • Simple Installation – the unique form-fit factor design slides into existing panel—one install does it all. • Upgradeable – affordably add HSI and other features such as ADS-B, Angle of Attack, Synthetic Vision and Hazard Awareness with an easy upgrade path that leverages your Evolution E5 investment without unit replacement. • Smart Investment – increases aircraft value, situational awareness.

With ACU Top.....P/N 11-16468 ..... ---
With ACU Bottom .....P/N 11-16469 ..... ---

DEKLIN EA100 INTERFACE UNIT SERIES

The Deklin Technologies, Inc. has developed the TR2/TR2R series Transformer/Relay adapters as a pre-assembled autopilot interface unit following the interconnect specifications and component requirements recommended by Aspen Avionics for PFD installations when interfaced with Century autopilots. It is intended to provide a convenient installation for installers to use in place of producing the same circuits from discrete components as specific in PFD installation manual. The TR2/TR2R prefabricated assemblies assist Dealers installing the Aspen Avionics EA100 emulating the gyro interface with Century Autopilots saving valuable time sourcing, designing and building their own assembly. The TR2 are housed in a small aluminum enclosure with the same wiring interface as outlined in the installation manual ready for installers to the plugin. The TR2R can be ordered with an optional relay when needed for a Flight Director interface. These adapters are an addition to Deklin Technologies AIU adapters already used by many Dealers to ease installations of PFD's to the Century autopilots.

TR1 Unit Only 14V.....P/N 11-17583 ..... ---
TR1R With Flight Director 14V .....P/N 11-17585 ..... ---
TR2 Unit Only 14V.....P/N 11-17584 ..... ---
TR2R With Flight Director 14V .....P/N 11-17586 ..... ---
TR2 Unit Only 28V.....P/N 11-18944 ..... ---
TR2R With Flight Director 28V .....P/N 11-18946 ..... ---

DEKLIN AIU-900 AUTOPILOT INTERFACE UNIT

The AIU-900 is a pre-assembled autopilot interface unit following the interconnect specifications and component requirements recommended by the manufacturers of certain PFD systems when interfaced with the existing 1C388 series autopilot couplers. This unit is intended to provide a convenient solution in a single device with multiple variations for installers to use in place of producing the same circuits from discrete components as specific in PFD installation manuals. For use with Aspen or Garmin PFD's Supports 1C388 / 1C388M / 1C388-2 / 1C388-3. These will also work with the Garmin G5 unit when interfaced to the 1C388 couplers.

Note: Does NOT include install kit (AIU-900IK) (See P/N: 11-17576).

AIU-900A For Garmin.....P/N 11-17574 ..... ---
AIU-900B For Aspen .....P/N 11-17575 ..... ---
AIU-900IK Installation Kit.....P/N 11-17576 ..... ---

DEKLIN BNC TO TNC - RIGHT ANGLE

Right angle, BNC (Female) jack to TNC (Male) plug tray RF adapter.....P/N 11-17578 ..... ---

DEKLIN BNC TRAY ADAPTER WITH SNAP RING

Right angle, BNC tray RF adapter.
P/N 11-17577 ..... ---

DEKLIN WAAS ANNUNICATOR

The DWA2000 is a self-contained WAAS GPS annunciator panel for 14 and 28 volt aircrafts. The unit displays annunciation status from GPS receivers that output discrete signals for remote annunciation purpose.....P/N 11-17579 ..... ---

DEKLIN COIL CORDS

These aircraft grade 12 conductor coil cords are tested to the latest FAA Flame standards (14 CFR Part 25.869 (a) (4) App. F Part I (a)(3)). It features 22 AWG conductors of different colors for easy identification. It is an excellent choice for installation between the control wheel and the instrument panel for functions such as Autopilot Trim, Autopilot Disconnect, Push-To-Talk, Ident, and more. It is designed to extend and contract as needed to allow full range movement of the control wheel.

12 Conductor Cord .....P/N 11-18956 ..... ---
18 Conductor Cord .....P/N 11-20072 ..... ---

AVMAP EKP V GPS

Fully Portable: A brilliant 7" display, with built-in battery and GPS, only 0.8" thick. EKP V is slim and light, yet very powerful: with built in u-blox 5 GPS receiver, built-in battery and speakers.

Offering full Connectivity: Thanks to the special Docking Station, you can connect EKP V to several on-board devices at the same time (autopilot, XM WX, CAS, EIS, EFIS etc.) so that the large 7" LCD becomes multifunctional and capable to display different flight info.

Fully Customizable: Easily change the layout choosing what to see and where to display it: maps, taws, weather, vertical profile on map, nav data, HSI, EFIS. Set different PROFILES for different aircrafts with different settings for taws, selective display and even different hard keys configurations .....P/N 11-09748 ..... ---

AVMAP EKP V WITH DOCKING STATION AND ULTRA EFIS COMBO

The AvMap avionic system consists of:
- AvMap EKP V: GPS navigator, EFB, PFD
- AvMap Cockpit Docking Station
- AvMap A2 ADAHRS module
- AvMap GPS receiver

P/N 11-16409 ..... ---

ACCESSORIES

Description	Part No.	Price
AVMAP EKP V Option Cockpit Cradle Kit	11-11131	---
AVMAP EKP V Option Docking Station	11-11132	---
AVMAP EKP V PC Interface Cable	11-11490	---
AVMAP EKP Leg Strap	11-11487	---
AVMAP EKP V Knee Pad Bracket	11-11486	---
AVMAP EKP V Serial Cable	11-11493	---
AVMAP EKP V & Geopilot II Plus Dash/Panel Mount	11-11496	---
AVMAP EKP V & Geopilot II Plus Yoke Mount	11-11497	---
AVMAP EKP V & Geopilot II Plus Suction Dash Mount	11-11498	---
AVMAP EKP V & Geopilot II Plus Mounting Bracket	11-11499	---
Avmap EKP V A2 Adahrs	11-11488	---
Avmap Engi Box (Rotax) North	11-13657	---
Avmap EKPV Power Adapter	11-16538	---
Avmap EKPV Free Wire Cable	11-16539	---
Avmap Joystick Kit	11-16540	---
Avmap Protective Cover for EKPV	11-16541	---
Avmap External GPS Antenna For Ultra EFIS	11-16542	---
Avmap AC/DC Adapter - North America	11-16543	---
Accessories for Geo Pilot II/Plus	**Part No.**	**Price**
Airgizmo Panel Dock for Geopilot II	11-05615	---
Airgizmos Panel Dock for Geopilot II+	11-06855	---

Visit www.aircraftspruce.com for complete AVMAP packages.

AVMAP ULTRA - EFIS

AvMap Ultra is a stand alone EFIS with a 3.5" ultra bright LCD display. The unit is compact (only 63.3 mm /2.49" of installing depth) and ultra light: only 230 g (8.1 Oz)! Designed for light-sport, ultralight and experimental aircraft. Ultra compact: only 2.49" of installing depth, and only 3.74" x 3.74" of external frame. Ultra bright: 3.5" ultra bright LCD display with 500 cd/m2 brightness. Ultra powerful, packed with everything you need: • 3.5" ultra bright LCD • GPS • Solid state 3-axis gyro • 3-axis accelerometer • 3-axis magnetic field sensor • Pitot and Static air data sensors • UAV motion processor and sensor fusion software • Preloaded with Jeppesen database (APT, VOR, NDB) The AvMap Ultra can display on the 3.5" LCD two different pages: PFD and HSI. Change Page by using the rotor knob. Your Navigation back-up! The AvMap Ultra also provides navigation back-up: in the HSI screen you can select from the preloaded Jeppesen Database an Airport, a VOR station or NDB transmitter as your navigation point. The Ultra EFIS contains an internal world magnetic model that allows it to calculate the local magnetic deviation and dip. The Ultra EFIS can calculate current position and ground speed even in the absence of GPS.

P/N 11-12004 ..... ---

AVMAP ENGIBOX FOR ROTAX

With an update rate of five times per second, Engibox measures and displays the engine parameters to warn you instantly if any measurement exceeds the engine limits. Data are recorded and stored in the internal memory (up to 160 hours). Download the free Engibox mobile App to get Instant Support Service*.

EngiBOX is a light and compact engine monitor displaying
• Exhaust Gas Temperature (EGT) • Revolutions per Minute (RPM) • Manifold Pressure (MAP) • Oil Pressure • Oil Temperature / Air Temperature • Cylinder Head Temperature (CHT) / Coolant Temperature (CT)

Description	Part No.	Price
w/o Probe	11-13657	---
w/ Probe	11-16537	---

Description	Part No.	Price
EGT Probe (1)	11-16544	---
Set of 4 Probes	11-16545	---
EGT Ext. Cable (6.5)	11-16546	---

AV

KING KSN 770 INTEGRATED SAFETY NAVIGATOR

An affordable, WAAS-Enabled, Integrated MFD with a flexible hybrid user interface. Features: • High-res VGA display (5.7" diagonal, 5.25" high). • Hybrid user interface • Electronic charts and maps. • WAAS GPS enroute and approach navigation system. • **TCAS and Radar, **TAWS and Stormscope. • XM WX interface. • 10W COM with optional high-power 16W COM.-Digital radio core • Analog and digital inputs/outputs. • EPIC/APEX FMS Core. • Simple to use • Affordable pricing • Enhanced ground proximity warning system (option). • Nav/Com (10W Com with 16W option) .....P/N 11-12340 ..... ---

SILVER CROWN KX-165A NAV/COM SYSTEM

Large, self-dimming, microprocessor-controlled gas discharge readouts and solid-state electronic tuning provide fast, accurate selection of all 200 Nav & 760 Comm frequencies. On the COMM side, the KX165 system gives you 10W minimum transmitter power for maximum range and clarity. And on the NAV side, the KX165's useful 'Radial' feature offers you an instant readout of the radial you're on (from the 'active' VORTAC station), digitally displayed in the 'standby' NAV frequency window. The KX-165A is TSO'd and offers 32 channels of com frequency memory, an additional CDI mode. The GPS "Quick Tune" feature allows the pilot to select and remotely tune the standby com & nav freq. from the KLN94 GPS 28V

25 khz.....P/N 11-00644 ..... ---
8.33 khz.....P/N 11-16032 ..... ---

CROWN KX 125 DIGITAL NAV/COM

The KX-125 is ideal as a replacement radio, a primary system for homebuilts or a very affordable back-up. COMM section provides 760 frequencies, 'flip-flop' frequency selection, a built-in audio amplifier with sidetone and audio leveling, direct tuning, stuck-microphone alert, and even remote transfer of both COMM and NAV frequencies. Its separate NAV section offers 200 frequencies, including localizer. Includes unit, install kit, nd manual.

KX-125 Unit Only.....P/N 11-02585 ..... ---

CROWN KI SERIES INDICATORS

The KI203, KI208, KI204, & KI209 indicators feature an internal VOR/ LOC converter and are compatible with the KX155 transceiver. The KI203 & KI204 have rectilinear meter movement, while the KI208 & KI209 feature pivot needle action. The KI206 has rectilinear meter movement and works with the KX165 & KNS80. The KI209 includes GPS interface capability. Size: 3.125" x 8"D; Weight: 1.5lbs.

KI 203 NAV Indicator.....P/N 11-03407 ..... ---
KI 204GS Indicator.....P/N 11-03408 ..... ---
KI 209A GS Indicator .....P/N 11-03409 ..... ---
KI 208A 14/28V with install .....P/N 11-07599 ..... ---
KI 209 GS Indicator.....P/N 11-00878 ..... ---
KI 206 GS Indicator.....P/N 11-04209 ..... ---

BENDIX/KING XVUE TOUCH FLIGHT DECK SYSTEM

The xVue Touch is centered around an industry leading 10.1" display with a near 4K resolution and 1000 nits of luminescence. This stunning and intuitive interface places all critical functions just two touches away on its anti-glare, anti-smudge, and anti-scratch display. With cutting edge 97% touch accuracy, it is easy to control all of the functionality that comes standard with the system, including SmartView Synthetic Vision, Vertical Situation Display, and ADS-B In weather and traffic display. These features, within a variety of possible screen configurations, lead to improved situational awareness and safety.

P/N 11-16286 ..... ---

BENDIX/KING KT 74 TRANSPONDER

The KT 74 transponder from Bendix/King is the easiest upgrade to the popular KT 76A/C and KT 78A models, with a 'plug and go' capacity. And it's ADS-B compliant, therefore meeting all 2020 requirements. It is low-cost, easy to install and fits into your existing panel. Suiting your needs now and in the future.

KT 74 ADVANTAGE: • Retrofit - 'plug and play' installation • Low-cost solution that will offset future costs • Low power consumption • ETSO and TSO approved Mode S • Accurate readings with updates every few seconds • More efficient routing and better situational awareness • Meets ADS-B 2020 requirements*.....P/N 11-12038 ..... ---

CROWN KY 96A & KY 97A COM

Bendix/ King has designed the KY 96A and KY 97A to operate on 760 frequencies from 118.00 MHz to 136.975 MHz. You can switch between active and standby frequencies. Simply tune the desired frequency into the standby window ("STBY") while monitoring the "USE" channel-when the time is right, simply push the frequency transfer button to transfer the standby frequency into the active window. A remote switch may be installed as an additional means of providing the "flip-flop" function. Up to nine channels can be easily programmed by the pilot into the memory of the KY 96A or KY 97A. The KY 96A & KY 97A remember displayed frequencies and stored frequencies without batteries or external hookup during power shutdown or in the event of a power interruption and have an easy-to-read, illuminated LCD display.

KY 96A (28V) .....P/N 11-03411 ..... ---

Accessories

King Install Manual KY96A/97A .....P/N 11-18005 ..... ---

CROWN SERIES KT-76A MODE C TRANSPONDER

The KT76A is a panelmount, class 1-A transponder and provides maximum performance at any altitude up to 35,000 ft. A compact unit with Large Scale Integrated (LSI) circuitry, reducing both weight and power requirements. All Mode A & Mode C transponders perform the same functions: replying to radar interrogations, providing Air Traffic Control (ATC) with positive identification, and showing your ground speed on the Controller's radar monitor. If you have an encoding altimeter or blind encoder, the transponder will transmit your altitude as well.

KT76A 06 14V (Transponder) .....P/N 11-02438 ..... ---
28V Dropping Resistor .....P/N 11-00913 ..... ---
Replacement Bulb Container .....P/N 11-00522 ..... ---
14V Without Harness .....P/N 11-02440 ..... ---
28V Without Harness .....P/N 11-02441 ..... ---

KING SILVER CROWN KT 76C MODE C TRANSPONDER

The unit features a bright, gas plasma display that shows the selected transponder code and, in a new feature, the encoder altitude output.The KT 76C will fit directly into the existing location of a KT 76A. However, in 28V installations the existing dropping resistor must be bypassed. Unit operates from 11-33VDC. Available with or without antenna.

Without KA 61 Antenna.....P/N 11-03413 ..... ---
With KA 61 Antenna Without Harness.....P/N 11-03414 ..... ---

Honeywell Crown Series can only be sold over the counter. Silver Crown series can only be sold to expermental aircraft (must verify) with harness. For certified aircraft, it must be installed by a Honeywell Dealer. Please call 1-800-826-3160 for partner shop location for certified installs. (price of installation not included)

BENDIX KING UPGRADES

See www.aircraftspruce.com for details on upgrading your current Bendix King Avionics.

AV

CROWN KR 22 AUDIO PANEL

The Bendix/King KR 22 Marker Beacon Receiver is a fully independent panel-mounted unit with its own audio output and self-test feature. The unit is all solid-state, and its compact size makes it an easy fit in virtually any panel. A crystal-controlled superheterodyne receiver and 3-light presentation ensures that the KR 22 will give precise visual and aural indications of marker beacon passage. Excellent receiver selectivity eliminates interference. Headphone audio is provided, or if speaker output is desired, the KR 22 may be interfaced with the KA 134 or other audio control panel.

P/N 11-03843 ..... ---

BENDIX KING KMA 30 AUDIO PANEL

The KMA 30 is a convenient "slide in" replacement for select older audio panels. Saves the expense of re-wiring the entire avionics suite. Music and phone Bluetooth® capability provides unsurpassed audio flexibility throughout your airplane. Makes it simple for the pilot to control audio throughout the aircraft. Can even turn music on or off for the pilot while in isolate mode. Delivers full, duplex telephone capability.

KMA 30.....P/N 11-11262 ..... ---
Installation Kit .....P/N 11-11263 ..... ---

Honeywell Crown Series can only be sold over the counter. Silver Crown series can only be sold to expermental aircraft (must verify) with harness. For certified aircraft, it must be installed by a Honeywell Dealer. Please call 1-800-826-3160 for partner shop location for certified installs. (price of installation not included)

KING KI208A-10 VOR/LOC INDICATOR

The KI 208A VOR/LOC Indicator with VOR/LOC Converter and GPS Switching Relays has internal lighting. Internal relays allows from switching between VHF Nav and GPS. It is used with the KX 155 or KX 155A and KLN 89, KLN 89V, or KLN 94.

Specifications: • Weight: 1.00 lbs. (0.45 kg) • Width: 3.25 in. (8.26 cm) • Power Required: 14/28 VDC @ 60 mA max. • Height: 3.25 in. (8.26 cm) • Length: 8.00 in. (20.32 cm) • Lighting Power: 14/28 VDC ..... P/N 11-07599 ..... ---

BENDIXKING KX 200

General aviation's newest and most advanced NAV/COM radio is pilot-friendly by design. That's because we consulted pilots at every phase of a development process that started with a blank CAD screen and ended with the creation of a groundbreaking new radio for the 2020s and beyond.

The BendixKing KX 200 is an easy direct replacement with the same footprint as your current KX 155/165 radio. But that is where the similarity ends. The KX 200 features:

- High-resolution color LCD
- 50-channel memory presets
- 25kh or 8.33kh channel spacing
- Full featured digital NAV/COM with VOR, LOC, ILS, and glide slope
- Compatible with existing indicators and installed equipment
- Compatible with 14- and 28-volt systems
- Possibility to expand capabilities with future Honeywell Anthem cockpit connectivity
- Two-year warranty

BendixKing Makes Upgrading to the KX 200 Easy

Moving up to the KX 200 couldn't be easier, since it's a direct replacement for your current KX 155, 165 and can substitute other radios using the same tray and connector. That also means the KX 200 is compatible with existing equipment, which reduces both cost and aircraft downtime during the conversion.

Description	Part No.	Price
with 14V Retrofit Adapter	11-19760	---
with 28V Retrofit Adapter	11-19761	---
Unit Only	11-19770	---

DUAL SKYPRO GPS RECEIVER XGPS160 FOR IPAD & ANDROID

GPS Receiver with fast signal acquisition and 10Hz positioning updates, making it an ideal GPS for pilots, race car drivers and other fast moving applications. The WAAS receiver is compatible with both GPS (USA) and GLONASS (Russia) systems and it connects via Bluetooth to up to 5 Apple or Android devices. This GPS Receiver also comes with a useful GPS Status Tool app. (Available free on the iTunes App Store). The SkyPro GPS Receiver also includes a non-slip pad for use in a cockpit, car or a boat.

P/N 11-11996 ..... ---

KING INSTALLATION KITS

Model	Part No.	Description	Price
KMA 20	11-00897	Installation Kit	---
KMA 24	11-00898	Installation Kit	---
	11-00909	Mounting Tray	---
KMA 24H-52	11-00899	Installation Kit	---
	11-00909	Mounting Tray	---
KMA 24H-70/71	11-00902	Installation Kit	---
KA 51B	11-00904	Installation Kit	---
KN 53	11-00905	Installation Kit	---
	11-00906	Mounting Tray	---
KN 62A/64	11-00908	Installation Kit	---
	11-00925	Mounting Tray	---
KN 63	11-00929	Mounting Tray	---
KN 72	11-00930	Installation Kit	---
KT 76A	11-00912	Mounting Tray	---
	11-00913	28 Volt Kit	---
KT 76A / 76C	11-00935	Installation Kit	---
KNS 80	11-00937	Mounting Tray	---
KR 87	11-00942	Installation Kit	---
	11-00943	Mounting Tray	---

Model	Part No.	Description	Price
KLN 90B	11-00944	Installation Kit	---
KY 96A/ 97A	11-00915	Mounting Tray	---
KMT 112	11-00946	Installation Kit	---
KLX 135	11-00053	Installation Kit	---
	11-00950	Mounting Tray	---
KX 155/165	11-00951	Installation Kit	---
	11-00952	Mounting Tray	---
KX 155/165 GS	11-00919	Installation Kit	---
	11-00955	Mounting Tray	---
KY 196/197	11-00957	Mounting Tray	---
KY 196A/197A	11-00915	Mounting Tray	---
KI 203 thru 207	11-00958	Installation Kit	---
KI 208/209	11-00922	Installation Kit	---
KI 209A	11-02342	Installation Kit	---
KDI 572	11-00961	Installation Kit	---
	11-00962	Mounting Plate	---
KGX WI131A	11-15382	Installation Kit	---
KGX WI1315I	11-15383	Installation Kit	---
KGX GX1315I	11-15384	Installation Kit	---

AEROCRUZE / XCRUZE AUTOPILOTS

BENDIXKING 100 DIGITAL AUTOPILOT SYSTEMS

The complete system is offered at a low cost, with the choice of three form-factor variations:
• 2" round, • 3" round, • Flat pack

Powerful and Flexible

Emergency autopilot level button helps to bring the aircraft to a wings-level position. Connects to either hand-held GPS or IFR panel mount GPS systems. When connected to hand-held GPS, follows programmed flight plans. When connected to panel mount GPS, autopilot follows roll steering commands to fly complex flight plans Similar to lane assist in automobiles, the AEP stand-by mode monitors aircraft bank angle. Autopilot corrects the bank angles greater than 45 degrees by automatic roll command.

BENDIXKING AEROCRUZE 100 DIGITAL AUTOPILOT SYSTEM FOR CESSNA

The AeroCruze 100 is an affordable and flexible digital autopilot system for Cessna 172, 175, 177, 180, 182, and 185 aircraft. The AeroCruze100 provides a seamless integration with the AeroVue Touch EFIS as well as a variety of other manufacturers.

Aircraft	Size	Voltage	Part No.	Price	Voltage	Part No.	Price
C172/175	2 Inch Round Display	12	11-18019	---	24	11-18021	---
	3 Inch Round Display	12	11-18022	---	24	11-18023	---
	Flat Pack	12	11-18024	---	24	11-18025	---
C180/185/182 Thru Model D	2 Inch Round Display	12	11-18026	---	24	11-18027	---
	3 Inch Round Display	12	11-18028	---	24	11-18029	---
	Flat Pack	12	11-18030	---	24	11-18031	---
182 E Through T	2 Inch Round Display	12	11-18032	---	24	11-18033	---
	3 Inch Round Display	12	11-18034	---	24	11-18035	---
	Flat Pack	12	11-18036	---	24	11-18037	---
C177	2 Inch Round Display	12	11-18243	---	24	11-18244	---
	3 Inch Round Display	12	11-18245	---	24	11-18246	---
	Flat Pack	12	11-18247	---	24	11-18249	---

BENDIXKING AEROCRUZE 100 DIGITAL AUTOPILOT SYSTEM FOR PIPER

The AeroCruze 100 is an affordable and flexible digital autopilot system for Piper PA-28 and PA-32 aircraft. The AeroCruze100 provides a seamless integration with the AeroVue Touch EFIS as well as a variety of other manufacturers.

Aircraft	Size	Voltage	Part No.	Price	Voltage	Part No.	Price
PA-28	2 Inch Round Display	12	11-18038	---	24	11-18039	---
	3 Inch Round Display	12	11-18040	---	24	11-18041	---
	Flat Pack	12	11-18042	---	24	11-18043	---
PA-32	2 Inch Round Display	12	11-18044	---	24	11-18045	---
	3 Inch Round Display	12	11-18046	---	24	11-18047	---
	Flat Pack	12	11-18048	---	24	11-18049	---

BENDIXKING XCRUZE 100 DIGITAL AUTOPILOT SYSTEM FOR VANS

The xCruze 100 is an affordable and flexible digital autopilot system for Vans RV-4, RV-6, RV-7, RV-8. RV-9, and RV-10 aircraft. The xCruze 100 provides a seamless integration with the AeroVue Touch EFIS as well as a variety of other manufacturers.

Aircraft	Size	Part No.	Price
RV-4	2 Inch Round Display	11-18053	---
	3 Inch Round Display	11-18054	---
	Flat Pack	11-18055	---
RV-6	2 Inch Round Display	11-18056	---
	3 Inch Round Display	11-18057	---
	Flat Pack	11-18058	---
RV-7	2 Inch Round Display	11-18059	---
	3 Inch Round Display	11-18060	---
	Flat Pack	11-18061	---
RV-8	2 Inch Round Display	11-18065	---
	3 Inch Round Display	11-18066	---
	Flat Pack	11-18067	---
RV-8 Pre-Punch (post 2006)	Flat Pack	11-18067	---
	2 Inch Round Display	11-18068	---
	3 Inch Round Display	11-18069	---
	Flat Pack	11-18070	---
RV-9	2 Inch Round Display	11-18062	---
	3 Inch Round Display	11-18063	---
	Flat Pack	11-18064	---
RV-10	2 Inch Round Display	11-18050	---
	3 Inch Round Display	11-18051	---
	Flat Pack	11-18052	---

BENDIXKING XCRUZE 100 DIGITAL AUTOPILOT SYSTEM FOR GENERIC EXPERIMENTAL AIRCRAFT

The xCruze 100 is an affordable and flexible digital autopilot system that can fit many experimental airframes. The xCruze 100 provides a seamless integration with the AeroVue Touch EFIS as well as a variety of other manufacturers.

2 Inch Round Display ..... P/N 11-18885 ..... ---
3 Inch Round Display ..... P/N 11-18886 ..... ---
Flat Pack..... P/N 11-18887 ..... ---

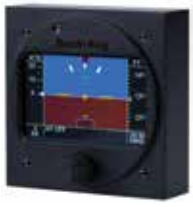
BENDIXKING AEROCRUZE 100 DIGITAL AUTOPILOT SYSTEM FOR MOONEY

The AeroCruze 100 is an affordable and flexible digital autopilot system for Mooney M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K, M20L, M20M, M20R, M20S, M20TN, M20U, M20V Aircraft (Approval Pending). The AeroCruze100 provides a seamless integration with the AeroVue Touch EFIS as well as a variety of other manufacturers. 2 Inch

Round 12v ..... P/N 11-18934 ..... ---
2 Inch Round 24v ..... P/N 11-19258 ..... ---
3 Inch Round 12v ..... P/N 11-18936 ..... ---
3 Inch Round 24v ..... P/N 11-19259 ..... ---
Flat Pack 12v..... P/N 11-18937 ..... ---
Flat Pack 24v..... P/N 11-19260 ..... ---

PLEASE VISIT OUR WEBSITE FOR ADDITIONAL PRODUCTS.

BENDIXKING XCRUZE 110 DIGITAL AUTOPILOT CONTROL HEAD



The main display of the xCruze 110 autopilot contains a PFD flight instrument. This consists of an attitude indicator, airspeed indicator, altimeter, VSI, slip/skid indicator, bank angle indicator, turn rate indicator, and a track slaved DG.

Note: This is the control head only. Must be used in conjunction with a complete xCruze autopilot system ..... P/N 11-17915 ..... ---

BENDIXKING XCRUZE 100 AUTOTRIM MODULE

Failsafe automatic pitch trim option to be added to xCruze autopilot system.

Note: This is compatible only with the xCruze experimental autopilot system. Not for usage with the Aerocruze system.

P/N 11-17914 ..... ---

AV

AUTOPILOT INSTALLATION KITS - TABLET MOUNTS

ADS AUTOPILOT INSTALLATION KITS

This kit includes all the "Best Source" hardware listed in the Garmin® installation addendum including the connector and ground stud hardware for the control head and each servo listed in the Garmin® installation manual. This will save valuable billable time and allow you to do more! **In The Box:** • Hardware for Base and Yaw Options • Hardware for Pitch, Roll, and Yaw Servos Including Environmental Solder Sleeves. • All Available Material Certs (Upon Request) • Aviation Design and Supply Certificate of Conformance

Part No.	Autopilot	Aircraft	Price
11-20480	GFC 500	Beechcraft 19 / 23 / 24	---
11-20481	GFC 500	Beechcraft 33 Series	---
11-20487	GFC 500	Beechcraft 35 C / D / E / F / G	---
11-20475	GFC 500	Beechcraft 36 / A36 Sn: E1-E571	---
11-20467	GFC 500	Beechcraft A35 / B35	---
11-20476	GFC 500	Beechcraft A36 Sn: E572 & On, A36tc	---
11-20510	GFC 500	Beechcraft A45 / D45 (T-34a / T-34b)	---
11-20484	GFC 500	Beechcraft B36tc	---
11-20482	GFC 500	Beechcraft F33a Sn: Ce511-Ce1791	---
11-20483	GFC 500	Beechcraft F33a, Ce316-Ce510	---
11-20486	GFC 500	Beechcraft H35 / J35 / K35 / M35	---
11-20485	GFC 500	Beechcraft N35 / P35	---
11-20478	GFC 500	Beechcraft S35 / V35 / V35a / V35b	---
11-20470	GFC 500	Cessna 172 / F172	---
11-20469	GFC 500	Cessna 172 -175 A / B / C	---
11-20471	GFC 500	Cessna 172d / P172d	---
11-20472	GFC 500	Cessna 172rg	---
11-20490	GFC 500	Cessna 177 / 177a	---
11-20473	GFC 500	Cessna 180 / 185 / 182	---
11-20468	GFC 500	Cessna 182	---
11-20474	GFC 500	Cessna 182c / 182d	---
11-20464	GFC 500	Cessna 190 / 195	---
11-20465	GFC 500	Cessna 201-5	---
11-20495	GFC 500	Cessna 206 (Stol)	---
11-20493	GFC 500	Cessna 206 1974- Earlier	---
11-20491	GFC 500	Cessna 206 1974- On	---
11-20494	GFC 500	Cessna 210 D / E / F	---
11-20492	GFC 500	Cessna 210 G / H / J	---
11-20488	GFC 500	Cessna 210 K / L / M / N	---
11-20489	GFC 500	Cessna R182 / Tr182	---
11-20496	GFC 500	Cirrus Sr2x / Sr22	---
11-20511	GFC 500	Grumman Aa-5, Aa-5a, Aa-5b, Ag-5b	---
11-20479	GFC 500	Mooney M20 C / D / E / F / G 1965 & On	---
11-20497	GFC 500	Mooney M20 M / R / S	---
11-20499	GFC 500	Mooney M20c / N20d / M20e Pre-1965	---
11-20498	GFC 500	Mooney M20j / M20k	---
11-20504	GFC 500	Piper Cherokee Six	---
11-20502	GFC 500	Piper Dakota	---
11-20507	GFC 500	Piper Pa-24	---
11-20477	GFC 500	Piper Pa-28 Series	---
11-20503	GFC 500	Piper Pa-28-235	---
11-20501	GFC 500	Piper Pa-28r	---
11-20505	GFC 500	Piper Pa-28rt-201(T)	---
11-20508	GFC 500	Piper Pa30 / 39 Series	---
11-20500	GFC 500	Piper Pa-32(R) Series	---
11-20506	GFC 500	Piper Pa-32rt	---
11-20509	GFC 500	Piper Pa-34	---
11-20466	GFC 500	Rockwell Commander 112 / 114	---
11-20440	GFC 600	Baron 55 Series	---
11-20442	GFC 600	Baron 58 (1984-After)	---
11-20447	GFC 600	Baron 58 (Pre-84)	---
11-20446	GFC 600	Baron 58p / 58pa / 58tc / 58tca (Pre-84)	---
11-20438	GFC 600	Bonanza 36 / A36 Pre-1984	---
11-20441	GFC 600	Bonanza A36 (1984- After)	---
11-20439	GFC 600	Cessna 182 Series	---
11-20444	GFC 600	Cessna 208 / 208b	---
11-20457	GFC 600	Cessna 310	---
11-20443	GFC 600	Cessna 340 / 340a	---
11-20448	GFC 600	Cessna 414a	---
11-20453	GFC 600	Cessna 421c	---
11-20452	GFC 600	Cessna 425	---
11-20456	GFC 600	Cessna 441	---
11-20458	GFC 600	Cessna P210	---
11-20462	GFC 600	Citationjet 525	---
11-20463	GFC 600	Citationjet 525a	---
11-20445	GFC 600	Daher Tbm700 / 700n	---
11-20459	GFC 600	King Air 200 Series	---
11-20450	GFC 600	King Air 90 Series Option 1	---
11-20451	GFC 600	King Air 90 Series Option 2	---
11-20461	GFC 600	King Air F90	---
11-20455	GFC 600	Pilatus Pc-12	---
11-20454	GFC 600	Piper Pa-31	---
11-20460	GFC 600	Piper Pa-31-350	---
11-20449	GFC 600	Piper Pa-46 Series	---

ARKON SKYHOLD™ YOKE PHONE MOUNT

Features: • Durable phone holder securely fits many smartphones from 2.52" to 5.71" wide • Aviation mount holding your phone for navigation, calculation, briefing, and pilot training • Clamps firmly without movement onto airplane steering yoke columns up to 2.75" wide • 3.75" Robust™ Shaft for quickly adjusting your phone's position • High-strength reinforced composite construction • Features a recess in its design for Apple MagSafe Charger or equivalent Qi wireless charging systems, allowing you to charge while flying

P/N 11-20759 ..... ---

ARKON SKYHOLD™ IPAD YOKE MOUNT

Features: • Securely mounts your tablet to your aircraft steering yoke • Ideal solution for using your tablet as an EFB (Electronic Flight Bag) • Fits many tablets with 7" to 18.4" screen sizes, including Apple iPad & Galaxy Tab • Clamps firmly without movement onto yoke steering columns up to 2.75" wide • 3.75" Robust™ Shaft for quickly adjusting your tablet's position • High-strength reinforced composite construction

P/N 11-20756 ..... ---

ARKON SKYHOLD™ WINDSHIELD DUAL SUCTION TABLET MOUNT

Features: • Ideal solution for using your tablet as an EFB (Electronic Flight Bag) • Fits many tablets with 7" to 18.4" screen sizes, including Apple iPad & Galaxy Tab • 3.75" Robust™ Shaft for quickly adjusting your tablet's position • High-strength reinforced composite construction • Securely mount your smartphone to your aircraft's windshield • Powerful dual suction mount firmly grips your windshield, keeping your tablet steady during flight

P/N 11-20757 ..... ---

ARKON SKYHOLD™ YOKE LOCKING PHONE MOUNT

Features: • LockVise™ Locking phone holder with key for secure clamping to your aircraft's steering yoke column • Fits many smartphones with cases 4.88" up to 7.18" wide and 2.37" to 3.94" tall when mounted horizontally • Designed for various smartphones, including iPhone, Galaxy, Google, Huawei, and more • Easy access to your phone for navigation, calculation, briefing, and training • 3.75" Robust™ Shaft for quickly adjusting your phone's position • Clamps firmly without movement onto yoke steering columns up to 2.75" wide • High-strength reinforced composite construction for longevity

P/N 11-20762 ..... ---

ARKON SKYHOLD™ WINDSHIELD SUCTION PHONE MOUNT

Features: • Securely mount your smartphone to your aircraft's windshield • Ideal solution for using your phone as an EFB (Electronic Flight Bag), weather app, or other • Designed for various smartphones, including iPhone, Galaxy, Google, Huawei, and more • Durable phone holder securely fits many smartphones from 2.52" to 5.71" wide • 3.75" Robust™ Shaft for quickly adjusting your phone's position • Powerful suction mount • Features a recess in its design for Apple MagSafe Charger or equivalent Qi wireless charging systems, allowing you to charge while flying

P/N 11-20761 ..... ---

ARKON SKYHOLD™ WINDSHIELD TABLET MOUNT

Features: • Ideal solution for using your tablet for navigation, calculation, briefing, and training • IFits many tablet models with 7" to 18.4" screen sizes, including Apple iPad & Galaxy Tab • I3.75" Robust™ Shaft for quickly adjusting your tablet's position • IKeeps your instruments and controls free from clutter • Powerful suction mount • IHigh-strength reinforced composite construction for longevity

P/N 11-20758 ..... ---

ARKON SKYHOLD™ WINDSHIELD LOCKING PHONE MOUNT

Features: • LockVise™ Locking phone holder with key for securely attaching to your aircraft's windshield • Fits many smartphones with cases 4.88" up to 7.18" wide and 2.37" to 3.94" tall when mounted horizontally • Designed for various phone models, including iPhone, Galaxy, Google, Huawei, and more • Easy access to your phone for navigation, calculation, briefing, and training • 3.75" Robust™ Shaft for quickly adjusting your phone's position • Powerful suction mount • High-strength reinforced composite construction for longevity

P/N 11-20760 ..... ---

AV

ICOM PANEL MOUNT TRANSCEIVERS

ICOM IC A220 TRANSCEIVER

Easy channel selection - It is fast and easy to select any of the memory channels in the IC-A220. The "flip-flop" arrow button switches between main and stand-by channels. The dual watch function allows you to monitor two channels simultaneously. Additionally, the improved auto stack memory stores the last 20 channels used and allows you to recall those channels easily.
GPS memory function - When connected to an external GPS receiver* equipped with an airport frequency database, the frequency data such as nearby airports can be transferred and made available. * Ask your dealer for available GPS receiver details.
12V/24V DC power source - The built-in DC-DC converter accepts a 12/24V (11.5–27.5V) DC power source. The IC-A220 is easily installed in most airplanes or vehicles.

Description	Part No.	Price
A220 Unit Only	11-13688	---
A220 Unit + 2 place, 3ft Harness	11-12324	---
A220 Unit with Custom Harness	11-12325	---
A220 with PS-80 Base Station	11-13689	---
A220 with MB-53 for Mobil Mount	11-13690	---
A220 MBA-3 Rear Panel Adapter	11-14470	---
4ft Pigtail Only (2 place) for Experimental Only	11-16670	---

ICOM HM-176 MICROPHONE

The iCOM HM-176 is the compatable microphone for the A210 A200 PS80. Works best with the A210 Air band panel mount transceiver with intercom and OLED display.
P/N 11-06208 ..... ---

ICOM IC A210 CONNECTOR

Connector for the Icom A210 25 Comm Transceiver.
P/N 10-05914 ..... ---

AV

ICOM PS-80 BASE STATION

The PS-80 offers quick, easy installation of the IC-A220 in one compact desk-top unit that combines a power supply, speaker, microphone, headphone and antenna connectors. Power Supply is user selectable for 110 or 220/240 V AC operation and supports a full 7 Watt transmitter output. Large internal speaker booms out 5 watts of audio. Microphone, headphone and antenna connectors are standard in the PS-80 so no wiring is necessary. Just plug in your selected hand or desktop microphone or headphone and outside antenna and youre on the air. Optional SM-6 Desktop Microphone, HM-7 or MIC Hand Microphone and B-ANT Base Station Antenna to complete the package are available and sold separately. Radio not included (use 11-05839 for complete system)
Specifications: • Input voltage: • 117 V AC +/- 10%, • 220 V AC +/- 10%, or • 240 V AC +/- 10% (selectable) • Output voltage: 13.8 V DC +/- 5% (negative ground) * Output current: 6 A • Duty rate: 1 hour for maximum current • Ripple voltage: Less than 20 mV rms • Useable Temperature Range: -10°C to +40°C; +14°F to +104°F • Dimensions (projections not included): 200(W) x 200(H) x 300(D) mm; 7.9(W) x 7.9(H) x 11.8(D) in • Weight: 6.0 kg; 13.2 lb
Icom PS-80 Base Station .....P/N 11-14303 ..... ---
Icom A210B PS-80 Microphone.....P/N 11-18581 ..... ---
Base Station Antenna for Mounting Model B Antenna on top Buildings
P/N 11-18581 ..... ---

ICOM A120 MOBILE COM RADIO

Icom's A120 air band mobile introduces two new features: Active Noise Cancelling (ANC) and Bluetooth® capabilities. The newly added built-in ANC reduces background noise and is effective in extremely noisy airport environments. The automatic noise limiter (ANL) reduces pulse-type noise such as engine ignition. Insert the optional UT-133 Bluetooth® unit and connect a third-party wireless Bluetooth® headset.
This unit is great for any mobile application and it's available in a base station. Both are built to mil spec for superb reliability!
ON-hook scan and dualwatch functions
The ON-Hook scan function automatically starts scanning when the hand microphone is hooked on the microphone hanger. When you take the microphone OFF hook, the scanning stops at the priority channel or displayed channel. The Dualwatch function checks the priority and operating channels alternatively.
Side tone function
When using a third-party headset with the optional OPC-871A headset adapter, the side tone function allows you to monitor your own transmitted voice via the connected headset. Even when using a hand microphone, your voice can be monitored from the headset.
Features:
• Compatible with both 12V and 24V systems • Dualwatch and priority scan functions • Power on password protection • CI-V commands for external control • Connect with other radio devices with the VE-PG3 RoIP gateway
Standard.....P/N 11-14122 ..... ---
With 120V Power Supply.....P/N 11-14123 ..... ---

ACCESSORIES

Description	Part No.	Price
Icom SP-30 20W Large External Speaker.	11-14125	---
Icom VS3 Bluetooth Pendant Earpiece Mic with PTT	11-14126	---
Icom HM216 Standard Mic for A120	11-14127	---
Icom HM-217 Mic with Speaker and Programmable Buttons	11-14128	---
Icom SM-26 Desktop Mic with Monitor Switch	11-14129	---
Icom OP-C2275 5M Connection Cable	11-14130	---
Icom OPC-2344 Modular Connector Programming Cable	11-14133	---
Icom ICT ICO11 120V Power Supply and Cabinet	11-16502	---
Icom OPC344 A110 / A120 Power Cable	11-16500	---

ICOM IC-A110-05B VHF AIR BAND TRANSCEIVER

The Icom IC-A110-05B is rugged and reliable for serious ground crew communications. The IC-A110-05B can plug right into an AC wall (110W) receptacle. Great for FBOs. The unit features a front mounted speaker, free from any obstacle blocking and puts out 10W of power for the external speaker. • Covers the 118-136.975 frequency range.
Features: • Equipped EEPROM system provides maintenance free memory backup capability, without the use of a separate backup battery • Various scan functions, such as VFO and priority scans are available • Limited number of keys for simple manipulation, but providing advanced multi-functions • A total of 20 memory channels are available • 36 W (pep) of powerful output, 9W (Carrier) output • Excellent durability to cope with even the toughest workplace
Specifications: • Dimensions: 150(W)x 50(H) X 180(D) mm • Weight: 1.5kg; 3lb. 5 oz. • Warranty 2 years • Power supply requirement: 13.75 VDC and 27.5 VDC • Current drain: Transmitting: 5.0 A max, Receiving: 4.0 A • Operating temperature range: IC-A110(-30° C to +60° C); IC-A110EURO(-20° C to +55° C) • Frequency stability: IC-A110 (5 ppm)
Icom B-ANT Building Antenna.....P/N 11-18581 ..... ---
Icom K220A Magnetic Mount Car Antenna ..P/N 11-06196 ..... ---
Icom K220C Hole Mount Car Antenna .....P/N 11-06197 ..... ---
Hand Microphone for A110.....P/N 11-08864 ..... ---

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Please view our website for current prices.

ICOM HANDHELD TRANSCEIVERS

ICOM A16 VHF COM AIR BAND TRANSCEIVER

The A16 is built tough and rugged like all Icom radios. It is the smallest radio with the loudest audio on the market, featuring 1500 mW of powerful clear audio. Packed with 6 watts of power for longer range, the A16 is also waterproof to IP67 standards. The A16 is the ideal flight companion for the student pilot, for ground crew with one hand operation on the flight line, or as a back up in your ditch bag. Its 2400mAh Li-ion battery lasts over 17 hours, and the radio includes a sit-in rapid charger.

Standard.....P/N 11-17236 ..... ---
with Bluetooth.....P/N 11-17237 ..... ---

ACCESSORIES FOR A16

Model	Description	Part No.	Price
BC213	Rapid Battery Charger	11-17240	---
BP280	7.2V Battery	11-17238	---
AD130	Adapter Cup for BC214	11-17239	---
BC213NAC	Rapid Charger Cup for BP279 Battery	11-17241	---
BC214E	Six Unit Charger for BP279/BP280 Radios	11-17243	---
BC214	Six Unit Charger for BP279/BP280 Radios	11-17242	---
HM240	Waterproof Aviation Speaker Microphone	11-17245	---
OPC-2401	Headset Adapter	11-17397	---

ACCESSORIES FOR IC-24, A6, A14/S

Model	Description	Part No.	Price
CP20L	Cigarette Lighter adapter. DC-DC Converter. Will charge from 12-24V	11-03604	---
OPC-478	Programming Cable	11-18563	---
BP-210N	Icom Battery	11-04385	---
OPC-656	OPC-656 DC Power Cable. For using the BC-121N with a DC power supply. (12–20 V DC required). Not an aircraft power cable for radios.	11-05022	---
BC-167SA	80AD Wall Charger 117V	11-09311	---
MB-86	Swivel Belt Clip for IC-A24 & IC-A6	11-05002	---
MB-103	Icom Belt Clip	11-03494	---
PTT-SW	Icon Headset PTT Switch for IC-A6, IC-A3, IC-A4, IC-A5, IC-A22, IC-A23, IC-24A	11-18529	---
BC-147SA	AC Adapter for BC-192	11-09317	---
SP-35	External Speaker	10-05753	---
OPC-871A	OPC-871A Headset Adapter - For connecting a standard aviation headset to the IC-A120/IC-A110.	11-15065	---
BP288	Li-ion 7.4V 2350mAh (typical) for A25 Series handhelds.	11-15463	---
HM-231	Waterproof Speaker Microphone for A25	11-15470	---
BC123SA-51	AC Adapter For Rapid Charger US Plug	11-15467	---
BC-224	Rapid Charger With BC123SA	11-15468	---
MB96N	Swivel Belt Hanger Use With Standard Belt Clip	11-15466	---
MB133	Alligator Type Belt Clip	11-15464	---
CSA25	A25 Programming Software	11-15471	---
OPC478UC	PC to Handheld Programming Cable with USB	11-15472	---
BC123SA	AC Adapter For Rapid Charger	11-16077	---
CBE-232	Battery Eliminator for ICOM A14/F14	11-08252	---
HM-234	Speaker Microphone	11-15225	---

ICOM A25C VHF AIR BAND COM RADIO

The A25C is a powerful air band handheld with 6 watts of power and an IP57 waterproof rating; weather cannot stop these radios. The handheld includes a large 2350mAh Li-ion battery, providing a long operating time. The easy-to-use interface and large 2.3-inch LCD display combine to provide stress-free programming and in-flight operation. Frequencies: TX (COM); 118.00-136.975MHz. RX (COM); 108.00-136.975MHz. RX (Weather); 161.650-163.275MHz Channel spacing: 8.33/25KhZ. Channels: 200 (20CH x 10 banks). Battery life: 2350mAh Li-ion battery, up to 10.5 hours. Typical operation with Tx:Rx:Stand-by duty ratio = 5:5:90, Power save ON. Version: Communications only.

Features:

• IP57 dust-protection and waterproof construction • "Flip-flop" channel recall • Smart battery with detailed battery status • .121.5MHz emergency key • Weather channels • Priority watch • VFO scan, memory-channel scan, priority scan • ANL (Auto Noise Limiter) for noise reduction • Side tone function • Internal VOX capability

110V (Rechargeable Battery).....P/N 11-15459 ..... ---
A25C Sport (AA Battery Pack) .....P/N 11-16533 ..... ---

ICOM A25N VHF AIR BAND NAV / COM / GPS RADIO WITH BLUETOOTH

The A25N is a powerful air band handheld with 6 watts of power and an IP57 waterproof rating; weather cannot stop these radios. The handheld includes a large 2350mAh Li-ion battery, providing a long operating time. The easy-to-use interface and large 2.3-inch LCD display combine to provide stress-free programming and in-flight operation. This handheld features built-in Bluetooth®, GPS and VOR navigation. Output power: 6W typ. (PEP), 1.8W (CW). Frequencies: TX (COM); 118.00-136.975MHz. RX (COM/NAV) ; 108.00-136.975MHz. RX (Weather) ; 161.650-163.275MHz. Channel spacing: 8.33/25KhZ. Channels: 200 (20CH x 10 banks). Battery life: 2350mAh Li-ion battery, up to 10.5 hours. Typical operation with Tx:Rx:Stand-by duty ratio = 5:5:90, (Bluetooth OFF, GPS ON). Version: Communications plus navigation. Large easy to use LCD. The A25's large 2.3-inch LCD provides user-friendly, graphic screens. The day mode allows pilots to view the screen in direct sunlight and the night mode makes it easy to read in the dark.

Features:

• Powerful Air Band Portables w/ Built-in GPS & Bluetooth®* • 6 Watts (PEP) – Expands COM Coverage • Easy-to-Use Intuitive Interface • Large, Easy-to-Read LCD Screen, w/ Night Mode • Flip-Flop Channel Recall • Battery Status Screen • 121.5MHz emergency key • Weather channels • Priority watch

110V .....P/N 11-15461 ..... ---
BP289 AA Battery Case .....P/N 11-16396 ..... ---
OPC2144 Right Angle Adapter.....P/N 11-16395 ..... ---
OPC2379 Headset Adapter for A25 .....P/N 11-17252 ..... ---

CBE-210N BATTERY ELIMINATOR

The CBE-210 is a DC battery eliminator for ICOM handheld radios such as the IC-V8, F3GT, F4GT, & F21GM. One end plugs into a 12-13.8VDC lighter socket. The coiled cord links the lighter plug to the battery housing, which clips onto the back of the radio. The CBE-210 includes Voltage & Current-limiting circuitry; noise filtering circuitry is also built into the housing. 5A fuse is located in the Cig Plug.

P/N 11-08252 ..... ---

ACCESSORIES FOR A14

Description	Model	Part No.	Price
Antenna A4 A5 A6 A23 A24	FAB02AR	11-05031	---
Headset Adapter	PAOPC499	11-18537	---
AC Adapter 230V - Used with the BP-160, it charges the BP-232 in approx. 3 hours	BC-145SE	11-08671	---
Belt Clip - Swivel type	MB93	11-06212	---
Belt Clip - Alligator type	MB94	11-06213	---
Rapid Charger (BC160-01)	BC160-01	11-06219	---
DC Power Cable for BC119N or BC160	OPC515L	11-18533	---
DC Power Cable for BC121N	OPC656	11-05022	---

AV

ICOM IC-R6 HANDHELD RECEIVER

100 kHz – 1309.995 MHz* wideband coverage. Radio provides superior sensitivity and receiver characteristics that is insusceptible to interference. Amateur stations, AM, FM, short wave broadcasts, TV audio* and a variety of utility communications can be caught and listened to. Frequency range depends on version. Analog TV audio only. Cannot decode digital TV audio. With the supplied rechargeable Ni-MH cells (1400mAh × 2), the IC-R6 provides up to 15 hours of continuous receive capability*. At 50 mW output using external speaker. 1300 memory channels with 22 memory banks. The VSC opens the squelch only when a modulated signal is detected and ignores un modulated beat noise. The IC-R6 can be powered by rechargeable Ni-MH cells, or with alkaline batteries. Run the IC-R6 using the AC adapter, BC-196S, or opt for a cigarette lighter cable, CP-18. When used the optional drop-in charger stand BC-194 with the AC adapter or cigarette lighter cable, you can easily start charging the Ni-MH cells, while eliminating the need to connect the power source to the DC power jack of the receiver.

Icom IC Sport R6 Blocked. .....P/N 11-12975 ..... ---

YAESU FTA 250L VHF HANDHELD RADIO

The Yaesu FTA-250L is an affordable, compact (COMM ONLY) Airband transceiver. Featuring an extremely rugged Polycarbonate housing with an IPX5 Waterproof rating for use in harsh environments with rain, splash and spray. Loud 700mW audio output guarantees that radio calls will not be missed even in noisy environments. 8.33kHz Narrow Band capable, with a huge programmable 250 channel capacity memory bank. The FTA-250L comes programmed with Yaesu's exclusive E2O Easy to Operate menu system making the radio a pleasure to operate without the use of a manual. The intuitive operating system is further complimented by the high resolution Dot Matrix display and the bright, fully Lit, sunlight viewable backlight. Value packaged with a High Capacity (1950mAh) Li-ion battery, Headset adapter, belt clip, 100-240VAC charger, 12VDC charger / power cable, with drop in charging cradle. The Yaesu FTA-250L is backed by a industry leading 3 year waterproof warranty.

P/N 11-15413 ..... ---

FTA 250L Programming Cable

P/N 11-16535 ..... ---

YAESU FTA 450L VHF HANDHELD RADIO

5W TX output. Large 1.7" x 1.7" Dot matrix Display. Back-lit Keypad and Display. 800 mW Audio Output. 200 Memory Channels. 8.33kHz Narrow Band compatible. IPX5 Waterproof rating. Includes High-Capacity 1800mAh Li-ion battery. Includes Alkaline battery tray (6 x AA). NOAA Weather Channels with WX alert. PC programmable.

P/N 11-14905 ..... ---

YAESU FTA-850L VHF HANDHELD RADIO

Introducing the Yaesu FTA-850L portable airband transceiver, precisely engineered to meet the requirements of top aviators. Boasting top tier features like a 2.4" full-color TFT display, enhanced navigation features using ILS, VOR, or GPS, and a 400 channel memory bank. Forget the wires, featuring a Built-in Bluetooth module allowing operation with a commercially available Bluetooth headset, or use with Yaesu's optional SSM-BT10 headset. Built around an ultra-durable polycarbonate housing, the FTA-850L meets the IPX-5 water proof rating, and the stringent MIL-STD-810H standards. Packaged with a high capacity 2200mAh Lithium-Ion battery, Headset adapter, 100-240VAC charger, 12VDC charger/Power cable, drop in charging cradle, backup Alkaline battery tray, and heavy duty belt clip. All backed by an industry leading 3 year waterproof warranty .....P/N 11-18962 ..... ---

YAESU VERTEX FTA 550 VHF HANDHELD

The YAESU FTA-550 is packed with features, yet very affordable. Boasting an oversize full dot matrix LCD display, the FTA-550 Airband Transceiver provides full communication on the Aircraft communications Band and additionally provides VOR and ILS navigation features on the "NAV" band. The FTA-550 includes NOAA weather band monitoring and the capability of programming up to 200 memory channels with a quick and easy channel recall feature. The brand new easy to operate menu system is icon driven making it simple to navigate through all of the powerful features this transceiver has to offer. Additionally the FTA-550 can easily be reprogrammed in minutes using the optional PC Programming software and the supplied USB programming cable.

Features: • Easy to Operate Menu system • Huge Dot Matrix Display (160 x 160 dots) • VOR Navigation Display • 200 Memory channels with up to 15 Alphanumeric characters.

Specifications: • 25kHz & 8.33kHz spacing • 5 Watts TX Output Power (Airband: AM 5W P.E.P. type, 1.5W carrier) • Huge 1.7" x 1.7" Full Dot Matrix display (160 x 160 Dots) • ILS Navigation Display • NOAA Weather Channel receive* • NOAA Weather Alert* • 200 Memory Channels with 15 alphanumeric characters • Back-lit Keypad and display with dimmer • Water Protection -IPX5 Rating • Loud Audio (800 mW).

AA Battery Version .....P/N 11-12461 ..... ---

Li Ion Battery Version 110V .....P/N 11-12460 ..... ---

YAESU VERTEX FTA 750L VHF HANDHELD RADIO/GPS COMBO

The YAESU FTA-750L combines tradition with innovation. Born from a history of high quality communications the FTA-750L now includes a 66 channel GPS receiver for reliable navigation. Boasting an oversize full dot matrix LCD display, the FTA-750L Airband Transceiver / GPS provides full communication on the Aircraft communications Band and additionally provides VOR and ILS navigation features on the "NAV" band, and waypoint navigation with the built in GPS receiver. The FTA-750L includes NOAA weather band monitoring and the capability of programming up to 200 memory channels with a quick and easy channel recall feature. The brand new easy to operate menu system is icon driven making it simple to navigate through all of the powerful features this transceiver / GPS has to offer. Additionally the FTA-750L can easily be reprogrammed in minutes using the optional PC Programming software and the supplied USB programming cable.

Features: • Integrated 66 Channel WAAS GPS receiver • GPS Position Logging operation • ILS (Localizer & Glide Slope) and VOR Navigation • Easy to operate menu system • Huge Dot Matrix LCD display • 200 Channel Memory bank • PC Programmable.

Specifications: • 25kHz & 8.33kHz spacing • 5 Watts TX Output Power • Huge 1.7" x 1.7" Full-Dot Matrix Display (160 x 160 dots) • ILS Navigation Display (Localizer and Glide Slope) • VOR Navigation Display • Easy to operate menu system • Integrated 66 Channel WAAS GPS receiver • Waypoint Navigation • GPS Position Logging • NOAA Weather Channel Receive (U.S.A. Version Only) • NOAA Weather Alert (U.S.A. Version Only) • 200 Memory Channels with 15 alphanumeric characters • Back-lit Keypad and Display • Water Protection – IPX5 Rating • Loud Audio (800 mW) • High-Capacity Li-Ion Battery Pack (7.4 V 1800 mAh) • Alkaline Battery Tray (AA x 6).

110V .....P/N 11-12459 ..... ---

YAESU 550/750C ACCESSORIES

Description	Part No.	Price
Yaesu Vertex BNC Helical Antenna for FTA 250 / 450 / 550 / 750	11-18352	---
Yaesu Vertex Alkaline Battery Tray for FTA 550 / 750	11-12831	---
Yaesu Vertex 1800 Mah Li-ion Battery FTA 550l / 750l	11-12832	---
Yaesu Vertex Headset Adapter Cable with PTT Connection for FTA 250L / 450L /550 / 550L / 750L	11-18500	---
Yaesu Vertex Charging Cradle for FTA 550 / 750	11-12833	---
Yaesu Vertex 110 VAC Overnight Charger for FTA 550 and 750	11-17432	---
Yaesu Vertex 220 VAC Overnight Charger for FTA / 550 / 750	11-12836	---
Yaesu Vertex Speaker Microphone for FTA 550 / 750	11-12837	---
Yaesu Vertex Earphone for FTA 550 / 750	11-12838	---
Yaesu Vertex Programming Cable for FTA 550	11-12840	---
Yaesu Vertex Belt Clip for FTA 550	11-12841	---
Yaesu Earbud Speaker	11-14906	---
Yaesu Belt Clip Hanger Bracket	11-14907	---
Nylon Carring Case (750L / 550 / 450)	11-16259	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

YAESU FTA-310 TRANSCEIVER ACCESSORIES

Based on the same design as the extremely popular VXA-300. Now with and improved BNC antenna connection, and a unique 12VDC charging sleeve. Features a more powerful audio amplifier than ANY other handheld airband transceiver and comes supplied with a 1400 mAh nickel metal hydride battery pack that provide almost double the battery capacity of Icom's IC-A23 or IC-A5! **Includes**: FTA-310: 5W Portable VHF Transceiver with VOR, ATV-10: Helical Antenna (Q3000194), CN-3: SMA to BNC adapter, FBA-25A: Alkaline Battery Tray, FNB-83: 1400 mAh Ni-MH battery, CD-28: Charging cradle, E-DC-5B: DC cable with 12v cigarette lighter plug, PA-48B: 110VAC Overnight charger, CT-96: Headset Adapter Cable. Note: The 220v model comes with the PA-48C: 220 VAC Overnight charger.

Description	Part No.	Price
VXA-300 PILOT III Accessories (Included)		
Description	**Part No.**	**Price**
Yaesu/Vertex Cigarette Charger	11-12177	---
ATV-10 - Rubber Duck antenna (included)	11-04343	---
Yaesu Vertex 220v Wall Charger for VXA-220, VXA-300, VXA-710	11-09915	---
FNB-83 - 7.2v 1400mah Ni-MH battery (included)	11-04347	---
Clip-14 - Swivel belt clip (included)	11-04340	---
VXA-300 PILOT III Accessories (Optional)		
Description	**Part No.**	**Price**
CT-96 - Headset Adapter for VXA-300, VXA-700, VXA-710	11-16957	---
Yaesu Vertex 220v Wall Charger for VXA-220, VXA-300, VXA-710	11-02381	---
Rubber Duck Antenna for VXA-100/150/210	11-00827	---
FTA-230/310 Accessories		
Description	**Part No.**	**Price**
VA 370C 220V Rapid Charger for FTA 230/310	11-11277	---

YAESU SBR-26LI HIGH CAPACITY BATTERY

Yaesu SBR-26LI High Capacity 7.4V 2,500mAh Li-ion Battery for use with the Yaesu FT-25R and FT-65R Handheld Radios.....P/N 11-16534 ..... ---

YAESU STANDARD DC CABLE PLUG & WIRE ONLY

Yaesu Standard E-DC-6 DC cable; plug and wire only.....P/N 11-08490 ..... ---

YAESU STANDARD ALKALINE BATTERY TRAY

Yaesu Standard FBA-25A Alkaline Battery Tray.....P/N 11-08492 ..... ---

CRS AM/FM CLOCK RADIO BASE SCANNER

The BC345CRS is a multi-featured conventional channel scanner. Easily enter and store frequencies for police, fire/emergency, marine, air and more into 500 channels over ten banks. The scanner also features AM/FM clock radio with snooze and NOAA weather broadcasts.

P/N 11-11412 ..... ---

ICARUS EXTENNA SWITCH FOR HANDHELD RADIOS

The EXTenna Switch from Icarus Instruments allows handheld radios quick access to an existing external comm antenna for extended range while inside the cockpit. In the event of aircraft radio failure, a pilot can simply plugin any handheld radio, with the supplied RF cable, into the EXTenna Switch for continuing communications. It installs into the aircraft panel and permits the use of an existing VHF communication antenna, installed on the aircraft, to be used with any handheld VHF radio, allowing for extending the range and reliability of battery operated handheld radios. Regular handheld radio antennas are limited in range when used inside the aircraft cockpit. The EXTenna Switch solves this problem by eliminating the need to install a dedicated backup VHF communication antenna, saving installation cost and aerodynamic drag.

The EXTenna Switch is installed between an existing comm radio and the antenna. Any handheld radio can be used, with the supplied RF cable, and provides the handheld radio to use the aircraft's communication antenna. Plugging a handheld radio, discounts the comm radio and gives access to the handheld.

The EXTSW-1 Extenna Switch mounts behind the instrument panel using two supplied 6-32 screws. The 3.5 mm jack on the EXTenna Switch extends through the panel to allow access using the supplied cable when needed. An included template simplifies the installation of the EXTSW-1 to serve as a guide for drilling the mounting holes.

P/N 11-20536 ..... ---

GLOBALSTAR AVIATION KITS

The GSP-1700 Package is ideal for the "pilot on the go" who wants and needs the convenience of portable satellite communications. Small and lightweight, the GSP-1700 allows you to go from cockpit to car, beach, hangar or wherever your final destination without being tethered to your aircraft.

The GSP-1700 is the ultimate handheld portable satellite phone so you can stay connected beyond cellular. Antenna easily mounts to the outside of an aircraft. With the Globalstar 9600 you have WI-FI enabled devices (smartphones, laptops, tablets) to send and receive email using the fastest data speeds in the MSS industry. Spot Trace Satellite technology that tracks beyond the reach of traditional cellular coverage. Includes Phone.

14V .....P/N 11-14324 ..... ---

AVIONICS PIN TEST KIT

Technicians can work with a higher degree of safety when using the PIN-TS KIT. This kit contains the correctly sized tools for successful connector pin-testing without the need for improvised testing methods with uninsulated electrical contacts or the wrong size of pins that can result in electric shock to the user or lost/damaged pins. This kit has all of the essentials including insulated test leads, a ground lead, and two sets of four screw-in pins.

P/N 11-13538 ..... ---

PEREGRINE AIRSPEED SWITCH KIT

Airspeed switch kit for Trig TT31 & King KT74 transponders. Includes: • Airspeed differential pressure switch, qty 1 (PA-111114-821) • Clear Poly-Flo tubing, qty 48 inches (PA-111114-825) • Nylon union tee, qty 2 (PA-111114-831) • Nylon insertion stabilizer, qty 6 (PA-111114-833).

P/N 10-05913 ..... ---

WINDSHIELD ANTENNA KIT FOR HANDHELD RADIOS

This antenna kit attaches to the inside of the windshield & dramatically improves portable nav/com's transmit, receive, and VOR performance based on extensive field testing. It is portable and ideal for those who can't use an ANT-SB. Simply attaches one's own flexible antenna to inside of windshield with BNC, coax, suction cup adapter. Works with any handheld radio using BNC connections .....P/N 11-18603 ..... ---

AV

FLIGHTLINE FL-M1000AB BASE STATION

FL-M1000A Air Band Land Radio installed in an Astron Base Station.

The FL-M1000A is an Air Band Land Mobile Radio designed for land vehicles, or base station use, not for Aircraft. The radio can be operated with Hand Microphone or Headset. You can choose audio output from External Speaker and/or Headphone. The radio has various built-in Scan functions.

Features: Convenient Base Station Enclosure • Easy to read alpha/numeric display • Scanning • Usable in the 760 Channel VFO mode Simple to program • Compatible with a standard Push-to-Talk Switch and Air Band Headset • Priority scanning • Multiple speakers, antennas, cables and programming options • Front panel control of external speaker. Hand Mic is included. **Specifications:**• Frequency Range: 118.0 MHz – 136.975 MHz • Output Power: 9.44 watts • Channel Spacing: 25kHz • Mode: 6K00A3E • Number of Memory Channels: 99 • Antenna Connection: SO-239 • Power Supply Requirement: 13.8V – 26.4V • Current Drain (at 13.75VDC): Transmitting: 6A / Receiving: 6A / Standby: 260mA • Operating Temperature Range: -22ºF to 140ºF • Frequency Stability: ±5 ppm P/N 11-09190 ..... ---

GARRECHT TRANSPONDERS

VT01 UltraCompact

The Garrecht Transponder VT-01 is a flexible and modular system concept, in a compact size (57mm) with a very low current and integral alticoder. Available as Class-1 (125 Watt) or Class-2 (71 Watt) System. **Specifications**: Certification i.a.w: ETSO-2C112a, ED-73B •Min. RF Output power @Antenne: Class 1: 125 Watt Class 2:71 Watt. • Integral alticoder: Yes • Weight control unit: 0,21 kg. •Weight main unit: 0,61 kg •Supply voltage: 9-32 V DC • Power consumption (operation) @ 13,8 V (1200 Mode A/C or 50 Mode-S replies): Class 1: 0,24 A Class 2:0,22 A • Power consumption (on Ground) @ 13,8V (Squitter active): Class 1: 0,17 A Class 2: 0,16 A

Transponder Class 2 .....P/N 11-04530 ..... ---
Transponder UltaCompact Class 1 .....P/N 11-05869 ..... ---
Transponder UltaCompact Class 1 .....P/N 11-05870 ..... ---

ACH1000 ADVANCED CONTROL HEAD TRANSCEIVER

Blue Sky Network's Advanced Control Head (ACH1000) aviation transceiver is the perfect tool for pilots, operators, and fleet managers around the globe. Working in conjunction with our D1000-series Iridium transceivers, it is the ideal upgrade to add voice and messaging capability to and from the cockpit. The ACH1000 control head integrates with the on-board intercom system, allowing the pilot or co-pilot to easily dial or receive calls directly through the headset. Users can pre-program up to 10 speed-dial numbers, delay, route diversion and weather requests. The crew can also easily receive and read email messages from the iridium transceiver display. Moreover, with the simple push of a Quick Position (QPOS) button located on the ACH1000 display, a message is quickly sent to the SkyRouter portal, key email addresses, and mobile phones ..... P/N 11-15233 ..... ---

AIRCRAFT CABIN SPEAKERS

Engineered for 10,000 hours of performance, (minimum), these flame retardant speakers sound clearer and last longer. The magnet assemblies are heavier than original equipment, yet the overall speaker depth is only 2". The voice coils are heat-proof to withstand high power levels and the gaskets are treated with a moisture barrier, for unprecedented reliability.

Part No.	Size in inches & Description	Mag. Wt. (oz.)	Imp. (ohms)	Prog. Power (Watts)	Depth	Price
11-04649	6 x 4 x 1.878 P.C. Oval	5.5	3.2	9	1.550	---
11-04646	6 x 4 Round	5.5	3.2	10	2.018	---

FLIGHTLINE FL-M1000A AIR BAND RADIO

FL-M1000A Air Band Land Radio installed in an Astron Base Station.

The FL-M1000A is an Air Band Land Mobile Radio designed for land vehicles, or base station use, not for Aircraft. The radio can be operated with Hand Microphone or Headset. You can choose audio output from External Speaker and/or Headphone. The radio has various built-in Scan functions.

Features: Installs in any vehicle, Easy to read alpha/numeric display, Scanning, Usable in the 760 Channel VFO mode, Simple to program, Compatible with a standard Push-to-Talk Switch and Air Band Headset Priority scanning, Multiple speakers, antennas, cables and programming options, Front panel control of external speaker. Hand Mic is included.

M1000A Radio.....P/N 11-09189 ..... ---
Hand Microphone for M1000A.....P/N 11-11381 ..... ---

SANDIA STX 165 MODE AIRCRAFT XPDR

The STX 165 Sports a professional 1/2 3ATI Bezel that compliments any aircraft panel. Its bright OLED display is readable in virtually all lighting conditions and automatically dims for night time operations. Check out just a few of the STX 165 features.

• Built-in Encoder: Simplifies installations and lowers cost. • Three Timer Functions: Elapsed Flight Time, Up Timer, Down Timer • Pressure Altitude Display: See what altitude your transponder is reporting to Center • Optional OAT Probe Input: Displays Outside Air Temp.,Density Altitude, Icing Alert • Small and Light Weight: 7.4" behind the panel depth, 1.3 lbs. • Electrical Input Voltage: 11-33 Vdc • Current Requirements: 500mA@28Vdc • Power Output: 200 Watts Nominal • Dimensions: 1.78"H x 3.5"W x 7.34"L • Weight: 1.30Lbs • Alt. Encoder: Built-in 35K' Encoder; External RS-232 • Temperature: -20 degrees to +55 degrees C

Sandia STX 165 Panel Mount.....P/N 11-09251 ..... ---
Sandia STX 165R Remote.....P/N 11-09252 ..... ---
Sandia STX 165 OAT Option.....P/N 11-09253 ..... ---
Sandia STX 165 with 5 Foot Harness.....P/N 11-11962 ..... ---
Sandia STX 165 with Custom Harness.....P/N 11-14021 ..... ---

TRANS-CAL ATS-400 ALTITUDE DIGITIZER

The Trans-Cal Model ATS-400 is designed to test, display and simulate the output of Altitude Reporting Equipment, which conform to the ICAO Standard for SSR Pressure Altitude Transmission. In accordance with the U.S. National Standards for I.F.F. Mark X (SIF)/ Air Traffic Control Radar Beacon System SIF/ATCRBS. The ATS-400 will also display the output of altitude reporting equipment which transmit serial data in either RS232, RS422, RS485 or ARINC 429 Label 203. The ATS-400 may be used in the aircraft or on the bench making this an extremely versatile piece of test equipment.

Specifications: Electrical:

• Input Voltage +7.5 to 35Vdc
• Input Current 400mA Max.
• Internal Fuse 2A fast blow .....P/N 11-09607 ..... ---

TRANS-CAL EET-200 ENCODER EMULATOR TESTER

The EET-200 provides the avionics technician a clean, quick and reasonably priced method of emulating an altitude encoder output by providing a known good altitude code source to aide in isolating each data bit D2 through C4. Simply unplug the altitude encoder and substitute the EET-200; rotating the knob will move the transponder through a variety of preprogrammed altitudes testing each data bit in sequence.....P/N 11-09606 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

PRE-OWNED AVIONICS

Virtually all these avionics are in "Serviceable" condition. This is an FAA term that means that the radios have been repaired as needed, tested according to the manufacturer's procedure, and meet the manufacturer's performance specifications. These radios are legally approved for installation and use. These radios come with either a Yellow Tag or a 8130-3 Serviceable tag. Both tags certify that the radio is in "Serviceable" condition. The difference is the geographical area where the tag is accepted. The Yellow Tag is accepted in North America, while the 8130-3 tag is accepted worldwide. Generally 8130-3 tags are issued for our radios, because we rarely know exactly where it will be sent when it is in the shop. With an 8130-3 tag, we know that it can be used by any of our customers. Serviceable units carry a 90 day warranty. All used avionics are subject to availability, and will be shipped with the tray and connector included. Prices can vary. Please specify 14V or 28V when ordering.

All "With Glideslope" units are Glideslope ready.

3M	
3M WX-10 Stormscope	11-06005
3M WX-10A Stormscope	11-06006
ARC	
ARC (Cessna) IN-385A	11-06009
ARC (Cessna) IN-386A	11-06010
ARC (Cessna) IN-514B	11-06011
ARC (Cessna) IN-525B	11-06012
ARC (Cessna) RT-328T NAV / COMM	11-06014
ARC (Cessna) RT-359A Transponder	11-06015
ARC (Cessna) RT-385A NAV / COMM	11-06016
ARC (Cessna) RT-459A Transponder	11-06017
ARC (Cessna) R-485B NAV / COMM	11-06018
ARC (Cessna) R-443B Remote Glideslope Receiver	11-06019
COLLINS	
Collins ADF-650 ADF System	11-06023
Collins ADF-650A ADF System	11-06024
Collins IND-350 GPS / VOR / LOC Indicator	11-06026
Collins IND-350A GPS / VOR / LOC Indicator	11-06027
Collins IND-351 GPS	11-06028
Collins IND-351A GPS	11-06029
Collins IND-650 ADF Indicator	11-06030
Collins IND-650A ADF Indicator	11-06031
Collins RCR-650 ADF Receiver	11-06033
Collins RCR-650A ADF Receiver	11-06034
Collins TDR-950 Transponder	11-06035
Collins VHF-251 COMM Transceiver	11-06036
Collins VIR-351 NAV Receiver	11-06037
GARMIN	
Garmin GI-102A	11-06038
Garmin GNC-250 VFR	11-06040
Garmin GNC-250XL VFR	11-06041
Garmin GNS-430 - 14 or 28 Volts	11-06042
Garmin GNS-530 IFR	11-06044
Garmin GTN-650 GPS / NAV / COMM	11-16398
Garmin GPS-150XL VFR	11-06046
Garmin GPS-155XL IFR	11-06048
Garmin GTX-327 Transponder	11-06051
II Morrow / Garmin AT Apollo GX-50 IFR	11-06056
II Morrow / Garmin AT Apollo GX-55 IFR	11-06057
Garmin GMA 340 Audio Panel Mb Receiver Intercom	11-13211
Garmin GNC 250XL VFR GPS Mm Comm Transceiver	11-13212
Garmin GNC 300XL IFR Approach GPS Mm Comm Transceiver	11-13213
Garmin GNC 420 IFR GPS Comm MFD Mm Gs 14 28 V	11-13214
Garmin GNS 430W Waas IFR GPS Nav Comm MFD Mm GS	11-13215
Garmin GNS 530W Waas IFR GPS Nav Comm MFD Mm GS	11-13216
Garmin GTX 320 Transponder	11-13217
Garmin GTX 320A Transponder	11-13218
Garmin GTX 330 Mode S Transponder TIS Traffic	11-13220
II Morrow Garmin At Apollo Gx-60 IFR GPS Mm Comm	11-13221
II Morrow Garmin At Apollo Gx-65 IFR En Route GPS Mm Comm	11-13222
II Morrow Garmin At Apollo Md200 306 GPS VOR LOB GS	11-13223
II Morrow Garmin At Apollo Sl 30 Nav Comm with GS	11-13224
II Morrow Garmin At Apollo SL 40 Comm	11-13225
GOODRICH	
Used L-3 Goodrich WX 500 Stormscope	11-13245

INSIGHT	
Insight Strike Finder	11-06058
KING	
King KA-134 Audio Panel	11-06059
King KA-44B ADF Loop / Sense Antenna	11-06061
King KCS-55A Compass System (HSI)	11-06062
King KCS-55A Compass System (HSI) with Bootstrap Output	11-06063
King KDI-527 DME Indicator	11-06064
King KI-201C VOR / LOC Indicator	11-06066
King KI-202 GPS / VOR / LOC Indicator	11-06067
King KI-203 VOR / LOC Indicator	11-06068
King KI-204 VOR / LOC/ Glidescope Indicator	11-06069
King KI-206 GPS / VOR / LOC / Glidescope Indicator	11-06071
King KI-208 VOR / LOC / Glidescope Indicator	11-06072
King KI-209 VOR / LOC / Glidescope Indicator	11-06073
King KI-209A GPS / VOR / LOC / Glidescope Indicator	11-06074
King KI-214 VOR	11-06076
King KI-227 ADF Indicator (Non-Slaved -00 Version)	11-06077
King KI-227 ADF Indicator (Slaved -01 Version)	11-06078
King KLN-89 VFR GPS Navigator	11-06079
King KLN-89B IFR-Approach GPS / Moving Map	11-06080
King KLN-90A IFR-En Route GPS / Moving Map	11-06081
King KLN-90B IFR-Approach GPS / Moving Map	11-06082
King KLN-94 IFR-Approach GPS / Moving Map System	11-06083
King KLX-135A VFR GPS	11-06085
King KMA-20 Audio Panel & Marker Beacon Receiver	11-06086
King KMA-24 Audio Panel & Marker Beacon Receiver	11-06087
King KMA-24H (-70 Series) Audio Panel and Intercom	11-06089
King KMA-26 Audio Panel,	11-06090
King KN-53 NAV Receiver	11-06091
King KN-53 NAV Receiver with Glidescope	11-06092
King KN-62 DME	11-06093
King KN-62A DME	11-06094
King KN-62A DME (-01 Version)	11-06095
King KN-64 DME	11-06096
King KNI-520 GPS / VOR / LOC / Glidescope Indicator	11-06097
King KNS-80 NAV / RNAV / DME / Glidescope Receiver	11-06098
King KR-87 ADF System with Non-Slaved KI-227 Indicator	11-06104
King KR-87 ADF System with Slaved KI-227 Indicator	11-06105
King KT-70 Mode S Transponder	11-06106
King KT-71 Transponder	11-06107
King KT-76A Transponder	11-06109
King KT-76C Transponder	11-06110
King KT-78A Transponder	11-06112
King KT-79 Transponder	11-06113
King KX-125 NAV / COMM / Indicator	11-06114
King KX-155 NAV / COMM, 14 Volts	11-06115
King KX-155 NAV / COMM, 14 Volts w/ Glidescope	11-06116
King KX-155 NAV / COMM, 28 Volts	11-06117
King KX-155 NAV / COMM, 28 Volts w/ Glidescope	11-06118
King KX-155A NAV / COMM with Glidescope	11-06119
King KX-165 NAV / COMM, 14 Volts	11-06120
King KX-165 NAV / COMM, 14 Volts w/ Glidescope	11-06121
King KX-165 NAV / COMM, 28 Volts	11-06122
King KX-165 NAV / COMM, 28 Volts w/ Glidescope	11-06123

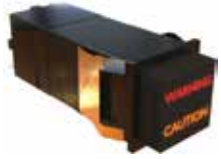
KING CONT.	
King KX-170B NAV / COMM	11-06124
King KX-175B NAV / COMM	11-06125
King KY-196 COMM Transceiver	11-06126
King KY-196A COMM Transceiver	11-06128
King KY-197 COMM Transceiver	11-06130
King KY-197A COMM Transceiver	11-06131
King KY-96A COMM Transceiver	11-06132
King KY-97A COMM Transceiver	11-06133
King KLN 35A VFR GPS Moving Map	11-13226
King KMD 150 Multi Function Display MM	11-13227
King KMD 150 Multi Function Display MM VFR GPS Navigator	11-13228
King KMD 250 Multi Function Display MM	11-13229
King KMD 250 Multi Function Display MM VFR GPS Navigator	11-13230
King KN 63 DME Receiver Transmitter	11-13231
King KN 63 DME Receiver Transmitter 01 Version	11-13232
King KN 75 Remote GS Receiver	11-13233
King KRA 10A Radar Altimeter System	11-13235
King KX 155 Nav Comm 14v 720 Comm	11-13237
King KX 155 Nav Comm 14v With GS 720 Comm	11-13238
King KX 155 Nav Comm 14v With GS 720 Comm	11-16401
King KX 155 Nav Comm 28v 720 Comm	11-13239
King KX 155 Nav Comm 28v With GS 720 Comm	11-13241
King KX 155a Nav Comm 28v	11-13243
King KX 165a Nav Comm With GS	11-13244
King KR 87 ADF Receiver	11-13255
L-3	
L-3 (Goodrich) WX 500 Stormscope	11-13245
L-3 (Goodrich) WX-1000 Stormscope	11-06134
L-3 (Goodrich) WX-1000+ Stormscope	11-06135
L-3 (Goodrich) WX-900 Stormscope	11-06136
L-3 (Goodrich) WX-950 Stormscope	11-06137
MCCOY	
McCoy MAC-1700 NAV / COMM	11-06138
McCoy MAC-1700 VTX NAV / COMM	11-06139
NARCO	
Narco AT-150 Transponder	11-06140
Narco COM-810 COMM Transceiver	11-06143
Narco COM-811 COMM Transceiver	11-06144
Narco DME-890 DME	11-06145
Narco ID-824 VOR / LOC Indicator	11-06146
Narco ID-825 VOR / LOC / Glidescope Indicator	11-06147
Narco MK-12D NAV / COMM ARC (Cessna) Replacement	11-06148
Narco MK-12D NAV / COMM with Glidescope	11-06149
Narco MK-12E NAV/COMM with Glideslope	11-06151
Narco NAV-121 VOR / LOC Indicator / NAV Receiver	11-06152
Narco MK-12D Plus Nav Comm 14V	11-13251
Narco Com 120 Comm Transceiver	11-13248
Narco Cp 136 Audio Panel With Mb Indicator	11-13249
Narco Cp 136m Audio Panel With Mb Receiver	11-13250
Narco NAV 122 Vor Loc GS Indicator GS Nav Mb Receiver Indicator	11-13252
SANDEL	
Sandel SN-3308 Electronic HSI (EHSI)	11-06154
TERRA	
Terra TRT-250D Transponder	11-06155
Terra TX 760D Comm Transceiver	11-13253
TKM	
TKM MX-11 COMM Transceiver	11-06156
TKM MX-170B NAV / COMM	11-06157
TKM MX-300 NAV / COMM	11-06158
TKM MX-385 NAV / COMM	11-06159

PLEASE CALL FOR PRICE AND AVAILABILITY. USED AVIONICS DATA BASES ARE FOR NORTH AMERICA ONLY.

AERO SAFETY SYSTEMS AH500 CENTRAL WARNING PANEL (4X4)

The AH500 combines flight, engine and aircraft configuration data to generate voice and visual alerts. The unit is programmed to warn off against switched, analog and EFIS data inputs based on the switched state, value threshold or combinations of inputs to generate envelope alarms. Envelope alerts could include oil pressure profiles, speed/ configuration envelopes, gear not down and oxygen alerts. Data is gathered from directly connected switches and analog inputs as well as being able to take flight and engine data from Electronic Flight Information Systems (EFIS) and Engine Monitors when available via serial buses. Alerts are mapped to custom voice and/or sunlight readable and auto dimming captions with integration to a remote Master Caution, Master Warning, and alert acknowledgment switch.....P/N 11-15372 ..... ---

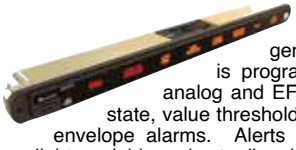
AERO SAFETY SYSTEMS AH501 MASTER CAUTION / MASTER WARNING SWITCH



The AH501 is combined Master Warning and Master Caution annunciator and combined with a high quality snap action alert acknowledgement switch. The AH501 allows the pilot to quickly recognize, acknowledge and mute new alerts and is ideally positioned directly in front of the pilot, just below the coaming for bringing alerts to your attention while keeping your head up. The unit can be wired as a remote Master Caution and Master Warning Annunciator for common EFIS systems such as the Garmin G3X and Dynon. When combined with the Aero Safety Systems AH500 or AH502SD Central Warning Panel annunciators, it functions as a consolidating Master Caution/ Master Warning indicator and new alert acknowledge/voice mute switch as well as providing automatic dimming for night operation.

12/14V .....P/N 11-15373 ..... ---
24/28V .....P/N 11-16753 ..... ---

AERO SAFETY SYSTEMS AH502SD CENTRAL WARNING PANEL



The AH502sd combines flight, engine and aircraft configuration data to generate voice and visual alerts. The unit is programmed to warn off against switched, analog and EFIS data inputs based on the switched state, value threshold or combinations of inputs to generate envelope alarms. Alerts are mapped to custom voice and/or sunlight readable and auto dimming captions with integration to a remote Master Caution, Master Warning and alert acknowledgment switch. The front mounted SD card allows for easy adjustment of programming and voice files.....P/N 11-15374 ..... ---

SANDIA SRU MODULE ENCLOSURES

The **SRU 1** is a single card enclosure which accepts any MARC70 interface module. The SRU 1 is ideally suited for installations where only one MARC70 card is required or where there is limited real estate for mounting the larger enclosures. The SRU 1 can be mounted in any axis and either inside or outside the pressure vessel.

SRU 1 .....P/N 11-11325 ..... ---

The **SRU 5** is a multi-card enclosure that accepts up to five MARC70 interface modules. The SRU 5 can be mounted either inside or outside the pressure vessel. When less than five interface modules are used with the SRU 5, cover plates are placed over the unused card slots. If additional cards are required at a later date, the cover plates can be removed and the appropriate interface card installed. When installing the SRU 5 ample room should be allowed for both connector clearance and for inserting and removing the interface modules. The SRU 5 as well as the interface modules can be mounted in any axis.

SRU 5 .....P/N 11-11326 ..... ---
SRU5-1 .....P/N 11-11327 ..... ---

The **SRU 10** is multi-card enclosure that accepts up to ten MARC70 interface modules. It is ideally suited for installations that will require more than five interface modules. As with the SRU 5, unused slots are covered with cover plates included in the installation kit. These extra slots can be used on future installations, eliminating the need for additional mechanical engineering and approval. The SRU 10 can be installed either inside or outside the aircraft's pressure vessel. For installation flexibility, the SRU 10 and the installed interface modules can be mounted in any axis. Ample room should be allowed for both the connector and for inserting and removing the interface modules.

SRU 10 .....P/N 11-11328 ..... ---

SANDIA SA 3 REGULATOR INCANDESCENT DIMMING MODULE

Regulator/Dimming Board. Provides .5 amps of annunciator drive for lighting display annunciator. Will provide 1 amp short term for test purposes. Switchable between bright and din with both modes field adjustable .....P/N 11-11314 ..... ---

SANDIA SA 3L REGULATOR LED DIMMING MODULE

Regulator/Dimming Board. Provides 0.5 amps of annunciator drive for lighting LED annunciators. Will provide 1 amp short term for test purposes. Switchable between bright and din with both modes field adjustable .....P/N 11-11315 ..... ---

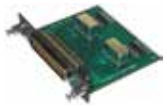
SANDIA SA 15 SIGNAL INVERTER MODULE

Inverter Board converts a High to a Low or a Low to a High to provide common annunciator power. 14 inverter outputs .....P/N 11-11317 ..... ---

SANDIA SA 24 DIODE ISOLATION MODULE

Diode Isolation Module. Provides 23 lines of diode ground in - ground out isolation. Internal FET allows simultaneous test of all lines to ground. Requires 28 Vdc for test.....P/N 11-11318 ..... ---

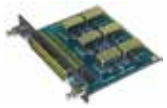
SANDIA SR 263 DUAL 6 POLE RELAY MODULE



Two, six pole nitrogen filled relays. Can be activated simultaneously or individually

P/N 11-11319 ..... ---

SANDIA SR 623 SIX 2 POLE RELAY MODULE



This SR 623 has a total of six, two pole relays in nitrogen filled metal cases.

P/N 11-11321 ..... ---

SANDIA SR 34-1 12 POLE SWITCHING MODULE

The SR34 uses three, four-pole sealed relays to provide a total of 12 lines of signal level switching.

P/N 11-11322 ..... ---

SANDIA SR 54-1 20 POLE RELAY SWITCHING UNIT

The SR54 switching is ideally suited for GPS and other Long Range Navigation Systems that share an HSI/CDI with a VOR/LOC receiver. The twenty poles of switching allow all resolver and steering lines to be switched simultaneously. And the built-in reversionary switching circuitry to ensure VOR/LOC steering is always displayed on the indicator should power be lost or if an ILS frequency is selected in the NAV receiver.....P/N 11-11323 ..... ---

SANDIA SR 64-1 24 POLE RELAY SWITCHING UNIT

The SR64 has six, four-pole relays to provide a total of 24 lines of switching. This multi-purpose switching unit has its relays arranged in a group of four (16 poles) and two single relays (4 poles each).

P/N 11-11324 ..... ---

SANDIA AIS RELAY SWITCHING UNITS

A general purpose Avionics units. Operates on 28Vdc; PMA'd NSN 5999-01-544-0513.

24 Pole.....P/N 11-11313 ..... ---
20 Pole.....P/N 11-11302 ..... ---

SANDIA ST 26 TACH GENERATOR ADAPTER

The ST 26 is a Tach Generator Adapter that converts sinusoidal, 26vac – 400hz output of the Turbine Engine Tach Generators to a digital signal. This TSO approved adapter can be used for aircraft instrument displays or for other control – data collection systems. The ST 26 is approved to work with the most common aircraft tachometers models.

P/N 11-11331 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SKYVOICE GLASSY GUIDE 400 RADAR ALTIMETER

The SkyVoice glassy guide 400 (includes SVA 400 unit and HMR 400 unit) from Holy Micro! LLC, is a 400 ft take-off and landing height announcer, accurate over water and land. **Features**: • FAA approved. • Radar range of 400 ft. • Up to four Gear Reminders. • 400 ft Take-off & Landing Height Announcer for Seaplanes. • Bluetooth or Wired, HUD. • Many user selectable Reminders on take-off and landing: • Check Gear, Checklist, LC GUMPS, Flaps, Speed, Prop, Clearance and Pump. • GPS/MSL Height call-outs & reminders - Check Oxygen, IFR Altimeter, Clearance, Prop & Top of descent. • Run-time reminders like Check Tank and Check Fuel. P/N 11-20527 ..... ---

SKYVOICE ALERT 500 RADAR LIDAR ALTIMETER

SkyVoice Alert LHA 500 from Holy Micro! LLC is the only Take-off and Landing Height Announcer with LiDAR range of 590ft and repeated Gear warnings from 560ft until the gear is down & locked. No more Gear-up landings. In short, HolyMicro! SkyVoice Alert LHA 500 Takeoff and Landing Height Announcer is a co-pilot with bird's eyes for safer flying. It's good for general aviation aircraft like Cessna, Piper, Beechcraft, Diamond, Mooney etc. **Features**: • LiDAR range of 590ft. • Repeated gear warnings from 560ft until the gear is down & locked. • LiDAR based height call-outs, 500 to 1 ft on Take-off/Landing. • Bluetooth or wired, HUD. • LiDAR Central wavelength is 905nm and Frame rate is 100Hz. • Many user selectable Reminders on take-off and landing: Check Gear, Checklist, LC GUMPS, Flaps, Speed, Clearance, Prop and Pump. • GPS/MSL Height call-outs & reminders - Check Oxygen, IFR Altimeter Clearance, Prop & Top of descent. • Run-time reminders like Check Tank and Check Fuel. P/N 11-20526 ..... ---

SKYVOICE GLASSY GUIDE 400 QUICK INSTALL/PORTABLE RADAR ALTIMETER

The SkyVoice Glassy Guide 400 Quick Install / Portable from Holy Micro! LLC, is a portable 400 ft Take-off and Landing Height Announcer, accurate over Water and Land. Radar range of 400 ft. 400 ft Take-off & Landing Height Announcer for all Aircraft. Connects to your headset or audio panel via Bluetooth. Rechargeable battery. Many user selectable Reminders on Take-off and Landing: Check Gear, Checklist, LC GUMPS, Flaps, Speed, Prop, Clearance and Pump. Run-time reminders like Check Tank and Check Fuel.

Silver.....P/N 11-20530 ..... ---
Red.....P/N 11-20528 ..... ---
Blue .....P/N 11-20529 ..... ---
Black.....P/N 11-20531 ..... ---

SKYVOICE 30 MINUTE INSTALLATION KIT

Battery in 30 minute Installation kit is good for running SkyVoice Alert LHA 500 with Bluetooth for 20 hrs. There will be no wired connection to your Aircraft. Using this kit, you can install and test fly with SkyVoice Alert 500 in less than 30-minutes..

P/N 11-20533 .....

SKYVOICE ALERT BENCH TEST KIT

SkyVoice Alert Bench Test Kit allows you to quickly test and play with the SkyVoice Alert. We recommend you buy this kit to test and make sure you are happy with the quality of the audio announcements and there is no unwanted or intolerable noise before you install the unit. If you experience any unwanted noise after install, you can quickly remove the SkyVoice Alert and perform a bench test using this kit to isolate the cause of noise. Most common cause for the noise is a ground loop. Note: LiDAR readings in your room can be very inaccurate or inconsistent due to numerous factors. P/N 11-20532 ..... ---

SKYVOICE LITHIUM ION RECHARGEABLE BATTERY

Lithium Ion Rechargeable Battery with Charger - It is good for running SkyVoice Alert LHA 500 with Bluetooth for 20 hrs. P/N 11-20534 ..... ---

AVIDYNE IFD440 NAVIGATOR

Avidyne's IFD440 provides a plug-n-play touchscreen FMS/GPS/NAV/COM upgrade for GNS-equipped aircraft. Easy to use, easy to install, the IFD440 features all the power and capabilities of a next-generation panel mounted navigator, while utilizing the same tray and connectors as your GNS430. This next-generation panel-mounted navigator also makes flight planning and in-flight changes even easier because the included WiFi/Bluetooth® capabilities work seamlessly with your iPad. You'll have big glass capabilities for a fraction of the cost.

Slide-In Unit.....P/N 11-19625 ..... ---
New Install Unit with Tray.....P/N 11-19626 ..... ---

AVIDYNE IFD540 NAVIGATOR

Avidyne's IFD Series of navigators feature the most intuitive Flight Management System in an easy-to-use, yet powerful design. The IFD540 is everything a pilot could want in an FMS/GPS/COM Navigator. It's award-winning Page & Tab user interface eliminates nested menus, allowing you to go to any page in two clicks or less. Its innovative Hybrid Touch allows pilots to perform virtually all functions using its knobs and buttons, or via the versatile touch screen interface—giving you the choice based on user preference. The IFD540 has FMS Preview that lets you easily create, upload and review your flight plans visually with changes shown on the screen before selection plus in-flight changes are a snap because of our patented GeoFill™ predicts your next entry based on your location, not the sequence in the database. "VFR-Like" view of what's in front of your aircraft displaying 3D terrain with hazard alerting, obstacles, and nearby traffic. Everything you need to see on a bright, easy-to-view 5.7" touchscreen. Slide-In Unit.....P/N 11-19632..... ---
New Install Unit with Tray.....P/N 11-19634..... ---

AVIDYNE SKYTRAX 200 DUAL-BAND ADS-B RECEIVER

SkyTrax200 includes dual-band (1090 MHz and 978 MHz) ADS-B and is also capable of receiving the traffic output from active traffic systems such as the Avidyne SkyTrax600, TAS600 series, Ryan 9900BX, or a legacy SkywatchTM system and combines it with other incoming data presenting you with an integrated view of dual-band ADS-B, TAS, and ATC radar traffic.

The Avidyne SkyTrax200's weather and dual-band traffic can be displayed on Avidyne's IFD-Series GPS/NAV/COMs, Multi-Function displays (MFD) or Entegra R9 integrated flight deck systems and supports standard Capstone and Arinc 429/735 interfaces.

P/N 11-19587 ..... ---

AVIDYNE SKYTRAX AXP322 REMOTE MOUNT ADS-B TRANSPONDER

When you equip your IFD-equipped aircraft with Avidyne's AXP322 Remote-Mount Mode S Transponder, you'll be flying with the knowledge that all ADS-B equipped aircraft will be aware of your ground track, ground speed and altitude.

The remote-mounted Avidyne AXP322 meets FAA requirements for the latest Version 2 1090 MHz Automatic Dependent Surveillance Broadcast (ADS-B) Extended Squitter when coupled to any Avidyne IFD. P/N 11-19592 ..... ---

AVIDYNE AXP340 PANEL MOUNT MODE-S ADS-B TRANSPONDER

ADS-B makes flying is safer because ground stations and other aircraft receive accurate, up-to-date information about your location, ground track, ground speed and altitude when you replace your existing Mode A/C transponder with an AXP340 Mode S Transponder. The panel-mounted Avidyne AXP340 meets FAA requirements for the latest Version 2 1090 MHz Automatic Dependent Surveillance Broadcast (ADS-B) Extended Squitter and is a direct slide-in replacement for existing KT76A/KT78A transponders.

Black Bezel (Includes Tray/Install Kit) .....P/N 11-19591 ..... ---
Gray Bezel (Includes Tray/Install Kit) .....P/N 11-19602 ..... ---
With Skytrax 200 Ads-In & Out Bundle.....P/N 11-19603 ..... ---

AVIDYNE AMX240 STEREO INTERCOM AUDIO PANEL

Avidyne's AMX240 Audio Panel provides the latest features in audio management for general aviation aircraft in a simple, easy-to-use design that includes a full-featured audio source selector panel, intercom, and marker beacon receiver. You love the outstanding sound quality and large, easy-to-read, LED backlit buttons – providing simple mode selection and at-a-glance annunciation of your current audio and intercom configuration. P/N 11-19586 ..... ---

Please VISIT OUR WEBSITE FOR COMPLETE SELECTION OF AVIDYNE PRODUCTS.

AV

MID CONTINENT CDIS – GPS – ANNUNCIATORS

MID-CONTINENT 2 INCH CDI

This indicator will fit the need of aircraft owners of LSA all the way up to business aircraft. The CDI allows for precise and accurate readings. Nav, GPS and VLOC annunciation are built-in and backlit by LED lighting, providing enhanced nighttime and sunlight readability. The CDI has TSO approval from the FAA and will interface with most nav and GPS receivers.
Specifications: • Power Input: Accepts 11 to 32 Volts DC. • Lighting: Internal white LED. Lighting control voltage is selectable for 5, 14, or 28
• Weight: 0.6 lbs. • Length: 3.5 inches
Mid-Continent Instruments and Avionics - CDI MD222-406
(This unit has the NAV/GPS & VLOC annunciations for the Garmin units)
MD222-406 CDI GS Indicator .....P/N 11-05106 ..... ---
MD200-706 CDI GS Indicator .....P/N 10-06014 ..... ---

MID-CONTINENT GPS ANNUNCIATORS

MD41-1510

With fingertip annunciation and flight information in the pilot's primary view, Annunciation Control Units (ACU) offer important features in an efficient design. As an interface with popular NAV and GPS systems, the ACU provides vital safety information including waypoint, approach status and integrity alerting. Approved to strict TSO standards, Mid-Continent Instru-ments and Avionics ACUs are engineered as a compact, affordable solution to the challenge of installing several switches. Most versions are configured 14V or 28V with vertical or horizontal mounting and feature long-life lamps with automatic photocell dimming.

GARMIN WAAS ACU - GNC 420W, GNS 430W/530W			
Model No.	**Configuration**	**Part No.**	**Price**
MD41-1510	28V Horz. for Garmin GTN650/750	10-04768	---
MD41-1512	14V Horz. for Garmin GTN650/750	10-04769	---
MD41-1464A	Horizontal, 14V (head only)	10-02665	---
MD41-1468A	Horizontal, 28V (head only)	10-02663	---
MD41-1484W	Horizontal, 14V WAAS	10-02657	---
MD41-1488W	Horizontal, 28V WAAS	10-02659	---
MD41-1498W	Vertical, 28V WAAS	10-02661	---

GPS 400/500, GNC 420/520, GNS 430/530			
MD41-1418A	Vertical, 28V (head only)	10-02672	---

MID-CONTINENT GPS ANNUNCIATORS - GARMIN WAAS ACU GTN 650 / 750 SERIES

With fingertip annunciation and flight information in the pilot's primary view, annunciation control units (ACUs) offer important features in an efficient design. As an interface with popular NAV and GPS systems, the ACU provides vital safety information, including waypoint, approach status and integrity alerting.

Model No.	Description	Part No.	Price
MD41-1512	Horizontal, 14V, LED lighting	10-04769	---
MD41-1510	Horizontal, 28V, LED lighting	10-04768	---
MD41-1514	Horizontal, 28V, 5V lighting, LED lighting	10-06768	---
MD41-1511	Vertical, 28V, LED lighting	10-06770	---
MD41-1515	Vertical, 28V, 5V lighting, LED lighting	10-06771	---

REMOTE SWITCHING RELAY UNITS

Remote mounted 24-pole unit features eight Nitrogen-filled relays (3 poles per relay) with Gold-plated contacts. Ideal for GPS/VOR transfer and audio switching applications. Relays are activated individually by voltage or ground keying or as a group by ground keying. Versatile Mounting - Horizontal, Vertical or flat mount configurations. Fail-safe fault monitoring through interlocking of all internal relays. Adjustable dimmer output for external annunciations. Quality MIL-SPEC connector kit included. Specifications: Width: 2.86", Height: 1.52", Depth: 2.6", Weight: .75lbs
Remote Relay Unit 14V TSO .....P/N 10-06793 ..... ---
Remote Relay Unit 28V TSO .....P/N 10-06016 ..... ---

MID-CONTINENT 3" CDI

The MD200 Series sets the standard for navigation instruments that are significantly more reliable, longer lasting and easier to read. Thousands have been sold by Garmin with the popular GNS 430/530 systems and the GTN Series touch-screen navigators. The MD200 Series is the preferred replacement for the Collins Micro Line IND 350 Series and replaces the BendixKing KI206. Built-in annunciators are easy to view and save hundreds of dollars on most installations. These CDIs feature new-generation rectilinear meter movements for more accurate readings, plus a course selector and resolver output. The MD200 Series can be configured for 14V or 28V installations.
Features: • Fits standard 3 1/8" panel cutout • All-metal construction with stainless steel ball bearings in critical areas • Deviation bars/pointers hide from view when invalid • LED annunciations for NAV, GPS, VLOC and To/From indication • True OBS course resolver out • Compatible with WAAS GPS receivers **Specifications**: • Voltage Input: 12 – 32 VDC • C**urrent Input**: 0.2 amps max • Lighting: 5V, 14V, or 28V automatic photocell dimming of annunicators • Cutout: Standard 3 1/8" round

Model #	Description	Voltage	Part No.	Price
MD200-706	3-inch, L/R, Glideslope with annunciators	24V Light Tray	10-06014	---
MD200-707	3-inch, L/R, Glideslope with annunciators, Course datum	5V, 14V, or 28V	10-06043	---

MID-CONTINENT GPS ANNUNCIATORS - HONEYWELL KGP 560/860

With fingertip annunciation and flight information in the pilot's primary view, annunciation control units (ACUs) offer important features in an efficient design. As an interface with popular NAV and GPS systems, the ACU provides vital safety information, including waypoint, approach status and integrity alerting. 2-button, Horizontal, 28V
MD41-1208.....P/N 10-06788 ..... ---

MID-CONTINENT AVIONICS ANNUNCIATION CONTROL UNIT HORIZONTAL FOR GPS 155XL/GNC 300XL

With fingertip annunciation and flight information in the pilot's primary view, annunciation control units (ACUs) offer important features in an efficient design. As an interface with popular NAV and GPS systems, the ACU provides vital safety information, including waypoint, approach status and integrity alerting. 14V with Remote Relay
MD41-1444 (REMOTE).....P/N 10-06775 ..... ---

MID-CONTINENT GPS ANNUNCIATORS - GARMIN WAAS GNC 420W GPS 400W / 500W- HORIZONTAL

With fingertip annunciation and flight information in the pilot's primary view, annunciation control units (ACUs) offer important features in an efficient design. As an interface with popular NAV and GPS systems, the ACU provides vital safety information, including waypoint, approach status and integrity alerting. Horizontal, 28V (head only)
MD41-1408A ..... P/N 10-02668 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TABLET MOUNTING SYSTEM

For iPad®, iPad2, iPad (3rd Generation), iPad Mini and other Tablet PCs by simply changing the mounting claws. Sturdy, durable high quality frame construction. Touch points securely hold your tablet in place without any damage. Universal metal tube clamp securely mounts to microphone stands and keyboard stands with tube diameters of up to 28mm. Multi-angle adjustment allows universal positioning of the tablet. The adapter allows for mounting the plate directly to a microphone stand. Quick set-up and release. Weight Packed: 0.88 lb(0.4 kg) Width Packed: 6"(15.24 cm) Height Packed: 8"(20.32 cm) Depth Packed: 3"(7.62 cm) ..... P/N 11-11869 ..... ---

SCOSCHE EXTENDO WINDOW / DASH PHONE MOUNT

• Telescoping arm adjusts from a range of 5.34" to 8.87", with 220° of angle adjustment • Adjustable arms securely hold devices up to 3.5" wide • 360° Adjustable head lets you view your device in portrait, landscape, or any position in between • StickGrip™ adhesive mount pad and suction-cup mount base secure to any surface...P/N 11-19147 ..... ---

GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPHONE 6 / 7

The iFDR Panel Mount series is a flush mounting system to easily dock and seamlessly integrate your Apple iPhone 6 or iPhone 7 into your aircraft instrument panel -- giving it a clean, professional appearance in an easy to view position! Once installed, the iFDR mount allows your iPhone to be docked in seconds, fully connected to power and audio with built-in cable ports. Removal is just as easy -- just slide, push, and remove! Add the convenience of all your favorite iOS aviation apps and communication on your iPhone 6 or 7 in easy reach and integrated in your new or existing panel with the iFDR Panel Mount for iPhone 6 / 7.

iPhone 6+/7+ ..... P/N 13-18918 ..... ---

GUARDIAN SMARTPANEL MOUNT FOR APPLE IPAD MINI 6

The smartPanel Mount for Apple iPad Mini is a new flush mounting system to easily dock and seamlessly integrate your existing iPad Mini into your aircraft instrument panel -- giving it a clean, professional appearance in an easy to view position! Once installed, the smartPanel mount allows your iPad to be docked in seconds, fully connected to power and audio with built-in cable ports. Removal is just as easy -- just slide, push, and remove!

Compatible with all models of iPad Mini through Mini 6, the smartPanel Mount allows you to transform your new or existing panel and use the most popular iPad for aviation in the cockpit, fully integrated with your instrument panel. Your charts and approach plates are in easy sight for reference and you can even use your iPad Mini as a small multi-function display with the many popular iOS aviation apps available. ..... P/N 13-24288 ..... ---

CO GUARDIAN SMARTPANEL MOUNT FOR APPLE IPHONE 11 PRO

A flush mounting system to dock and fully integrate your Apple iPhone 11 into your aircraft instrument panel with Included Fan. Now Approved for Installation in Certified Aircraft and Rotorcraft! The smartPanel Mount series is a flush mounting system to easily dock and seamlessly integrate your Apple iPhone 11 into your aircraft instrument panel -- giving it a clean, professional appearance in an easy to view position! Once installed, the smartPanel mount allows your iPhone to be docked in seconds, fully connected to power and audio with built-in cable ports. Removal is just as easy -- just slide, push, and remove! Add the convenience of all your favorite iOS aviation apps and communication on your iPhone 11 in easy reach and integrated in your new or existing panel with the smartPanel Mount for iPhone 11.

P/N 13-23897 ..... ---

CYCLONE 600 - 6 PORT AVIONICS COOLING FAN

The Cyclone-600 is a light weignt, highly reliable brushless DC avionics blower that delivers 45-50 CFM of forced air to onboard aircraft electronics. The universal mounting system mounts vertical, horizontally or at 45 degrees for straight forward installations for all aircraft make and models.

Specifications: • Voltages: 12-14 VDC 600mA; 24-48 VDC 500mA • CFM: 45/50 CFM at 6000 RPM • Dimensions: 4.5in (H) x 3.0in (W) x 6.25in (L)

Description	Part No.	Price
Cyclone 600 6 Port Fan 12-14V	11-05221	---
Cyclone 600 6 Port Fan 24/28V	11-05222	---

CYCLONE 100 VDC BLOWER KIT

This New blower's universal mounting bracket makes it easy to set-up and install on a verity of aircraft Install immediately on experimental, sport and soon on general aviation, business, rotor-craft, commercial class aircraft as well as Land-Mobile, Marine and Military Vehicles.

Specifications:

• Light Weight: 52 grams, 0.115 lbs • Enclosure: Aluminum, (powder coated) • Vdc, amperage: 12 = 10.2-15.8Vdc, 0.320ma • Vdc, amperage: 24 = 18.2-28.5Vdc, 0.300ma • 1 port = 5/8 inch x 1.0 • Max Static pressure: H2O = 0.64 • Max Air Flow: 6.7 CFM • Universal Mounting Bracket: (4) (mt)(h) • Operating Temp: -55C to +70C • FAA-PMA (pending), 6-30-08 • Ultra-Small Size: 2.0H x 1.00W x 2.0L • Easy Installation: (4 x 6-32) • 1 year Limited Warranty

Description	Part No.	Price
Cyclone 100 12 VDC Blower Kit LS03-02040	11-06567	---
Cyclone 100 24 VDC Blower Kit LS03-02041	11-06568	---
Cyclone 21 3 Port Cooling Fan 12V FAA/PMA	11-18380	---
Cyclone 21 3 Port Cooling Fan 24V FAA/PMA	11-18381	---

SANDIA SAFE 328 - 3 PORT COOLING FAN

The SAFE 328 is a three port blower that can effectively cool a complete avionics suite. Providing a nominal 20 CFM of cooling air (no load), the SAFE 328 provides an alert output should the blower RPM drop below a preset level.

Specifications: • Operating Voltage: 28Vdc • Current Draw: 400 MA Nominal (550MA stratup) • Size: 5.58" x 4.75" x 1.25" • Weight: 1.18 lbs.

Certification: PMA DO160D ..... P/N 11-11301 ..... ---

SANDIA ACF 314 (3 PORT FAN)

The ACF 314 and ACF 328 simultaneously cool up to three avionics units. Operating on 14Vdc and 28 Vdc respectively the ACF 314 and ACF 328 supply up to 20 cubic feet of cooling air per minute, helping maintain your avionics at a proper operating temperature. FAA PMA's and have passed stringent envrionmental testing to ensure years of reliable service. **Specifications**: • Operating Voltage: 14Vdc • Current Draw: 960mA (1.7A at startup} • Size: 5.18" x 5.18" x 2.1" • Weight: 1.18 lbs.

AFC 314 (14V) ..... P/N 11-06345 ..... ---

AFC 328 (28V) ..... P/N 11-11300 ..... ---

SANDIA ACF 528 5 PORT FAN

The ACF528 is a FAA-PMA'd five port cooling fan that produces cooling air for one to five avionics units. Supplying up to 20 cubic feet of air per minute at 28 Vdc, the ACF528 can easily cool an entire stack of avionics. The ACF528 uses a brushless blower motor to provide years of reliable RunQuiet ™ operation. **Specifications:** • Operating Voltage: 28Vdc • Current Draw: 480mA (850mA startup) • Size: 5.13" x 6.77" x 2.1" • Weight: 1.18 lbs • Certification FAA-PMA: DO160C

P/N 11-08020 ..... ---

SANDIA SAFE 128 AXIAL FAN

The SAFE 128 is an axial fan that is designed to attach directly to an avionics unit's cooling port. Providing a nominal 20 CFM (no load) of cooling air. The SAFE 128 provides an alert output whenever the fan RPM drops below a preset level. **Specifications:** • Voltage: 28 Vdc • Current Draw: 100mA nominal <.250mA Startup • Size: 2.36" x 2.87" x 1.44" • Weight: .25 lb. • Certification: PMA,DO160D • With Fault Detention ..... P/N 11-08019 ..... ---

AV

BATTERIES AND BATTERY CHARGERS FOR HANDHELDS

Battery Model	Description	Part No.	Price
For Icom A24/A6			
BP-210N	7.2V 2000mAh Ultra long life	11-08251	---
BP-211N	Lightweight, Ultra ling life. Li-On charger required.	11-08254	---
EMS-211	Rapid Desktop Cgr for BP-211/N	11-08256	---
For ICOM A23/A5 Handheld aviation radios-			
BP-197H	Alkaline Battery pack	11-01082	---
BP-200XL	9.6v 1450 mAh long Life Ni-MH	11-06351	---
BP-200L	9.6V 850mAh	11-08274	---
CP-12L	12VDC Cig Lighter for A5	11-08249	---
For ICOM A-4 Handheld aviation radios-			
BP-196	9.6v 1500 mAh pk	11-00227	---
EMS-196	Desktop Fast Charger BP-195/196	11-08248	---
For ICOM A-22 &A-3 radios-			
CM-166	NiMH Battery 12.0v 1200 mAh	11-00228	---
EMS-166	Desktop Charger for CM-166	11-08236	---
EC-166	Wall charger for CM-166	11-08234	---
BC-79A	Desktop Charger	11-18557	---
WC-166	Battery Charger	11-08234	---
For ICOM IC-A14 / IC-A14S Handheld aviation radios-			
BP-232N	Operating Time: 15.5 hours	11-08231	---
For ICOM A-20, A-21, & Delcom-			
CM-7x	13.2v 1000 mAh pk	11-00230	---
IC-WC	Wall charger for CM-7 / CM-7X	11-08237	---
IC-8	8 cell AA case 3-1/4" tall	11-08246	---
IC-CP	Car Power/Charge cord	11-00351	---
For ICOM R-1 radios-			
BP-83	7.2v 600 mAh pk	11-00233	---
BP-83xh	7.2v 1500 mAh pk	11-00234	---
BC-79A	Desktop Quick Charger	11-18557	---
Icom Chargers			
CP-11L	DC Power/Charge Cord for ICOM IC-T90A, IC-91AD, IC-A24, IC-A5	11-06348	---
EMS-201	7.2V thru 13.2V Ni-cd & Ni-MH	11-08245	---
EMS-210N	Smart charger for ICOM	11-06350	---
EMS-232	Rapid Desktop Charger for Icom-style Lithium ION Bttys	11-08233	---
EMS-30i	Desktop smart-quick charger.	11-06352	---
For Yaesu Aviator Pilot & Aviator Pro nav/com radios-			
FNB-41xh	9.6v 1000 mAh pk	11-00237	---
FNB-47xh	7.2v 1800 mAh pk	11-00238	---
FNB-41xs	9.6v 1450 mAh pk	11-06354	---
EMS-41/47	Rapid Cgr for FNB-40/41/47	11-08244	---
FNB-80LI	7.2V 1600mAh Yaesu & Vertex	11-08268	---
CBE-41	Battery Eliminator	11-06355	---
CBE-80	Battery Eliminator Cig Lighter	11-08269	---
E-DC-5BA	DC Power Cord, Cig Lighter	11-08241	---
EM-57-83	Super Desktop Charger	11-08239	---
For Bendix/King radios-			
BP-KX99	10.0v 1500 mAh pk	11-00240	---
KX-99XH	10.0V 2700 mAh	11-08257	---
IC-CP	Car Power/Charge cord	11-00351	---
KX-99	Battery case, 8-cell AA (BP-99A)	11-08258	---
For STS handheld radios-			
BP-STS+	7.2v 1400 mAh pk	11-00241	---
WC-STS	Wall Charger	11-00352	---
For Bearcat/Uniden 100/200/250XLT-			
For Bearcat/Uniden 2500XLT, 3000XLT, & 3500XLT-			
BP-2500x	6.0v 1000 mAh pk	11-00322	---
For Bearcat/Uniden Trunk Tracker & Sportcat-			
BC-120	4.8v 1000 mAh pk	11-00323	---
BC-120x	4.8v 1500 mAh pk	11-00324	---
BP-120XE	4.8V 2000 mAh Long Life	11-08272	---
BP-120XX	4.8V 2500 mAh	11-08273	---
BP-120 80	4.8v 800 mAh pk	11-08270	---
BP-120 110	4.8v 1100 mAh pk	11-08271	---
For Santec/Narco radios-			
BP-800	9.6v 600 mAh pk	11-00242	---
BP-800sh	9.6v 1000 mAh pk	11-00325	---
Standard C228A/C528A/C628A, etc.			
CNB-152XS	12V 1800mAHr NiMH	11-08261	---
CNB-152XH	12V 1200mAh Long Life	11-08259	---
CSA-181	Quick Desktop Charger	11-08266	---
For Bose Aviation Headset Series 1			
BP-A	14.4v 1250 mAh	11-00243	---
Battery Eliminators			
CBE-152	DC Battery Eliminator for standard-ADI-JRC radios	11-08262	---
CBE-196	Battery Eliminator for ICOM	11-08247	---
CBE-83	12VDC. 5W, Voltage & Current limiting, & noise filter!	11-08238	---

BECKER AR 6201 TRANSCEIVER

AR6201 series of square sized VHF transceivers from Becker are a family of affordable airborne radios optimized by their functionalities, state of the art technology, compact dimensions, and low weight for many different aircraft categories in general aviation, from smaller to larger aircraft.
The radios fit in any 2 1/4 inch cut out for easy installation and the different models are equipped with sunlight readable LC displays and high performance transmitters with 6 or 10 watts power output, continous power supply from 10.25 to 33 V DC, 8.33 kHz / 25 kHz channel spacing, sensitive receiver, VOX intercom and many other features. • 8.33 or 25 kHz • Supply voltage 9-33 V DC • 6 W or 10 W transmit power • VOX / INTERCOM • Scan (SCN) mode active/preset frequency • Tandem Operation. **Model No.** AR6201-(022) • **Channel Spacing**: VHF transceiver 6W, 8.33/25kHz spacing, blue white backlight LC - display Article - No. 0636.399 - 910 .....P/N 11-08550 ..... ---
AR6201 COM Harness 3.7m .....P/N 11-18178 ..... ---

BECKER GK 615 PORTABLE VHF STATION

The carrying case contains the battery, speaker, antenna socket, the 5 way DIN socket for the micro- phone or microphone speaker and the voltage converter. A microphone, a headset or a helmet (ultra- light) can be connected to the 5-way DIN socket. The built-in battery is a maintenance-free recharge- able 12 V / 2 Ah dry lead acid battery. The transmitter power is approximately 5 to 7 W. Charging voltage can be varied between 10 V and 32 V. Charging time approx. 8 hours. The nominal operating time for the portable VHF station is approximately 6 hours at a keying ratio of 1:10 normal ra- dio traffic) and transmitter output power of 5 W. Features: • Frequency Range: 118.000 MHz to 136.990 MHz • Channel Spacing: 8.33 or 25 kHz • Channel Selection: 8.33 or 25 kHz (selectable) • RF-Output Power: > 6 W (carrier power) • Receiver Sensitivity: > 12 dB sinad for 2 uV.

Model No.	Watts	Description	Part No.	Price
0940.472 923	5	GK 615-5 Portable VHF Station	11-12319	---
0940.432 923	10	GK 615-10 Portable VHF Station	11-12320	---

BECKER AR6203 VHF / AM TRANSCEIVER

The AR6203 VHF-AM transceiver is smaller and lighter than its forerunner due to implementation of state-of-art DSP (Digital Signal Processing) technology it is designed in a 160mm format and is equipped with a highly efficient AM transmitter, a very sensitive receiver and a full graphic LC-display that allows easy reading under all light conditions, including full sun light readibility. Push button and display illumination can be dimmed.

Description	Part No.	Price
AR6201-022: 8.33/25kHz Switchable, 6W	11-14411	---
AR6203-012: 8.33/25kHz Switchable, 10W	11-14415	---

BECKER GT6203 VHF / AM GROUND TRANSCEIVER

Designed for operations at airfields and airports in a very demanding environment, the GT6203 offers latest technology and comfortable operation on all frequency channels in the aeronautical frequency range, adjustable in 25 kHz steps as well as in 8,33 kHz steps. The user friendly operator menu and the extensive setup possibilities allow a very personal setup for the user. The large, clear and dazzle-free LC display shows the active frequency and either the standby frequency or memory channel.
With an output power of 6W or 10W, the transmitter is strong enough for medium range communications, ensuring a low cost of ownership for the customer.
Derived from its airborne counterpart AR6203, the GT6203 is the robust, reliable and flexible solution for your ground operations.
6 Watt .....P/N 11-19086 ..... ---
10 Watt .....P/N 11-19087 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TRIG TY91/TY92 DUAL CONTROL TRANSCEIVERS

The TY91/TY92 is an innovative two-part radio with a remote mounted radio and a panel mounted controller. A crisp clear display and simple user interface. The 'Dual Watch' feature allows the monitoring of two frequencies at the same time. There are 9 pre-set channel memories which are all easily selectable. The radio can integrate with popular GPS units; this allows the automatic display of en-route radio frequencies (uses industry standard SL40 protocol). Also has a built-in two place intercom with an aux input, saving further cost and weight. • EASA ETSO and FAA TSO certification • Two controller option for tandem cockpits • Unbeatable value and quality – designed and manufactured in the U.K. • Two year worldwide warranty.

TY91 ..... P/N 11-13343 ..... ---
TY92 ..... P/N 11-11344 ..... --- TY91 Remote Unit ..... P/N 11-16849 ..... ---
TY92 Remote Unit ..... P/N 11-16850 ..... ---

TRIG TY97 SLIMLINE VHF

Trig's TY97 aviation radio sets a new standard in high power dual 25 kHz and 8.33 kHz radio design. Combining great quality and performance each radio is housed within a superbly engineered unit, slim-line and light. At only 33mm high (1.3") the radio saves valuable stack space, but retains innovative and practical features. The TY97 is a 16 Watt certified radio, designed for high performance aircraft with a 28 volt power supply. With enhanced performance the TY97 ensures successful reception and transmission over long distance or from high altitudes.

TY97 ..... P/N 11-14888 ..... ---
TY97A 25 khz ..... P/N 11-15377 ..... ---
Installation Kit ..... P/N 11-15378 ..... ---

TRIG TY91 VHF RADIO SYSTEM

The majority of GA users including light sport, ultra-light, glider and balloon pilots will fit the Trig TY91 radio, this lower powered 6 watt model is ideal for the majority of applications.

Features: • Can be set at 25 kHz and 8.33 kHz • Receiver - Class C, Class E / Transmitter - Class 4, Class 6 • 6 Watt power output • Compact and light weight • Take up minimal space and weight • Dual watch and two place intercom • Operation is simple, rapid frequency selection • Nine programmable memories • Can be battery operated • Full certified • Compliments Trig's TT21 and TT22 Mode S Transponders • Flexible installation options due to 2 piece design • Can be mounted in a standard 2 1/4" hole or even smaller compact mount • Once fitted, the depth of the radio control head is less than 1 1/2" deep • Crisp display, visible in all lighting conditions • TY91 is a lower powered model, ideal for light sport, ultra light, glider and balloon pilots and majority of GA users.

P/N 11-10721 ..... ---

TRIG TY96 SLIMLINE VHF RADIO

The TY96 aviation radio is designed to provide fast switching between 8.33 kHz and 25 kHz. Its slimline and lightweight design—at only 33mm in height—saves valuable stack space while retaining innovative and practical features. The TY96 is a certified 10 watt radio designed for general aviation and light sport applications and is ideally suited to the needs of experienced and novice pilots alike.

TY96 ..... P/N 11-14457 ..... ---
TY96A 25 khz ..... P/N 11-15376 ..... ---
TY96/TY97 Installation Kit ..... P/N 11-15378 ..... ---

TRIG TT22 MODE S TRANSPONDER

Trig makes the world's smallest and lightest certified GA transponders. The TT22 Trig compact transponder can fit into the tightest panel space. This allows general aviation, light sport and glider pilots to fit other instrumentation or displays that otherwise might not have been possible. The TT22 is a class 1 transponder suitable for use in higher performance aircraft flying above 15,000 feet and / or above 175 knots. Compact size - takes minimal panel space, fits in a standard instrument hole. Integrated altitude encoder. Certified for IFR / VFR flight. Certified class 1 transponder 250 watts nominal output. Low weight – 440g (0.8 lbs). Low power consumption. 1090ES ADS-B Out capable. EASA ETSO and FAA TSO Certification – includes TSO C166b the latest ADS-B standard. Unbeatable value and quality - designed and manufactured in the U.K. 2 year worldwide warranty.

Transponder ..... P/N 11-08322 ..... ---
Transponder and 4 ft. Harness ..... P/N 11-12078 ..... ---
Transponder and Custom Harness ..... P/N 11-12079 ..... ---
TT22 & TN70 ABS-B Out Combo ..... P/N 11-14872 ..... ---
TT22 & TN70 ABS-B Out Combo w/4ft Harness .. P/N 11-14874 ..... ---
TT22 Remote Unit ..... P/N 11-16848 ..... ---

TRIG TT21 MODE S TRANSPONDER

Trig makes the world's smallest and lightest Mode S certified GA transponders. The TT21 Trig compact transponder can fit into the tightest panel space. This allows general aviation, light sport and glider pilots to fit other instrumentation or displays that otherwise might not have been possible. The TT21 is a class 2 transponder and our most popular compact transponder model. Compact size - takes minimal panel space, fits in a standard instrument hole. Integrated altitude encoder. Certified for IFR / VFR flight. Certified class 2 transponder 130 watts nominal output. Low weight – 440g (0.8 lbs). **Features**: • Low Weight • Minimal Panel Space • Low Power Consumption • 130 Watts Nominal Output • Integrated Altitude Encoder • Simple Installation • Easy to Use Rotary Knobs • Support for ADS-B Out.

TT21 Mode S Transponder Complete Kit .... P/N 11-07999 ..... ---
Install Kit ..... P/N 11-09755 ..... ---
Mounting Tray ..... P/N 11-09758 ..... ---
RAM Cradle UNI Thick Tablets ..... P/N 11-09768 ..... ---
TC20 Control ..... P/N 11-09762 ..... ---
TT21 Remote Unit ..... P/N 11-16847 ..... ---

TRIG TT31 MODE S TRANSPONDER

Trig's TT31 transponder is the perfect retro-fit for the popular Bendix King KT76A and KT78A transponders. The TT31 is a certified Class 1 transponder which will 'plug and play' straight into the existing Bendix King tray. This significantly reduces both installation time and cost. It provides pilots with class leading Mode S technology that is also 1090ES ADS-B Out capable too (ADS-B functionality requires a Trig tray). Retrofit – 'plug and play' installation for KT76A and KT78A transponders. Certified Mode S and 1090ES ADS-B Out capable. Certified for IFR / VFR flight. Lowest power consumption in class. 240 watts nominal output. Great functionality and performance. **Features**: • European Mode S • Low Power Consumption • No Cavity Tube • 240 Watts Nominal Output • Plug and Play Installation • Backlit LCD Display • Easy to Use Rotary Knobs • Timer/Stopwatch Function • Altitude Monitor • Certified 1090ES ADS-B out

Transponder ..... P/N 11-07997 ..... ---
Transponder Replacement KT-76X ..... P/N 11-07998 ..... ---
Installation Kit ..... P/N 11-09754 ..... ---

TRIG TN70A ADS-B OUT SYSTEM

Trig produces smart, affordable and future proof avionics. If you're an aircraft owner looking for a fully compliant ADS-B Out solution, (usually in mandated airspace) then the TN70/TN70A is the ideal partner for a Trig transponder. Both GPS Position Sources are simple to install and provide a great way to add a certified FAA TSO-C145 WAAS GPS receiver to complete your ADS-B Out installation. The TA70 certified WAAS antenna is designed to compliment the TN70A. The TN70A comes with the TA70 antenna as a bundled kit, optimised for the best results. Trig are leaders in ADS-B technology (Automatic Dependant Surveillance Broadcast) we were the first company in the world to meet FAA TSO-C166b, the latest standard for ADS-B transponders. Every Trig transponder is Mode S, but also ADS-B capable. Once installed ADS-B equipment transmits your aircraft's precise location directly to other ADS-B equipped aircraft, improving your electronic visibility and safety ..... P/N 11-19363 ..... ---

TRIG TMA44 STANDARD AUDIO PANEL

The TMA44 suits aircraft owners looking for a great value panel that covers general aviation requirements. This panel supports 2-4 seats with independent control of crew and passenger audio. The TMA44 enables simple control of all your navigation, communication and entertainment choices – benefiting from Trig's 'Better by Design' philosophy. The result, a logical and high quality interface that's easier to use. The TMA44 has features pilots need to operate in both IFR and VFR flight, whilst providing mono entertainment options too. ..... P/N 11-16007 ..... ---

TRIG TMA45 STANDARD AUDIO PANEL

The TMA45 is our fully featured panel, perfect for aircraft owners who don't want to compromise. If you are looking for great quality audio, stereo music and mobile phone support via Bluetooth then this panel provides it all. The control of your navigation, communication and entertainment will be simplified as the TMA45 benefits from Trig's 'Better by Design' philosophy. The result – a logical and high quality interface that's easier to use, with features pilots and passengers will really appreciate ..... P/N 11-16011 ..... ---

AV

TRIG TX56 / TX56A COMPLETE NAV/COM FAA TSO

Trig's TX56 Nav/Com units provide the ideal platform to update legacy avionics or equip your new aircraft. Slimline and highly efficient both Nav/Com models are housed within a superbly engineered case. At only 33mm high each unit saves valuable space yet contains an impressive selection of practical features for any pilot.
The TX56 is available with 8.33 kHz channel spacing or conventional 25 kHz spacing, with 10 Watt transmit power. The TX56A and TX57A are 760 channel radio versions (non 8.33 kHz for use outside Eåurope).

Features:
- Slimline – only 33mm high
- Bright, clear display / simple user interface
- Unique 'Push Step' for faster tuning
- Dual Watch – monitor two com or two nav frequencies at the same time
- ETSO and TSO approval (pending)
- Stereo music / two place intercom
- 'Say Again' feature – allows playback of last transmission
- USB port on facia – upload over 200 com and nav frequency database (CSV file)

TX56 (8.33 kHz channel spacing) .....P/N 11-16837 ..... ---
TX56A (conventional 25 kHz spacing) .....P/N 11-16838 ..... ---

TRIG TN72 GPS RECEIVER

Flying in busy skies, or in remote areas means that many pilots want to exploit the visibility and safety that ADS-B provides. ADS-B In traffic receivers, used in general aviation today, allow a pilot to view ADS-B Out equipped aircraft on a cockpit display. The TN72 meets the position requirements of FAR 91.227 and can be used by Light Sport and Experimental aircraft in the U.S. to meet the 2020 ADS-B mandate. The TN72 is a highly affordable solution when used in combination with a Trig transponder. A TN72 will be visible across all ADS-B In traffic platforms. By installing a TN72 with your Trig transponder you will have a certified collision avoidance safety benefit – that's easy to install and proven to work with Trig transponders.

P/N 11-14845 ..... ---

TRIG TA70 GPS ANTENNA

The TA70 can be paired with either the TN70 or TN72 GPS receivers. Each antenna comes with a simple installation guide and fixing kit. The antenna is light, easy to install and comes with a superior gasket feature – this provides coverage of existing antenna holes, giving a secure and weather tight seal. The TA70 antenna is included as standard in a TN70 GPS kit. This simplifies compliance as both the GPS and antenna meet the FAA 2020 mandate for ADS-B. For certified aircraft owners in North America, Trig offers a free FAA STC for the TA70 – this makes it straight forward to use in numerous popular airplane types.....P/N 11-15241 ..... ---

AV

VAL AVIONICS COM 2KR REMOTE VHF TRANSCEIVER

The innovative COM 2KR from VAL Avionics is the first radio to offer complete user interface through the electronic flight instrument system (EFIS) display. This provides full control of transmit and receive frequencies as well as volume and squelch from the EFIS, allowing the COM radio to be removed from the instrument panel.
The COM 2KR is the next step in general aviation communications. As with all Val Avionics products, the COM 2KR is crafted from a solid brick of aluminum for maximum durability and performance for years to come. Supporting both 14- and 28- volt systems, the COM 2KR is outfitted for flexible installation in nearly all light-sport, experimental and type-certificated aircraft. P/N 11-11457 .....

VAL AVIONICS NAV 2KR: REMOTE NAVIGATION RECEIVER

The innovative NAV 2KR from VAL Avionics is the first NAV receiver to offer complete user interface through the electronic flight instrument system (EFIS) display. This provides full control of receive frequencies as well as volume and OBS from the EFIS, allowing the NAV receiver to be removed from the instrument panel.
As this unit has no manual controls, please see our Compatibility Chart below to verify that your EFIS will work with this unit. P/N 11-11458 ..... ---

TRIG TX57 / TX57A NAV/COM

Trig's TX57 Nav/Com units provide the ideal platform to update legacy avionics or equip your new aircraft. Slimline and highly efficient both Nav/Com models are housed within a superbly engineered case. At only 33mm high each unit saves valuable space yet contains an impressive selection of practical features for any pilot.
The TX57 is available with 8.33 kHz channel spacing or conventional 25 kHz spacing, with 16 Watt transmit power.

Features:
- Slimline – only 33mm high
- Bright, clear display / simple user interface
- Unique 'Push Step' for faster tuning
- Dual Watch – monitor two com or two nav frequencies at the same time
- ETSO and TSO approval (pending)
- Stereo music / two place intercom
- 'Say Again' feature – allows playback of last transmission
- USB port on facia – upload over 200 com and nav frequency database (CSV file)

TX57 (8.33 kHz channel spacing) .....P/N 11-16840 ..... ---
TX57A (conventional 25 kHz spacing) .....P/N 11-16842 ..... ---

TRIG TC90 RADIO CONTROL HEAD

This innovative use of a control head and separate radio hardware unit (sold separately) provides more installation options, especially when space is at a premium. The control head can be conveniently mounted in a full 57mm (2 ¼") round hole or even smaller compact mount. Fitting is straightforward, and once installed the depth of the radio control head is only 74mm (3"). In practice this means that the Trig compact control head can be located in an aircraft instrument panel where a 'single box' radio will simply not fit. The compact radio is the perfect communications partner to our compact transponder Mode S (1090 ES ADS-B Out transponders). .....P/N 11-16851 ..... ---
Installation Kit .....P/N 11-16857 ..... ---

TRIG TI106 CDI COMPLETE FAA-TSO

Trig's TI106 is a 3″ Course Deviation Indicator, ideally matched for the TX56 and TX57. Using the latest generation of indicator technology, solid state actuators provide smooth and dependable navigational indications. Use of LED technology for both flags and backlighting provides a superior display compared to older legacy indicators. The TI106 will support most existing Nav/Com equipment, making it a suitable replacement CDI across general aviation. Features: FAA TSO-C34e certified CDI • Solid state technology • Superior LED lighting • Optimized for use with Trig Nav/Comm units • Lightweight and simple to install • Ideal as a retro-fit CDI option • Certification: ETSO C34e, C36e, 2C40c, TSO-C34e, C36e, C40c.....P/N 11-16843 ..... ---

VAL AVIONICS NAV 2000 VHF RECEIVER

The new VAL Avionics NAV 2000 is the perfect complement to the COM 2000. Created from the same durable design, the NAV 2000 is built to interface with most NAV indicators, past and present. Together, NAV 2000 and COM 2000 are the perfect replacement for an aging KX-170B or Cessna NAV/COM. The NAV 2000 is the thinnest panel-mounted NAV radio available on the market. The NAV 2000 is an effective and easy-to-operate unit that exemplifies the principles of simplicity, durability and innovation that are central to all VAL Avionics products. With features and capabilities that are comparable with more expensive radios and a compact, hard-working design, the NAV 2000 is perfectly suited for light-sport and experimental aircraft. The NAV 2000 was designed for EFIS panels. Therefore, the NAV 2000 uses the Garmin SL30 communication protocol based on NEMA-0183 for maximum compatibility with all current EFIS systems.

P/N 11-10569 ..... ---

VAL AVIONICS AWOS 2000: VHF TRANSMITTER

The AWOS 2000 is a 760-channel communication transmitter designed to provide one-way communication within the frequency range of 118.000 MHz to 136.975 MHz in 25 kHz increments.
The AWOS 2000 communication transmitter was designed to conform to FAA Advisory Circular 150/5220-16C for use as a ground-based VHF transmitter for Automated Weather Observing Systems (AWOS). P/N 11-11459 .....

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ACK A-30 ALTITUDE ENCODER

Add Mode C capability to your aircraft the most cost-effective way. The ACK encoder is the smallest, lightest, highest quality encoder available today and features the latest solid-state electronics for high reliability. Installation is quick and easy and usually is completed in less than 1 hour. It is compatible with most transponders in use today and reports altitude to 30,750 ft. Includes quick-release mounting tray, 4-ft. color-coded wiring harness with prewired jack, static line and fittings for installation in any aircraft, and installation manual with popular transponder pin-outs. 3yr. warranty. .....P/N 11-01561 ..... ---

ACK A30.9 (MOD 9) ENCODER

The ACK A30.9 (Mod 9) encoder is ideal for use with most GPS and TAWS systems, and works well with most of today's mode S transponders. Feature Gray code in 100ft. increments and RS-232 in 10 or 100 feet increments. Furnished with a 4 ft. harness, pre-wired jack, quick release mounting tray, fittings, static line, and installation manual. Reports altitude to 42,000 ft. One Year Warranty.....P/N 11-02375 ..... ---

TRANS-CAL ALTITUDE ENCODER MODEL SSD120-30N

Reliable service for over 10 years. • Pin for pin replacement for most other manufacturers encoders. • Comes with Mating Connectors with Cable Clamps, and Mounting Bracket. • Optional: Available with two independent RS232 serial data ports selectable message protocols for most popular avionics interfaces. Programmable for 100' and 10' resolutions. See Part No. 11-06983 • Optional: Available with adapter plates that will allow the installer to mount the unit in another manufacturers mounting tray. 30,000 ft. Range .....P/N 11-06489 ..... ---
35,000 ft. Range .....P/N 11-09608 ..... ---
SSD120-30N-MOD1 .....P/N 11-09916 ..... ---

TRANS-CAL ALTITUDE ENCODER MODEL SSD120-30N-RS232

Reliable service for over 10 years. Pin for pin replacement for most other manufacturers encoders. Optional: Available with adapter plates that will allow the installer to mount the unit in another manufacturers mounting tray. • Will operate on either 14 or 28 VCD at 0.270 Amps. There are two versions of this model: • Standard Version SSD120-30N-RS232 • Version SSD120-30N-RS232-MOD1 for NARCO AT-5A, 6A, 50, 50A Transponders.
30,000 ft. Range .....P/N 11-06983 ..... ---
35,000 ft. Range .....P/N 11-09609 ..... ---
SSD120-3N-RS232-MOD1.....P/N 11-09917 ..... ---

TRANS-CAL ALTITUDE ENCODER MODEL SSD120-35C-RS232

The smallest, lightest, and lowest power consumption Altitude Digitizer on the market. The SSD120-35C-RS232 is a solid-state Altitude Encoder that is designed to provide a rugged and reliable altitude digitizer for applications where size, weight and economy are critical. Incorporating one ICAO gray code port, as well as two RS232 serial altitude data outputs, this encoder is a simple and robust addition to any avionics installation requiring accurate pressure altitude information for multiple aircraft systems. .....P/N 11-15366 ..... ---

TRANS-CAL ENCODER PROGRAMMER

The ECP-100 allows the avionics technician to assign serial port protocols, 100' or 10' resolution and/or allow programming of the calibration curve on Trans-Cal Altitude Encoders using the RS232 port. Trans-Cal Altitude Encoders with RS232 ports are a popular pressure altitude solution; providing serial altitude data in the aircraft for a variety of systems. The ECP-100 provides a quick, rugged and reliable method to set serial port protocol assignments (message and baud rate) and calibrate Trans-Cal altitude encoders without using a PC.....P/N 11-13201 .....

TRANS-CAL NANO ADAPTER PLATES

Trans-Cal Industries has developed Adapter Plates that allow the technician to quickly replace existing or legacy encoder installations in favor of the new Trans-Cal SSD120-(XX)N series of altitude digitizer/encoders. These plates simplify the installation task by providing an adapter designed for the Trans-Cal unit, while utilizing the exisiting mounting tray. All adapter plates include stainless steel mounting hardware and are approved for installation under TSO-C88a and ETSO-C88a

Adapter Plate	Part No.	Price
ACK	11-09603	---
Ameri-King	11-09605	---
Sandia	11-09602	---
Shadin	11-09604	---
SSD120 and Narco	11-09601	---
Sandia 103035	11-13198	---
Sandia 103036	11-09602	---

SANDIA SAE5-35 ALTITUDE ENCODER

The SAE5-35 altitude encoder from Sandia is small (1" high), lightweight (12 oz.) and utilizes Gillham Grey code in 100' resolution for optimum performance and accuracy. Features two RS232 outputs in 10 foot resolution, simplifying installations. All connectors are on the same side for easy mounting, and digital calibration eliminates analog drift. Altitude In-Flight Monitoring (AIM) mode alerts the pilot when he strays off altitude. Requires virtually no warm up time and uses very little power. Fully TSO'd and backed by factory 3 year warranty. Power: 11-33VDC.
P/N 11-00665 ..... ---

SANDIA SAC 7-35 AIRDATA COMPUTER

The SAC 7-35 is FAA TSO Approved as an altitude encoder. It provides standard Gillham Grey code for legacy transponders and RS-232 data for the new generations of transponders. Altitude Alerting. The SAC 7-35 has SANDIA Aerospace's exclusive AIM (Altitude Inflight Monitoring) that alerts the pilot anytime he deviates more than 100 feet from his selected altitude. Fuel Flow. The addition of a fuel flow transducer (two for a twin) and your SAC 7-35 provides all the fuel flow data your navigation systems needs to monitor your fuel situation. Airdata Computer. The SAC 7-35 is a full up TSO'd Airdata Computer offering all of the functions and capabilities of systems costing thousands of dollars more. The SAC 7-35 has multiple interface formats that allow it to provide data to a wide variety of avionics systems. Designed and manufactured to most exacting standards, you can depend on SANDIA Aerospace products to provide years of reliable service. And every product is backed by a three year warranty and personal service support.
P/N 11-07938 ..... ---

SANDIA SAC 7-35-01 AIRDATA COMPUTER

The SANDIA aerospace SAC 7-35-01 is an airdata computer and data translator that interfaces the Garmin 400W/500W navigators Downlinked Aircraft Parameters in ARINC 429/743 format to the Collins TDR 94D for ADS-B out capabilities. Note: Interfaces with Garmin 400W/500W navigators. Functions: • Altitude Encoder. The SAC 7-35 is FAA TSO Approved as an altitude encoder. It provides standard Gillham Grey code for legacy transponders and RS-232 data for the new generations of transponders. • Altitude Alerting. The SAC 7-35 has SANDIA Aerospace's exclusive AIM (Altitude Inflight Monitoring) that alerts the pilot anytime he deviates more than 100 feet from his selected altitude. • Fuel Flow. The addition of a fuel flow transducer (two for a twin) and your SAC 7-35 provides all the fuel flow data your navigation systems needs to monitor your fuel situation. • Airdata Computer. The SAC 7-35 is a full up TSO'd Airdata Computer offering all of the functions and capabilities of systems costing thousands of dollars more. The SAC 7-35 has multiple interface formats that allow it to provide data to a wide variety of avionics systems. .....P/N 11-09321 ..... ---

TRANS-CAL ALTITUDE DATA SIMULATOR

The Model ADS-100 is an all solid-state device that simulates the output of altitude encoders/digitizers in both parallel and serial (RS232) data formats. Designed to substitute for an altitude encoder when testing and troubleshooting an aircraft's altitude reporting system, the ADS-100 provides two RS-232 compliant outputs in addition to the ICAO pressure altitude code. The Model ADS-100 provides a simple and robust means of simulating serial and parallel altitude data inputs for multiple aircraft systems. The bright two-line vacuum fluorescent display gives the test technician a view of the current altitude code transmission on both the serial and parallel ports. LED indicators display the status of the encoder strobe, power and serial data protocol pins, as well as the binary ICAO altitude code. Audible alerts are generated at 1000' or 100' altitude code transition points. Front panel switches control the device power, altitude hold, ascent/descent rate, audible signals and serial data protocol. .....P/N 11-13199 ..... ---

MICROAIR EC2002 ALTITUDE ENCODER

EC2002 will accurately report the aircraft's altitude from -1000 to +35,000ft. The altitude output will be via the 10 line Gillham "Gray" code. Accuracy has been measured as a 40 foot drift over 35,000 feet. Lowest power requirements of any altitude encoder today. Typical current consumption of 10 – 90mA, this makes it the logical choice for all battery only operators. Small size and light weight make installation very simple. The chassis is flanged, and is predrilled with mounting holes for easy attachment. The connections consist of the well know DB-15 electrical connector with pin assignments identical to many existing encoders, and a 1/8" NPT fitting which is an industry standard for aircraft equipment. These connections make it compatible with all ATC transponders currently available.
P/N 11-05105 ..... ---

AV

MICROAIR AVIONICS

MICROAIR 760 COM REVISION Q

Designed and manufactured in Australia, the Micro Air 760 VHF transceiver is ideal for aircraft requiring compact size and low power consumption. It has many of the features not found in radios costing much more and includes features not available in any other units. It's compatible with a variety of speaker & microphone combinations including all general aviation microphones. Standard model mounts in a standard 2-1/4" panel hole and weighs only 19.4 oz. It has been proven in high noise environments such as Rotax 2-stroke engines and is excellent for gliders, Ultralights, a general aviation aircraft. A unique LED multifunction annunciator located at the top right of the unit provides several alerts, and an external memory toggle switch allows remote control of the memory frequencies. Transmit output: 4W, Size: 2.56" x 2.44" x 7.779"d, 14V.

Standard 2-1/4" model.....P/N 11-18700 ..... ---

MICROAIR T2000ADSB TRANSPONDER

Ideal for light sport and experimental aircraft operators looking for enhanced visibility and to meet airspace mandates, the new Microair ADSB Transponder integrates Mode AC, ADSB out, GPS position source and altitude encoder in one compact unit. Designed for easy installation, the ADSB Transponder improves situational awareness by making you visible to other aircraft.

It is fully compliant to Civil Aviation Safety Authority (CASA), Civil Aviation Authority (CAA) of New Zealand and Federal Aviation Administration (FAA) requirements for ADSB Out .....P/N 11-19526 ..... ---

MICROAIR T2000ADSB-IO TRANSPONDER

Ideal for light sport and experimental aircraft operators looking for enhanced visibility and to meet airspace mandates, the new Microair ADSB-IO Transponder receives other Aircrafts ADSB Out transmissions allowing you to see the traffic around you on your favourite EFB App. It also integrates Mode AC, ADSB out, GPS position source and altitude encoder in one compact unit. Designed for easy installation, the ADSB-IO Transponder improves situational awareness by making you visible to other aircraft and also provides a stream of traffic data to your Android Tablet or IPAD and your favourite App that supports GDL90 traffic. It is fully compliant to Civil Aviation Safety Authority (CASA) and Civil Aviation Authority (CAA) of New Zealand for ADSB Out.....P/N 11-20324 ..... ---

MICROAIR T3000 PITOT STATIC PROBE NON-NORSEE

The Fully Integrated Probe, containing an Air Data Computer and an Attitude and Heading Reference System, replaces any AN5812 Pitot Probe. The Digital Pitot Static Probe provides: Airspeed, Altitude, Vertical Speed, Angle of Attack, Outside Air Temperature, Attitude, Heading and Clock - all visible on one or more T3000 skySuite instrument displays.

With the T3000PSP, you're not just upgrading a probe – you're redefining your air data system. Enjoy higher performance, better safety, and easier maintenance with this cutting-edge solution from Microair Avionics.

P/N 11-20744 ..... ---

MICROAIR T2000UAV-L TRANSPONDERS

A special version of the T2000 Transponder, designed for operation in unmanned aircraft. This product is NOT TSO'd due to the OEM nature of the management software. It can help you to open ATC controlled airspace for your product, by making the UAV visible to ATC controllers. The UAV operator will be able to enter an ID code given by ATC, into the T2000UAV-L, to make the UAV uniquely identifiable. Transponder capability will make your UAV visible to TCAS operators, which affords great safety for commercial aircraft operators. The transponder will reply to all mode A and mode C interrogations, and will accept barometric altitude Gray scale (Gillham Code) data. It was designed for very low power consumption, which permits prolonged operation on battery. Can however still pulse out a 200W signal. Light at only 454g (16oz), and easy to istall. Available with either a standard BNC connector or standard TNC connector loaded on the rear face of the chassis.

T2000UAV-L TNC Connector.....P/N 11-07934 ..... ---
T2000UAV-L BNC Connector.....P/N 11-07935 ..... ---

MICROAIR ANTENNA AIRKIT FOR M760

Microair Avionics recommends the Airkit GI ground plane independent, for use with the M760 radio, in situations where the aircraft structure does not offer a suitable ground plane. The Airkit is a completely ground independent antenna which is designed to be used in a wide variety of applications, such as kit-build and composite aircraft. This products is not approved as a primary com antenna. Termination is provided to the industry standard BNC female and supplied with 10m of RG58CU coax cable. The Airkit antenna is one of the easiest antenna to install and has a maximum bandwidth of over 3MHz under 1.6 to 1 SWR.

10 Ft. Cable.....P/N 10-06022 ..... ---

MICROAIR T3000 REMOTE INSTRUMENT DISPLAY

Microair T3000 Remote Additional Instrument Display for T3000PSPN - With Harness. T3000 Remote Instrument Display - 2.1" display with a timeless design

Your installation could consist of one or more 2.1" displays. These need to be installed in a position that is easily visible to the pilot without obstructing the view or use of any required equipment. The displays use an industry standard 2-1/4" cut out.

Note: many panels already have 2-1/4" cutouts for existing non required equipment such as a clock which can be used for the display(s).

P/N 11-20742 ..... ---

MICROAIR T3000 PITOT STATIC PROBE NORSEE APPROVED

The Fully Integrated Probe, containing an Air Data Computer and an Attitude and Heading Reference System, replaces any AN5812 Pitot Probe. The Digital Pitot Static Probe provides: Airspeed, Altitude, Vertical Speed, Angle of Attack, Outside Air Temperature, Attitude, Heading and Clock - all visible on one or more T3000 skySuite instrument displays.

12V Heater - Norsee Approved Including Installation Kit 2.1" Display And Harnessing .....P/N 11-20738 ..... ---
24V Heater - Norsee Approved Including Installation Kit 2.1" Display And Harnessing .....P/N 11-20739 ..... ---
No Heater - Norsee Approved Including Installation Kit 2.1" Display And Harnessing .....P/N 11-20741 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PS ENGINEERING AUDIO PANELS

PMA6000B AUDIO PANEL

PMA6000B Audio Panel w/4-place mono intercom available with or without marker beacon receiver. The PMA6000B holds both FAA TSO as well as EASA ETSO and was designed to be made easier to install because of a single 44-pin Sub-d connector. PS Engineering has revolutionized audio control in general aviation airplanes. At that time, the original PMA6000 took the audio panel from a collection of switches added as an afterthought, to a multi-talented inter-system focal point for cockpit audio.

Description	Part No.	Price
PMA6000B Audio Panel w/4-place mono intercom with marker beacon receiver	11-08074	---
PMA6000B Audio Panel w/4-place mono intercom without marker beacon receiver	11-14363	---
PMA 6000 Audio Panel 2 Place Wire Harness	11-13149	---
PMA 6000 Audio Panel 4 Place Wire Harness	11-13150	---

PS ENGINEERING PMA8000C AUDIO PANEL

The front-mounted, 2.5mm multipurpose jack give pilots unprecedented access to their audio panel. Connect any Bluetooth® enabled phone into the audio panel for unprecedented amount of flexibility, both for phone calls as well as music streaming. It may also be possible to connect two different Bluetooth® devices at the same time. Three different configurations can be selected from the front panel, such as how the music is distributed, the way the intercom functions, and selecting the new Monitor Function.....P/N 11-10773 ..... ---

PMA450B AUDIO PANEL

The PMA450B is the next step in connectivity, with more Bluetooth® capability than any other audio panel available today. When coupled with PS Engineering's innovative approach to audio control, this user friendly PMA450B gives more of what the pilot wants from their audio panel, the central nervous system of their avionics suite. This 3rd generation PMA450 has two completely independent Bluetooth® modules, giving unprecedented connectivity capabilities. The PMA450B has the ability to work like no other panel available. Stream to a digital video camera, hear Foreflight® alerts, make a phone call to ATC for your IFR clearance, you might even listen to your favorite tunes once in a while. PMA450B also adds flightmate®. This integrated audio alert system gives the pilot the ability to hear alerts related to aircraft conditions.

With Marker Beacon.....P/N 11-16294 ..... ---
Without Marker Beacon.....P/N 11-16296 ..... ---

PS ENGINEERING PMA450C AUDIO PANEL

The PMA450C is the next step in connectivity, with more Bluetooth® capability than any other audio panel available today. When coupled with PS Engineering's innovative approach to audio control, this user friendly PMA450B gives more of what the pilot wants from their audio panel, the central nervous system of their avionics suite. This 3rd generation PMA450 has two completely independent Bluetooth® modules, giving unprecedented connectivity capabilities. The PMA450C has the ability to work like no other panel available. Stream to a digital video camera, hear Foreflight® alerts, make a phone call to ATC for your IFR clearance, you might even listen to your favorite tunes once in a while.

With Marker Beacon.....P/N 11-19185 ..... ---
Without Marker Beacon.....P/N 11-19186 ..... ---

PMA 8000B AUDIO PANEL

Front-mounted, 2.5mm multipurpose jack give pilots unprecedented access to their audio panel, allowing connections to cell phones, portable music devices, or audio announcements directly into the audio panel. 6 user configurations that are front panel selectable. Original Karaoke Mode™ can be activated by pressing the front panel "Mute" button, allowing the music to be placed in the background while interruptions to the music will be eliminated. Pilot can receive and transmit on the selected VHF COM with ATC as well, for seamless integration in the cockpit. (Cellular telephone use in flight is not permitted, but remains a convenient and safe way to contact air-traffic control or a weather briefer while on the ground.) Six different configurations can be selected from the front panel. Internal Recording System (IRS) is now standard equipment. Backward compatible with the PMA 8000. Note: Use of the front panel jack is restricted to advisory information only, from portable systems. Signals required for certified equipment must be interface in accordance with their specific installation manuals. **Specifications:** Height: 1.3 inches, Weight: 6.25 inches, Depth: 7.15 inches, Weight: 1.34 pounds, Power Required: 12 to 24 VDC, Warranty: 3 Years, Unit is TSO'D.

PMA 8000Vertical Mount/Bluetooth .....P/N 11-13659 ..... ---

PMA 7000B/7000H/7000M AUDIO PANEL

Note: Plug & Play slide-in replacement for the PMA7000M-S, the PMA 6000M-S, and the KMA28. Pin-compatible with the KMA 24. Nice for upgrading an existing Bendix/King KMA 24 audio panel. KMA 24 pin compatible. None of the existing wires going to the KMA 24 have to be disturb. Renown 6-place IntelliVox® automatic Voice Operated Relay (VOX) intercom system. Provides 3-com capability with the option to easily convert Com 3 to a full duplex cellular telephone interface. Also has the pioneered "Split Mode". Allows the pilot to be on Com 1 while the copilot is on Com 2. Also expandable to accommodate up to 12 places (10 passengers) with the addition of the 11606 IntelliPax. Has four un-switched and un-muted inputs. • Height: 1.3 inches • Width: 6.25 inches • Depth: 6.8 inches • Weight: 1.5 inches • Power Requirements: 12 to 24 VDC • Warranty: 2 Years • Unit is TSO'D.

PMA 7000 Bluetooth/Marker Beacon.....P/N 11-13663 ..... ---
PMA 7000H Audio Panel .....P/N 11-07001 ..... ---
PMA 7000M Mono Intellivox Marker.....P/N 11-13425 ..... ---
PMA 7000H-CVR .....P/N 11-14369 ..... ---
PMA 7000HBT Heli. Bluetooth.....P/N 11-13713 ..... ---

PAC 24 AUDIO PANEL/INTERCOM

Designed as an upgrade/replacement for the popular KMA24 –71. Many of the enhancements include; a powerful headset audio amplifier, and high-performance IntelliVox® intercom, dual audio capability in a single box, full duplex mode for wireless operations, and expansion capability with stereo IFE input. Can accommodate 5 transceivers. A monaural system, the PAC24 can include a music input. SoftMute™ silences music during radio traffic, but allows music other times. Incorporates a split mode that will allow a single audio panel to separate two pilots on different transceivers. When combined with IntelliPax® expansion system, the dual PAC24 can be a 14-place system. The audio amplifier is capable of providing 120 milliwatts (mW) into general aviation headphones.

Horizontal Mounting .....P/N 11-01293 ..... ---
Vertical Mounting.....P/N 11-05507 ..... ---

PS ENGINEERING ACCESSORIES

Digital Recorder Aural Warning System w/ 4 unswitched inputs
P/N 11-05158 ..... ---

FM Radio Adapter (allows interfacing of non-standard aviation radios)
P/N 11-05159 ..... ---

PAR 200B AUDIO PANEL WITH COM RADIO

The PAR200B is a full-featured audio selector panel with a 4-place stereo IntelliVox® (completely automatic VOX system) intercom and Bluetooth® interconnectivity. The VHF radio is remotely mounted to minimize the amount of panel space required. It also includes a built-in 10 Watt Speaker Amplifier. Another major enhancement is the addition of IntelliAudio®. This true dimensional sound system allows the pilot to pay attention to the radio that is important at any instant in time. This makes it much easier for the pilot to copy the weather while being able to identify when he hears ATC call his tail number. And to add flexibility, PS Engineering has included the highly lauded Bluetooth® technology. The pairing of phones or Bluetooth® enables audio devices is easily achieved for wireless entertainment. Telephone calls can be distributed in three different ways (as determined by the ICS switch). The pilot can make a private phone call, the crew can make a call, or all on board can be in on the conversation. The PAR200B uses the same tray and connector as the GMA240, GMA340, PMA8000 series.....P/N 11-17542 ..... ---

PS ENGINEERING PMA8000G FLIGHTMATE AUDIO PANEL

The PMA8000G marks a major milestone in the company's innovative history. Third generation user interface along with advanced digital processing, makes this a perfect fit for pilots who expect more from their audio panel while not wanting complexity. The PMA8000G is a natural choice for pilots who demand ease of use with a deep set of audio panel capabilities. Flightmate® is the first multi-function digital recorder/audio system available in an audio selector panel. Functions such as creating 4 aural alerts, creating checklists, and an instant aircraft radio playback are all part of this emergency procedures, just about anything that pilot can say, they can store into non-volatile memory, making those checklist chores a bit easier.

Without Marker Beacon.....P/N 11-18882 ..... ---
With Marker Beacon.....P/N 11-14511 ..... ---

MB 10 MARKER BEACON RECEIVER

MB 10-is a 3-light 75 MHz Marker Beacon receiver and indicator. This provides the necessary Marker Beacon lights and audio indications necessary for an Instrument Landing System (ILS) approach. A switch labeled Hi/Lo/TST allows the pilot select high or low sensitivity as well as test and mute modes • Height: .95 inches • Width: 2.80 inches • Depth: 4.85 inches • Warranty: 1 year • Unit is TSO'D

Standard.....P/N 11-05621 ..... ---
Remote Mount.....P/N 11-10014 ..... ---

AV

RADIORAX THE REVOLUTIONARY AVIONICS RACK SYSTEM

Radiorax provides flexibility and ease of installation for panel mount avionics. The radiorax system consists of anodized slotted rails, stainless nuts, structural strength tray screws that are four times stronger than conventional screws used in aviation, and a stainless capture system that holds each nut where it is needed during assembly.

Description	Part No.	Price
Radiorax Kit 1010-8 for Exp. A/C	11-01376	---
RK1010 Single Stack Kit-STC for Exp. A/C	11-01856	---
RK1020 Single Stack STC Kit-STC Exp. A/C	11-01858	---
RK1030 Single Stack STC Kit Cirrus/Lancair	11-01860	---
RK2000 Dual Stack STC Kit	11-01862	---
RK3000 Triple Stack STC Kit	11-01864	---
Single Rail - Special Order	11-01866	---
RK1005 Cessna Kit	11-02308	---
RK1040 Single Stack	11-02309	---
RK2010 Kit -18" dual stack,flange, FAA-PMA, STC'd	11-02608	---
RK2015 Kit - 18" dual stack, flanged outer, FAA-PMA, STC'd	11-02609	---
RK2020 Kit -18" dual stack, reduced outer, FAA-PMA,STC'd	11-02610	---
RK2025 Kit -18" dual stack, reduced outer, FAA-PMA,STC'd	11-02611	---
RK3010 Kit - 18.0" triple stack, flanged outer + Full Dim. Center Rail Tray Mount Kit - FAA-PMA, STC'd	11-02612	---
RK3015 Kit - 18.0" triple stack, flanged outer + reduced dim. Center Rail Tray Mount Kit - FAA-PMA, STC'd	11-02613	---
RK3020 Kit - 18.0" triple stack, flanged outer + Full Dim. Center Rail Tray Mount Kit - FAA-PMA, STC'd	11-02614	---
RK3025 Kit -18.0" triple stack, reduced outer + reduced dim. Center Rail Tray Mount Kit - FAA-PMA, STC'd	11-02615	---
RK4000-12 Kit - Standard Closeout Panel - Chem Film - 12" Kit - FAA-PMA, STC'd	11-02616	---
RK4000 - 12A Kit - Standard Closeout Panel - Black Anodized - 12" Kit - FAA-PMA, STC'd	11-02617	---

AV

QUICKRAX QT-MTK MASTER TOOL KIT

The Quickrax Master Tool Kit combines the three essential Quickrax tools into one convenient tool case. **In The Box:** • (11-20725) QT100 Hardware Starter Kit • (11-20726)QT200 Installation Spacer Kit • (11-20727) QT300 Mount Offsetter Kit

P/N 11-20728 ..... ---

QUICKRAX QT300-K MOUNT OFFSETTER KIT

The QT300 Tool Kit is the easiest and most accurate way to modify trays for attaching to the QP1120 Center Rail used in multiple stack avionics installations. **In the Box:** • (1) QT300 Mount Offsetter • (1) #28 Drill bit • (1) Structural #6-32 screw for countersinking new mount holes

P/N 11-20727 ..... ---

QUICKRAX QT200-K INSTALLATION SPACER KIT

The Quickrax QT200 Installation Spacer Kit for Quickrax 6-32 tray mount rails is the best way to quickly align and clamp the rails to your instrument panel build for alignment drilling the mount holes. **In The Box:** • 2) QT200 Installation Spacer assemblies • 8) NAS1352-06-8P structural 6-32 cap screws for mounting Spacers to Rails • 4) Milled Spacer Washers for surface mount rail (QP1050, etc.) installations • 1) Tool kit case.

P/N 11-20726 ..... ---

QUICKRAX

Quickrax manufactures Avionics Rails, Dzus Adapters, Closeout Panels, Hardware, and Tools to simplify and add value to your next avionics installation/upgrade.Quickrax products are engineered for installation in both new and pre-existing instrument panels. Quickrax has revolutionized avionics installations with patent-pending face mount Avionics Rails that allow complete stack prewire on the bench and installation of the avionics suite as a single module.

QUICKRAX QT100-K HARDWARE STARTER KIT

The Quickrax QT100 Hardware Starter for 6-32 tray nut assemblies is a versatile tool that simplifies tray nut installation, adjustment, and removal. **In The Box:** • (1) QT100 Hardware Starter • (1) #2 reduced shank Phillips bit for starting tray screws • (1) 7/32" Bondhus hex ball driver for starting 6-32 cap screws used for mounting QT200 Installation Spacers, Dzus Adapters, and Closeout Panels.

P/N 11-20725 ..... ---

QUICKRAX QP1120 TRAY MOUNT RAIL - .375 INCH WIDTH DRILL / TAP - DUAL SLOT

.375" width, dual slot offset rail, behind panel mount. Drill and 6-32 roll-tap attach points for installation to instrument panel with structural NAS514P632-4P screws. Rails are easily cut to length for your particular installation requirement. 6-32 Hardware sold separately.

18 inch .....P/N 11-20724 ..... ---
12 inch .....P/N 11-20723 ..... ---

QUICKRAX QP1050 TRAY MOUNT RAIL - .825 INCH WIDTH REMOVABLE FACE MOUNT - SINGLE SLOT

825" width, single slot rail, patented front panel mount allows completed avionics suite to be installed and removed as a single unit. Rails are easily cut to length for your particular installation requirement.

18 inch .....P/N 11-20722 ..... ---
12 inch .....P/N 11-20721 ..... ---

QUICKRAX QP1025 TRAY MOUNT RAIL - .650 INCH FLANGE WIDTH RIVET - SINGLE SLOT

.650" flange width, single slot rail, rivet attach behind panel mount. Rails are easily cut to length for your particular installation requirement. Tray Mount Hardware Pack not included.

18 inch .....P/N 11-20720 ..... ---
12 inch .....P/N 11-20719 ..... ---

QUICKRAX QP1020 TRAY MOUNT RAIL - .375 INCH WIDTH DRILL / TAP - SINGLE SLOT

.375" width, single slot rail, standard behind panel mount. Drill and 6-32 roll-tap attach points for installation to instrument panel with structural NAS514P632-4P screws. Rails are easily cut to length for your particular installation requirement. 6-32 Hardware sold separately.

18 inch .....P/N 11-20718 ..... ---
12 inch .....P/N 11-20717 ..... ---

QUICKRAX QH632-F SEMI-PERMANENT TRAY MOUNT PACK

6-32 tray mount hardware pack - NON-REMOVABLE from along the rail slot. The spring nut can only be installed and removed from each end of the rail slot. Note: This hardware is applicable to all Quickrax avionics rails, including the QP1020, QP1025, QP1050, and QP1120.

8 pack .....P/N 11-20712 ..... ---
12 pack .....P/N 11-20713 ..... ---
24 pack .....P/N 11-20714 ..... ---
32 pack .....P/N 11-20715 ..... ---
40 pack .....P/N 11-20716 ..... ---

QUICKRAX QH632 REMOVABLE TRAY MOUNT PACK

6-32 tray mount hardware pack - REMOVABLE from along the rail slot. The spring nut can be installed and removed at any point along the rail slot. Note: This hardware is applicable to all Quickrax avionics rails, including the QP1020, QP1025, QP1050, and QP1120.

8 pack .....P/N 11-20707 ..... ---
12 pack .....P/N 11-20708 ..... ---
24 pack .....P/N 11-20709 ..... ---
32 pack .....P/N 11-20710 ..... ---
40 pack .....P/N 11-20711 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RAM MOUNTING SYSTEMS

DOUBLE SOCKET MOUNTING SYSTEM

Choose from a selection of holders, socket arms and ball bases to build a custom mount for your specific aircraft. Additional bases may be chosen so that your mount can support multiple devices, or can be transferred to alternate mounting locations.

1 CHOOSE A HOLDER

Form-Fit Cradle for Apple iPhone 12 Pro Max & 13 Pro Max
P/N 11-18864

RAM® X-Grip® Universal Phone Holder with Ball
P/N 11-09777

RAM® X-Grip® Large Phone Holder with Ball
P/N 11-12987 ---

RAM® Quick-Grip™ Universal Phone Holder with Ball
P/N 11-19215

RAM® EZ-Roll'r™ Cradle with Ball for Apple iPad mini 6
P/N 11-19101
---

2 CHOOSE AN ARM

For holders with a ball

Short Arm
P/N 11-03458

Medium Arm
P/N 11-01255

Long Arm
P/N 11-09323

For holders without a ball

Short Arm
P/N 11-19223

Medium Arm
P/N 11-19221

Long Arm
P/N 11-19222
---

2 CHOOSE A BASE

Drill-Down Base
P/N 11-07069

RAM® Yoke Clamp Base with Ball
P/N 11-00484

RAM® Twist-Lock™ Dual Pivot Suction Cup Base with Ball
P/N 11-18174

RAM® Twist-Lock™ Suction Cup Base with Ball
P/N 11-06449

RAM® Large Strap Hose Clamp Base for Beechcraft Bonanza Airplanes
P/N 11-09763

RAM® Glare Shield Clamp Ball Base
P/N 11-09852

RAM® Yoke Clamp Base with Ball for Pilatus PC-12NG
P/N 11-12937

AV

RAM MOUNTING SYSTEMS

IPAD MINI 6 SOLUTIONS

The newest and most exciting iPad yet just got the support it needed. RAM® Mounts carries the necessary holders for the new iPad mini 6, including the form-fitting RAM® EZ-Roll'r™ cradle, the RAM® Tab-Tite™ holder, and the RAM® X-Grip® for cased iPad mini 6's.

HOLDERS

RAM® EZ-Roll'r™ Cradle for Apple iPad mini 6
P/N 11-19101

RAM® Tab-Tite™ Spring Loaded Holder for 7" Tablets
P/N 11-09766

RAM® Tab-Tite™ Universal Spring Loaded Holder for 8" Tablets w/ Case
P/N 11-12269

RAM® X-Grip® Universal Holder for 7"-8" Tablets with Ball
P/N 11-11248
---

* Can Charge Apple Pencil While in Holder

YOKE MOUNTS

RAM® EZ-Roll'r™ Cradle with Yoke Clamp Mount
P/N 11-19217

RAM® Tab-Tite™ Yoke Clamp Mount
P/N 11-19225

RAM® Tab-Tite™ Yoke Clamp Mount for Heavy Duty Cases
P/N 11-19226

SUCTION CUP MOUNTS

RAM® Twist-Lock™ Suction Cup with EZ-Roll'r™
P/N 11-19224

RAM® Twist-Lock™ Suction Cup with Tab-Tite™ for Heavy Duty Cases
P/N 11-19220

KEYBOARD MOUNTS

RAM® Tab-Tite™ with Kneeboard Mount
P/N 11-19219

RAM® Tab-Tite™ with Kneeboard Mount for Heavy Duty Cases
P/N 11-19218

TABLET HOLDERS RAM® EZ-ROLL'R™

These form-fit holders are designed to fit your device perfectly for a low-profile mounting solution. The patented roller design allows for easy docking and removal of the tablet without fumbling around. Modified versions of these holders include combo and key-locking features for theft deterrence as well as a holder for the Apple Pencil.

RAM® EZ-Roll'r™ Cradle for Apple iPad Pro 11" (1st - 3rd Gen), Air 4 and 5
P/N 11-17593

RAM® EZ-Roll'r™ Cradle for Apple iPad 7th, 8th & 9th Gen
P/N 11-18368

RAM® EZ-Roll'r™ Cradle for Apple iPad Pro 12.9" 3rd Gen
P/N 11-18173

RAM® EZ-Roll'r™ Cradle for Apple iPad Air 3 & iPad Pro 10.5
P/N 11-15889

RAM® EZ-Roll'r™ RAM® EZ-Roll'r™ Cradle for Apple iPad mini 4 & 5
P/N 11-14148

RAM® EZ-Roll'r™ RAM® EZ-Roll'r™ Cradle for Apple iPad Pro 12.9 (1st & 2nd Gen)
P/N 11-14777

RAM® EZ-Roll'r™ RAM® EZ-Roll'r™ Cradle for Apple iPad mini 4 & 5 w/ Ball
P/N 11-18171

RAM® EZ-Roll'r™ RAM® EZ-Roll'r™ Cradle for Apple iPad Pro 12.9 (3rd Gen)
P/N 11-18173

RAM® EZ-Roll'r™ RAM® EZ-Roll'r™ Cradle for Apple iPad Mini 6 w/ Ball
P/N 11-20674

RAM® X-GRIP®

The RAM® X-Grip® for tablets is the most durable universal holder on the market. The spring-loaded arms expand and contract to provide a perfect fit for your tablet with or without a case. Available for tablets of all sizes, the RAM® X-Grip® holder secures your device from all angles while keeping it completely functional and accessible. No matter what mounting base you pair the RAM® X-Grip® with, the RAM® ball and socket technology allows for near-infinite adjustability and extends the life of your tablet with vibration damping capabilities.

RAM® X-Grip® Universal Holder for 9"-10" Tablets with Ball
P/N 11-18170

RAM® X-Grip® Universal Holder for 7"-8" Tablets with Ball
P/N 11-11248

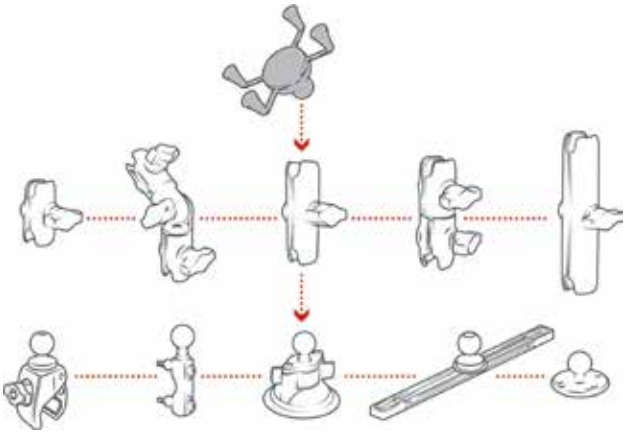
RAM® X-Grip® Universal Holder for 9"-10" Tablets
P/N 11-11239

RAM® X-Grip® Universal Holder For 11"-12" Tablets
P/N 11-14778

AV

PHONE HOLDERS RAM® X-GRIP®

The RAM® X-Grip® is the most durable universal phone holder on the market. The spring-loaded arms expand and contract to provide a perfect fit for your phone with or without a case. Available for cellphones of all sizes, the RAM® X-Grip® cradle secures your device while keeping it completely functional and accessible. No matter what mounting base you pair the RAM® X-Grip® with, the RAM® ball and socket technology allows for near-infinite adjustability and extends the life of your phone with vibration damping capabilities.



Compatible and interchangeable with a wide range of popular RAM® mounting products

RAM® X-Grip® Universal Phone Holder with Ball
P/N 11-09777

Minimum Width: 1.875”

Maximum Width: 3.25”

RAM® X-Grip® Large Phone Holder with Ball
P/N 11-12987

Minimum Width: 1.875”

Maximum Width: 3.25”

FORM-FIT PHONE HOLDERS

These high-strength composite, form-fit cradles were designed specifically for the Apple and Samsung devices. Allowing for one-handed docking and removal, all buttons, cameras, ports, and speakers are left exposed. With the two-hole AMPS pattern on the back of each cradle, attach to a RAM® diamond ball base and additional RAM® components.

RAM® Form-Fit Cradle for Apple iPhone 12 & 13 Pro Max with Ball
P/N 11-19216

RAM® Form-Fit Cradle for Apple iPhone 12 Pro Max & 13 Pro Max
P/N 11-18864

RAM® Form-Fit Cradle for Apple iPhone 12 & 12 Pro
P/N 11-18860

RAM® Form-Fit Cradle for Apple iPhone 11 Pro
P/N 11-19199

RAM® Form-Fit Cradle for Apple iPhone 11
P/N 11-19008

RAM® Form-Fit Cradle for Apple iPhone 11 Pro Max
P/N 11-19198

RAM TAB-TITE™ SPRING LOADED HOLDER FOR 8 INCH TABLETS

Get the most out of your tablet with the RAM Tab-Tite™ spring loaded, quick release cradle. With interchangeable cup ends, you can fit the cradle to your tablet for a near custom fit. This spring loaded design makes it easy to load and unload your tablet, along with keeping it secure while on the go. Cup ends are designed to optimize the functionality of your tablet, allowing access to audio jacks, usb, power, and other ports, your tablet can be used just as it was intended. Perfect for stationary or on the go applications, this new RAM product is just what you need to get the most out of your tablet. The included backplate is interchangeable with various size support cups, making it compatible with numerous tablet models. New detachable support cups are the only components needed for purchase, attach to the backplate for support of your new tablet. .....P/N 11-18964 ..... ---

RAM CRADLE FOR SPOT 4

The form-fitting, high-strength composite RAM® EZ-Roll'r™ cradle for the SPOT Gen4™ allows for the attachment of RAM® components containing the universal AMPS hole pattern making it the ideal GPS mount for SPOT Gen4™. With the device in the cradle, all buttons and the power port remain fully accessible. The RAM® EZ-Roll'r™ cradle for the SPOT Gen4™ is compatible and interchangeable with a wide range of RAM® diamond ball bases. Included is a set of two nuts and bolts.....P/N 11-18801 ..... ---

RAM X-GRIP RUBBER CAP 4-PACK REPLACEMENT

The RAP-UN-CAP-4U consists of four black post caps that fit all versions of the RAM X-Grip®. Optional super glue is included to offer extra security for these rubber cap accessories.....P/N 11-18792 ..... ---

RAM UNPKD RAM DOUBLE 1” BALL ADAPTER

The RAM-B-230, double ball joiner, consists of a 1” rubber ball on both ends that allow the connection of two 1” socket arms. When measured from ball center to ball center the arm length is 1.75”. This mount is ideal if your mount arm is just too short .....P/N 11-18169 ..... ---

AV

RAM INTELLISKIN CHARGERS & DOCKS

RAM INTELLISKIN SNAP-CON™ GDS TO MICRO USB

The Snap-Con™ GDS to Micro USB 2.0 Adaptor is an essential accessory for any IntelliSkin™ or other GDS® compatible device. This accessory enables on the go charging and data connectivity of any GDS® compatible device, including devices wrapped in IntelliSkin™, using an included Micro USB 2.0 cable.....P/N 11-15488 ..... ---

RAM INTELLISKIN GDS 6 PORT USB CHARGER 60W 110V-240V

The GDS® Intelligent 6-Port USB Charger works with the GDS® 6 Gang Desktop Dock to simultaneously charge six unique devices enclosed in IntelliSkin™ cases. Up to six USB cables connect to the back of the Desktop Dock and plug into the USB Charger.

P/N 11-15492 ..... ---

RAM INTELLISKIN DESKTOP GDS DOCK ADJUSTABLE BACK

The Adjustable GDS® Desktop Charger is a low profile docking station that is ideal for the office, warehouse, class room, exam room or other stationary location. This dock integrates a unique adjustment feature to accommodate a wide range of device thicknesses.....P/N 11-15495 ..... ---

RAM INTELLISKIN VEHICLE GDS LOCK IPAD PRO 10.5

The RAM® Locking Vehicle Dock with GDS Technology™ is a spring loaded, quick release cradle with a keyed lock that offers a secure fit with easy access to the mounted tablet. This docking station is compatible with the Apple iPad Pro 10.5 with IntelliSkin™ .....P/N 11-15496 ..... ---

RAM INTELLISKIN VEHICLE GDS LOCK APPLE IPAD MINI 3

The RAM® vehicle dock with GDS Technology™ is a spring loaded, quick release cradle with a keyed lock that offers a secure fit with easy access to the mounted tablet. This docking station is compatible with the Apple Ipad Mini 2/3 with IntelliSkin™ .....P/N 11-15497 ..... ---

RAM INTELLISKIN VEHICLE GDS LOCK APPLE IPAD MINI 4

The RAM® vehicle dock with GDS Technology™ is a spring loaded, quick release cradle with a keyed lock that offers a secure fit with easy access to the mounted tablet. This docking station is compatible with the Apple iPad mini 4 with IntelliSkin™ .....P/N 11-15498 ..... ---

RAM INTELLISKIN GDS TOP CUP VEHICLE DOCK APPLE IPAD MINI 2

The RAM-GDS-DOCKT-AP6U includes the top docking cup and necessary hardware for converting your existing GDS® Vechicle Dock to support the Apple iPad mini 2 & 3 with IntelliSkin™. Without having to purchase a brand new vehicle dock, this top cup allows you to modify your existing dock to work with your new IntelliSkin™ device. .....P/N 11-15500 ..... ---

RAM INTELLISKIN GDS TOP CUP VEHICLE DOCK APPLE IPAD MINI 4

The RAM-GDS-DOCKT-AP7U includes the top docking cup and necessary hardware for converting your existing GDS® Vechicle Dock to support the Apple iPad mini 4 with IntelliSkin™. Without having to purchase a brand new vehicle dock, this top cup allows you to modify your existing dock to work with your new IntelliSkin™ device. .....P/N 11-15502 ..... ---

RAM INTELLISKIN GDS TOP CUP VEHICLE DOCK APPLE IPAD AIR 2

The RAM-GDS-DOCKT-AP8U includes the top docking cup and necessary hardware for converting your existing GDS® Vechicle Dock to support the Apple iPad Air 2 with IntelliSkin™. Without having to purchase a brand new vehicle dock, this top cup allows you to modify your existing dock to work with your new IntelliSkin™ device.

P/N 11-15503 ..... ---

RAM INTELLISKIN GDS TOP CUP VEHICLE DOCK IPAD PRO 10.5

The RAM® Vehicle Dock with GDS Technology™ is a spring loaded, quick release cradle that offers a secure fit with easy access to the mounted tablet. This docking station is compatible with the Apple iPad Pro 10.5 with IntelliSkin™. **Note**: This version of the GDS® vehicle dock is not recommended for light, medium or heavy duty commercial vehicles.

P/N 11-15504 ..... ---

RAM INTELLISKIN GDS TOP CUP VEHICLE DOCK APPLE IPAD MINI

The RAM® vehicle dock with GDS Technology™ is a spring loaded, quick release cradle that offers a secure fit with easy access to the mounted tablet. This docking station is compatible with the Apple Ipad Mini 2/3 with IntelliSkin™. **Note**: This version of the GDS® vehicle dock is not recommended for light, medium or heavy duty commercial vehicles.

P/N 11-15505 ..... ---

RAM INTELLISKIN GDS TOP CUP VEHICLE DOCK APPLE IPAD MINI 4

The RAM® vehicle dock with GDS Technology™ is a spring loaded, quick release cradle that offers a secure fit with easy access to the mounted tablet. This docking station is compatible with the Apple iPad mini 4 with IntelliSkin™. **Note**: This version of the GDS® vehicle dock is not recommended for light, medium or heavy duty commercial vehicles.

P/N 11-15506 ..... ---

RAM INTELLISKIN GDS TOP CUP VEHICLE DOCK APPLE IPAD AIR 2

The RAM vehicle dock with GDS Technology™ is a spring loaded, quick release cradle that offers a secure fit with easy access to the mounted tablet. This docking station is compatible with the Apple iPad PRO 9.7, Air 2 and 5th Generation with IntelliSkin™. **Note**: This version of the GDS® vehicle dock is not recommended for light, medium or heavy duty commercial vehicles.....P/N 11-15508 ..... ---

RAM INTELLISKIN VEHICLE GDS LOCK APPLE IPAD AIR 2

The RAM vehicle dock with GDS Technology™ is a spring loaded, quick release cradle with a keyed lock that offers a secure fit with easy access to the mounted tablet. This docking station is compatible with the Apple iPad PRO 9.7, Air 2 and 5th Generation with IntelliSkin™. P/N 11-15499 ..... ---

RAM INTELLISKIN GDS APPLE IPAD MINI 4

The IntelliSkin™ is a protective sleeve for the Apple iPad mini 4 featuring GDS® Technology. The IntelliSkin™ will bring drop protection to your device and features an integrated connector which is molded directly into the skin. This prevents damage to the connector on your device from repetitious docking and un-docking.

P/N 11-11513 ..... ---

RAM INTELLISKIN GDS APPLE IPAD AIR 2

The IntelliSkin™ is a protective sleeve for the Apple iPad Air 2 featuring GDS® Technology. The IntelliSkin™ will bring drop protection to your device and features an integrated connector which is molded directly into the skin.....P/N 11-15514 ..... ---

AV

COMMANDER DOCKING STATIONS

COMMANDER GMA-350 DOCKING STATION

Brand New from Lone Star, Commander GMA-350 Docking station designed for one of Garmins new exciting products. Designed to show off Garmin's new 3D audio capabilities. Comes with everything you will need to run your GMA-350.

P/N 11-10595 ..... ---

COMMANDER GTN-650 DOCKING STATION

Brand New from Lone Star, Commander GTN-650 Docking station designed for one of Garmin's new exciting products. Comes with everything you will need to run your GTN-650, including a chassis mounted avionics cooling fan.

P/N 11-10593 ..... ---

COMMANDER GTN-750 DOCKING STATION

Brand New from Lone Star, Commander GTN-750 Docking station designed for one of Garmin's new exciting products. Comes with everything you will need to run your GTN-750, including a chassis mounted avionics cooling fan.

P/N 11-10594 ..... ---

COMMANDER 2000K

Pre-wired in the "take home" mode. Simply slide your KLN90A/B, KLN89/B, KLN35 Series, and KLX-135 Series GPS or GPS-COM, into the tray and explore your GPS receiver as if you were flying. Practice actual flight or approach at home, store flight plans, and learn all of your units functions. Update your units database via the internet using a desktop or laptop computer & save up to $300/year. Appropriate connector is shipped free via UPS Blue Label from the factory. Additional connectors, cooling fan, Argus and moving map interface available.

2000K Station.....P/N 11-18478 ..... ---
2000K 220VAC.....P/N 11-04876 ..... ---

COMMANDER 2900 TRIMBLE 2101 24VOLT

Lone Star Aviation's Docking Station for the Commander 2900 2101/CUGR GPS System is designed to allow you to explore the FreeFlight Systems 2101/CUGR features in a non-flying environment. Ideal for Guard Units, EMS, Law Enforcement, DEA, Boarder Patrol, etc. staff training. Unit does not include cable

P/N 11-04926 ..... ---

COMMANDER STATION FOR C-5000

Lone Star Aviation's Commander Station has been designed for the Wulfsberg C-5000 Control Head equipment so that the pilot can practice GPS, control head functionality at his or her own pace in a non flying environment. The 1 port cooling fan (LS03-02013) plugs into the rear accessory panel and provides 6-8 CFM of cooling to the C-5000 receiver

P/N 11-04928 ..... ---

COMMANDER 2900 KLN-900 DOCKING STATION

The Commander 2900K is Lone Star Aviation's Docking Station for BENDIX/KING/HONEYWELL KLN 900 DZUS-Mounted GPS. The portable docking station is designed to let you explore the KLN 900 features in a non-flying environment...in the comfort of your home or office. Operation is simple and fast, just slide your KLN 900 into the Commander's Tray and you are ready to go.

P/N 11-04911 ..... ---

COMMANDER GARMIN GNS-430/530

Lone Star Aviation's Docking Station for Garmin's GNS 430/530 Flight Management System. The Commander is a portable Docking Station designed to let you explore the Garmin GNS 430/530 features in a non.

Features: • Simulate your route of flight and published approaches • Access sids and stars • Program and store flight plans • Simulate approaches • Enter and store waypoints • Reduce your learning curve • Operating your GNS430/530 in flight will become automatic.

GNS-430.....P/N 11-04864 ..... ---
GNS-530.....P/N 11-04866 ..... ---

LONESTAR ACCESSORIES

Description	Part No.	Price
1 Port Dock Station Cool Fan	11-04859	---
Cooling Fan Tube Kit (Supports the Commander Cooling Fan)	11-04886	---
KA-20 Mounting Bracket	11-04873	---
USB to Serial Converter	11-04884	---
CNX-80 Power / Simulation Harness	11-04918	---
KLN-89B-94 Data Cable	11-04882	---
KLN-88-Power Cable	11-04881	---
KLN-35A Power Cable	11-04880	---
KLN-89B 94 Power Cable	11-04879	---
KLN-90A/B Power Cable	11-04878	---
KLX-135 Power Cable	11-04874	---
KLN-900 & A/C Panel	11-04913	---
KLN-900 Power Cable	11-04912	---
SD Converter TSO 24-13.8 VDC	11-04894	---
DC Converter TSO 24-16 VDC	11-04895	---
DC Converter 24-19VDC TSO	11-04898	---
6 Port Cable Kit 36"	11-04914	---
6 Port Cable Kit 60"	11-04915	---
Power Simulation Cable for Trimble 2101, CUGR MS 3747	11-04927	---
Plastic Connector Kit for DC Step Down Converter	11-06001	---
Nylon 5/8" Y adapter for splitting airflow from one avionics cooling fan to two units.	11-08622	---
5/8" Inch Cyclone Tubing FAA/PMA	11-00504	---
LoneStar Ventilation Blower Kit 12 Volt	11-08627	---
LoneStar Ventilation Blower Kit 24 Volt	11-08640	---
Metal Connector Kit for DC Step Down Converter	11-08636	---
Lone Star FAA-TSO Ms-USB Panel Mount	11-10696	---
28V Cigarette Lighter Recp TSOD	11-11133	---
Connector Kit DC Step Down Converter with Cigarette Lighter Receptacle. Connect directly to one of the Down Converters. Cable length is 36 inches.	11-08637	---

AV

POINTER 3000 SERIES ELTS

The Model 3000 (AF/AP) and 3000 (AF) which have been in production for twenty years are now revised to incorporate the upgrades of RTCA DO-183 for emergency locator transmitters. The new models, designated 3000-10 (AF/AP) and 3000-11 (AF) are interchangeable with existing units in form, fit and function. The mounting bracket, directly interchangeable with the current design, has been modified for the new environmental requirements. A remote panel control switch with visual activation monitor, previously an optional accessory, is now required in all (AF) automatic fixed installations and many of the (AP) automatic portable installations, is now included in the complete kits. The standard whip antenna and coaxial cable previously supplied with the Model 3000 unit is interchangeable with the new models. Those components, if serviceable, may remain in use with the new transmitter. Existing remote switch wiring for current pointer units may be used, and installation of the switch requires minimal panel space. The 3000-10 and 3000-11 transmitters incorporate an alkaline battery pack specifically designed to endure short term extreme thermal variations and mechanical shock requirements of RTCA DO-183. Emergency voice transmission is provided on the 3000-10 transmitter if desired.

Specifications:

Size: 3 1/2"W x 7 5/8"H x 2-3/4"D.

Installed Weight: 2.0 lbs.

(Complete).....P/N 3000-10 ..... ---

Auto Fixed .....P/N 3000-11 ..... ---

Accessories:

Merl Battery pack, 2-year Alkaline .....P/N 11-17950 ..... ---

Pointer Battery Pack.....P/N 2020 ..... ---

Mounting bracket assembly.....P/N 2017 ..... ---

Master switch guard kit .....P/N 2021 ..... ---

2019-10 Remote switch kit.....P/N 11-05889 ..... ---

Fixed (remote whip) antenna .....P/N 3001 ..... ---

Coaxial antenna cable.....P/N 3002 ..... ---

Telescopic antenna for 3000/4000 ELT w/tether
P/N 2006 ..... ---

2006-10 Telescope Antenna with Lanyard for 3000.4000 ELT w/tether
P/N 11-16604 ..... ---

ELT REPLACEMENT BATTERIES

We now offer the complete line of ELT replacement battery packs. These top quality battery packs are factory new & meet or exceed FAA TSO-C91a and are also Transport Canada approved. Request current price on any ELT replacement battery or ELT, not shown here. **Note: ELT Replacement Batteries are non-returnable due to shelf-life.**

Application	Part No.	Price
BP-1020 Dorne & M. (2 yr.)	11-17920	---
BP-1045 EBC102/302 (2 yr.) - GS-21	11-17925	---
BP-1035 Garrett R88 (2 yr.)	11-17930	---
Garrett: Rescu/88L or Rescu/88C 2 Year	11-17937	---
BP-1005 Merl/Larago (2 yr.)	11-17935	---
BP-1026 CIR-11	11-17910	---
BP-1030 Pointer (2 yr.)	11-17950	---
Narco (2 yr.) (ELT10) BP-1010. Approved for Canadian use.	11-17945	---
BP-1015 Sharc-7 (2 yr.)	11-17955	---
452-0130 Artex 110-4	11-17957	---
EBC 502 - GS-52	11-02577	---
452-3063 ELT-200	11-14935	---
Ultralife Lithium D Cell Battery for AK-451 TSO	11-16278	---
AK-451 Replacement 4 pack Batteries TSO	11-16282	---

ACK 406/121.5 MHZ E-04 ELT

The all new E-04 ELT is a direct replacement for the more than 62,000 model E-01 ELT's (by ACK) on the market today. The new E-04 fits directly into the current E-01 mounting trays and uses the same remote control panel indicator. The E-04 external antenna will utilize your current antenna mounting and wiring installations.

Features: • Accepts GPS position imput data from Bendix/King. Garmin, Nema 0183 GPS • New antenna is swept back 20 degrees, and features a molded plastic base. • 5 watts @ 406MHz for 24 hours, and 100 Mw @ 121.5 MHz for 48 hours. • New simple plug in audible alert indicator. • New lithium battery pack offers a 5 year battery life, and makes it substantially lighter. • Can use Ameri-king remote panel indicator.

Retrofit Kit does not include remote

Description	Part No.	Price
ACK E-04 406MHZ ELT Kit	11-06395	---
ACK E-04 406MHZ ELT Kit INTL.	11-09582	---
ACK E-04 406MHZ ELT Kit Canada	11-14186	---
ACK E-04 Retrofit from E-01 Kit Canada	11-14185	---
ACK E-01 TO E-04 Retro FIT Kit	11-06396	---
ACK E-01 TO E-04 Retro FIT Kit INTL.	11-09231	---
E-04 Whip Antenna	11-10465	---
RCPI Cable For ACK 406/121.5 MHZ ELT	11-09971	---
E-04RC Retrofit to Complete ELT Kit	11-15078	---
Straight throught ACK to Ameriking Cable for ACK ELT	11-14707	---

ACK E-04 COMMERCIAL ELT KIT

GPS capable ELT accepts Garmin aviation, Bendix/King aviation, NMEA 0183 and Arinc 429 data. Retains GPS coordinates after power is removed. Remote fits Artex and Kannad panel cut-outs. ELT certified to the new TSO-C126B standard battery certified to TSO-C142A lithium batteries UN/DOT 8.3 lithium batteries.

Description	Part No.	Price
ACK E-04 Commercial ELT Kit w/ 350K Antenna USA	11-13590	---
ACK E-04 Commercial ELT Kit w/ 350K Antenna (Intl)	11-13591	---
ACK E-04 Commercial ELT Kit W/ Whip Antenna USA	11-13004	---
ACK E-04 Commercial ELT Kit W/o Antenna USA	11-13005	---
ACK E-04 Complete ELT With 350 Knot Rod Antenna USA	11-13590	---
ACK E-04 Commercial ELT Kit With AV-300-1 Rod Antenna	11-13594	---
ACK E-04 Commercial Elt And Battery Only (No Kit)	11-14086	---
ACK E-04 Commercial ELT Kit (Canada) with whip Antenna	11-14947	---
ACK A30 4ft Interface Cable Assembly	11-13605	---
ACK A30 Add On Wire Kit	11-13606	---
ACK E-04 25 Ft Remote Cable	11-13636	---
ACK A-04 Coax Cable	11-13637	---
ACK E-04 Standard Remote Cable	11-09971	---
ACK E-04 Hardware Placard Din Plug Audio Alert Cable	11-13639	---
ACK E-04 Mounting Tray Assembly Includes Straps	11-13641	---
ACK E-04 Audio Alert Indicator	11-13643	---
ACK Pointer Antenna Adapter	11-13644	---
ACK E-04 Mini Din Connector	11-13647	---
ACK E-04 Audio Cable	11-13649	---
ACK E-04 Warning Horn	11-13651	---

ACCESSORIES FOR E01 ELT

ACK E-01 / E-04 Remote Switch .....P/N 11-05262.....---

ACK E-04 Replacement Battery.....P/N 11-10012.....---

AV

EBC 406-SERIES ELT'S

All EBC 406 ELT's have a built-in self test feature that allows the pilot to check 406 power and the antenna-coax connection. Both cabin and tail mount ELT's use an external antenna. **Features:** • Operating Freqs: 406.028 MHz and 121.5 MHz • Output Power on 406 MHz: 5W for 24 Hours at -20C • Output Power on 121.5 MHz: 50mW min for 50 Hours at -20C • Operating Temperature: -20C to +55C • Useful Battery Life: 5 Years or 1 Hour of Cumulative Use • Modulation 406 MHz: Biphase L (16KOG1D) • Modulation 121.5 MHz: Swept Tone 1600Hz to 300 Hz, 2-4 • Times/Second • Automatic Activation: Velocity Change of 4.5 feet per Second • Altitude: 50,000 feet • Decompression: 8000 feet to 40,000 feet • High Pressure: -15,000 feet • Humidity: 95% for 50 Hours • Shock Performance: Withstands 500G's on 6 axes • Vibration: Withstands 10 G's • Immersion: Withstands 24 hours in Salt Water • Warranty: 2 Years, Made in the USA.

Model	Description	Part No.	Price
EBC 406AP	For fixed wing aircraft. Includes transmitter, survival antenna, mounting bracket, external whip antenna with cable & battery pack. For cabin/cockpit installation.	11-05917	---
EBC 406AF	For fixed wing aircraft. Includes transmitter, survival antenna, mounting bracket, external whip antenna with cable, remote control monitor with connector kit & battery pack. For aircraft tail installation.	11-05918	---
EBC 406APH	Same as AP system but with omni-directional helicopter activation system. For helicopter use only.	11-05919	---
EBC 406AFH	Same as AF system but with omni-directional helicopter activation system. For helicopter use only.	11-05920	---
EBC 406AFH	Same as AF system but with omni-directional helicopter activation system. For helicopter use only. (International Version)	11-10009	---
EBC 40 6HM	Cabin mounted tri-frequency ELT (406.028, 121.5 and 243.0 MHz) Non-reflective flat black for night vision equipment contractility. With integral antenna, omni-directional helicopter activation system and battery pack. (International Version)	11-05921	---
EBC-406HM-INT		11-07240	---
EBC 406APM	Same as EBC 406AP but finished in non-reflective flat black for night vision equipment compatibility. Tri-frequency signal. Comes with external rod antenna.	11-05922	---
EBC 406AFM	Same as EBC 406AF but finished in non-reflective flat black for night vision equipment compatibility. Tri-frequency signal. Comes with external rod antenna.	11-05923	---
EBC 406APHM	Same as EBC 406APM but with the addition of an omidirectional helicopter activation system. For cabin mounting. Comes with external rod antenna.	11-05924	---
EBC 406AFHM	Same as EBC 406AFM but with the addition of an omidirectional helicopter activation system. For tail mounting. Comes with external rod antenna.	11-05925	---

Model	Accessories	Part No.	Price
GS-46	5 year lithium battery pack for any of EBC's 406 ELTs	11-05926	---
BB-12	Mounting bracket for EBC 406AP series ELTs	11-05927	---
BB-12M	Mounting bracket for EBC 406HM, APM and APHM	11-05928	---
BB-14	Mounting bracket for EBC 406AF series ELTs	11-05929	---
RCM-1	Remote Control Monitor for EBC 406AF series ELTs with connector kit	11-05930	---
ANT-406W	External whip antenna for both EBC 406AP and AF series ELTs. Two frequencies	11-05931	---
ANT-406T	Survival tape antenna for all EBC 406 ELTs. Three frequencies.	11-05932	---
ANT-406B	Blade antenna for high speed use. Three frequencies	11-05934	---
CB-1	6ft. cable between ELT and antenna	11-05935	---

KANNAD INTEGRA 406AF ELTS

Weighing in at just 1.873lb and measuring just 6.89 x 3.90 x 3.40 inches the INTEGRA boasts a number of new and innovative features in a very small easy to install package. The INTEGRA transmits on both the international 406MHz satellite search and rescue system and on 121.5MHz for local direction finding. The minimum operating temperature of the unit is -20°C. The internal battery life of the INTEGRA is 6 years.

Description	Part No.	Price
ELT - Unit Only	11-18319	---
406 ELT AFH (Heli.) USA	11-09327	---
USA Rod (up to 350 knots)	11-09928	---
USA Whip Antenna (up to 250 knots)	11-19672	---
Canada Rod Antenna (up to 350 knots)	11-19673	---
Canada Whip (up to 250 knots)	11-10016	---
International Rod Antenna (up to 350 knots)	11-17103	---
International Whip Antenna (up to 250 knots)	11-19674	---

KANNAD INTEGRA 406AF-H ELT FOR HELICOPTERS

The new INTEGRA 406 GPS ELT is a major step forward in the development of ELT technology and aircraft safety equipment. The INTEGRA is the only ELT in the world which operates on the international 406MHz satellite search and rescue system and includes an internal GPS and 406MHz antenna, plus an internal battery. As a result of this technological breakthrough the INTEGRA offers the international flying community a number of major benefits over the standard ELT models available on the market today.

USA .....P/N 11-09931 ..... ---
Canada .....P/N 11-15264 ..... ---

KANNAD INTEGRA AP-H THREE FREQUENCY ELT FOR HELICOPTERS

The McMurdo Kannad Integra AP-H is the helicopter-specific version of the 3-frequency commercial aircraft portable McMurdo Kannad Integra AP. It is designed for fixed installation, but can be used as a portable by deploying the supplied portable antenna. The McMurdo Kannad Integra AP-H has all the features of the compact plus GPS and internal 406MHz antenna. Sending a distress message with GPS coordinates enables rescuers to come directly to you, rather than search the area .....P/N 11-15224 ..... ---

INTEGRA AF-H UNIT ONLY ELT

Automatic Fixed ELT intended to be permanently attached to the aircraft and connected to an external antenna.
Operating independently of the aircraft, the back-up antenna will transmit your position through the 406 MHz frequency to the Cospas-Sarsat search and rescue satellites.
The Integra AF is designed for flat installation on fixed wing aircraft.....P/N 11-19150 ..... ---

KANNAD INTEGRA ARINC E-NAV

Provides a fail safe GPS data acquisition for the INTEGRA ELT system providing redundancy in the system with: 1) Integra internal GPS and 2) Aircraft Onboard GPS acquisition. Compatible with ARINC 429/743 databus. Size 205*100*86mm for the overall ELT system.

Description	Part No.	Price
Kannad Integra Arinc E-NAV	11-12326	---
Integra Arinc E-NAV ELT AP Mount Bracket	11-12327	---
Integra Arinc E-NAV ELT AF Mount Bracket	11-12328	---

10 CONDUCTOR GRAY CODE TEFZEL WIRE

Excellent for carrying gray code information from the encoder to other devices that take gray code input. Instead of running individual 24AWG wirs and running them in a bundle, use this handy all in one, color coded, 10 conductor cable.
Sold in 1' increments
P/N 11-04479 ..... ---

AV

KANNAD ELTS

KANNAD INTEGRA EASY ELT WITH ROD ANTENNA USA

It is the world's only ELT equipped with a 406 MHz back-up antenna, which enables the ELT to transmit the 406 MHz distress signal independently from the aircraft, in case the external antenna is broken or damaged. Its embedded GPS improves location accuracy to hundreds meters while avoiding the cost of a GPS interface installation. Save long-term costs with the Integra ELT's 10-year warranty, the longest warranty period in the industry. Trusted partners such as Airbus, Embraer, Honda Jet, Cub Crafters, Robinson Helicopters and others rely on the Kannad Integra ELT. All aircraft Straight replacement for ARTEX RCPs to ensure easy replacement of your old two frequency ELT

Features: • Industry Leading 10 Year Warranty (Must Register Unit in First 24 Months) • Weight: 50g. • Dimensions: 33 x 50 x 43mm • 3-position red switch (ON, ARMED, TEST/RESET) • D-SUB 9 pin connector with threaded locking device (UNC 4-40) • Output to drive an external buzzer • Output to control an external horn or annunciator (up to 1A) • Kit includes mating SUB-D9 connector for easier installation

Specifications: • Operating Temperatures: -20° to +55°C • Two-frequency transmitter (121.5 / 406MHz) / 48 hour certified transmission on 406MHz (distress) and 121.5MHz (homing)@ -40°C • 6 year battery life-time • Internal GPS receiver • Internal 406MHz antenna • Weight: 850 g • Transmitter Dimensions: 131x 86 x 75.4 mm

P/N 11-18968 ..... ---

KANNAD ACCESSORIES

NEMA INTEGRA E-NAV

Provides back-up GPS position data taken from the aircraft's own panel mounted GPS.

P/N 11-10751 ..... ---

BATTERY REPLACEMENT

6-year battery replacement kit for the 406AF compact or Integra ELTs. Includes 2 cell battery pack, replacement O-ring, desiccant pack and replacement self locking nuts. **Attention: This Replacement Battery is 2-cell and will ONLY work with the 406-AF Compact unit.**

BAT-200 .....P/N 11-06297 ..... ---

BATTERY REPLACEMENT

For Kannad 406 ELTs. Comes with 3 cell battery pack, replacement o-ring, desiccant pack and replacement self locking nuts. **Attention: This Replacement Battery is for the 406 AF, AF-H, AP, AP-H, AS, SURVIVAL series ONLY & will NOT work with the "AF-Compact", see Alternate Items for the Compact Replacement**

BAT-300 .....P/N 11-06296 ..... ---

AF COMPACT INSPECTION KIT

P/N 11-08063 ..... ---

KANNAD 406 AS LOCKING PIN

P/N 11-07719 ..... ---

KANNAD PROGRAMMING DONGLE INTEGRA LONG RANGE

P/N 11-12331 ..... ---

KANNAD PROGRAMMING DONGLE

The Programming dongle is a smart connector identical to the DIN12 that is used to store aircraft programming information. Once attached to the ELT wire harness it allows fleet operators to move any ELT to any other aircraft. The stored aircraft data will be automatically downloaded into the ELT. Can be use with the following Kannad ELT models: (AF-COMPACT, AF, AF-H, AP, AP-H, AS, SURVIVAL)

USA .....P/N 11-07088 ..... ---

International.....P/N 11-06990 ..... ---

KANNAD ANT650 - BLADE ANTENNA

Developed by RAYAN. Three frequency antenna (121.5 / 243 / 406 MHz) High performance low profile outside antenna designed for Corporate jets an d airliners

Applications: AF, AF-H, AS, AS-H * "High Speed" Aircraft * JTSO and TSO

P/N 11-06294 ..... ---

KANNAD ANT 100 AUXILIARY ANTENNA (BNC)

Auxilary Whip antenna. Turns any Kannad ELT into a portable survival unit. Stores under the velcro strap of the mounting tray.

P/N 11-06288 ..... ---

KANNAD ACCESSORIES

RC102 - REMOTE CONTROL

Replacement control panel for ACK, AMERIKING plus Narco two wire switches and challenging locations . Front panel included in RC102 & RC100 .....P/N 11-07901 ..... ---

RC200 - REMOTE CONTROL

Outline Dimensions: 1.3 x 1.97 x 1.69 in (33 x 50 x 43 mm). 3-position red switch (ON, ARMED, TEST/RESET). D-SUB 9 pin connector with threaded locking device (UNC 4-40) .The Kit includes mating SUB-D9 connector for easier installation. **Applications**: AF- Compact, AF, AF-H, AP, AP-H **Switch is not waterproof. Cannot be installed flat.**

P/N 11-06302 ..... ---

KANNAD 406 PR600 ELT PROGRAMMING TRAINER

Replaces the former PR550 Programming Equipment kit.....P/N 11-07102 ..... ---

DIN12 CONNECTOR

For connection to Remote Control Panel, CSI44 interface module, dongle or programming equipment. **Compatible** with all KANNAD 406 ELTs .....P/N 11-06303 ..... ---

UNIVERSAL COMPACT MOUNTING BRACKET

Compatible with the drilling on all 121.5 Mhz beacons .....P/N 11-07900 ..... ---

PROGRAMMING DONGLE ASSEMBLY

Din 12 connector with serial memory module (SMM) for programming operations. Fitted with a female DIN12 connector on RCP side. **Compatible** with all KANNAD 406 ELTs.....P/N 11-06304 ..... ---

KANNAD PROGRAMMING DONGLE INTEGRA/SA

P/N 11-12330 ..... ---

AV

ARTEX ME406 ACE ELT

Artex's ME406 ACE (Absolute Cost Efficiency) kit is designed to be a direct replacement for ACK ELTs and ACK remote switches. The ME406 is a single-output ELT that transmits a 406 MHz emergency signal to the Cospas/Sarsat satellites and a local 121.5 homing signal - all using the same RF output and one coax cable. In the event of a crash, the ELT automatically activates and proceeds to transmit a continuous swept tone of 121.5 MHz. As the ELT activates, the 406 MHz transmitter sends an encoded 5-watt signal to the Cospas Sarsat system every 50 seconds for 440 milliseconds to alert Search and Rescue.Includes Whip Antenna.
International.....P/N 11-06984 ..... ---

ARTEX 406 MHZ ELTS 1000

The ARTEX ELT 1000 is a value-priced upgrade to standard 121.5 MHz transmitters, which are no longer monitored by the Cospas-Sarsat system. The 406 MHz transmitter produces a much more accurate position, typically 3 kilometers as compared with 15 to 20 kilometers for 121.5 MHz transmitters. When coupled to the aircraft navigation system via a navigation interface, the ELT 1000's accuracy improves to approximately 100 meters.

Description	Part No.	Price
406 Mhz ELT 1000 Base Pack w/o Antenna USA	11-13018	---
406 Mhz ELT 1000 Base Pack w/whip Antenna USA	11-13020	---
406 Mhz ELT 1000 Base Pack w/whip Antenna Int	11-13021	---
406 Mhz ELT 1000 Base Pack w/rod Antenna USA	11-13022	---
406 Mhz ELT 1000 Base Pack w/ Rod Antenna Int	11-13023	---
406 Mhz ELT 1000 Base Pack w/o Antenna Int	11-20084	---
ELT 1000 Ace Base Pack w/ Whip Antenna USA	11-13024	---
ELT 1000 Ace Base Pack w/ Whip Antenna Int	11-13025	---
ELT 1000 Ace Base Pack w/ Rod Antenna USA	11-13026	---
ELT 1000 Ace Base Pack w/ Rod Antenna Int	11-13027	---
ELT 1000 Replacement Battery	11-13028	---
ELT 1000 Replacement Mounting Strap And Tray	11-13029	---
ELT 1000 Replacement 2 Wire Remote Switch	11-13030	---
ELT 1000 Dual Band Rod Antenna	11-13031	---

ARTEX ELT 345™ PILOT KIT

The ARTEX ELT 345 Pilot Kit is the perfect combination of safety and survival products designed to keep aviators safe in an emergency. The Pilot Kit provides aviators with one convenient kit to outfit their aircraft with the latest 406 MHz Emergency Locator Transmitter (ELT) along with personal survival gear to provide a redundant system to alert Search and Rescue of their location.
The ARTEX ELT 345 comes with a remote switch, buzzer, antenna and installation hardware and provides pilots with a cost-effective ELT upgrade solution to legacy 121.5 MHz ELTs that are no longer monitored by Search and Rescue Satellites, or as a replacement for other 406 MHz ELTs for the quality and value-minded aviator.
USA .....P/N 11-17449 ..... ---
International / Canada .....P/N 11-18726 ..... ---

ARTEX ELT 345

The ELT 345 boasts an industry low price for an ELT providing the same quality and performance on which the ARTEX brand was built. GPS data is embedded within the first emergency transmission and provides Search and Rescue personnel with the aircraft location, within 100 meters, in less than a minute. Transmits on 406 MHz and 121.5 MHz frequencies while providing position accuracy thanks to the built-in GPS navigational interface. GPS data is embedded within the first emergency transmission and provides Search and Rescue personnel with the aircraft location, within 100 meters, in less than a minute. FAA approved.
In The Box: • ELT 345 • Remote switch panel (Hookup wires not included) • Whip antenna - Rated to 250 knots • Coaxial cable • Mounting tray • Battery
USA .....P/N 11-13989 ..... ---
International.....P/N 11-14017 ..... ---

REPLACEMENT BATTERY USA

6-year Lithium (LiMnO2) replacement battery for the ELT 345
P/N 11-14134 ..... ---

ARTEX 345 ELT COMPACT KIT

The ARTEX ELT 345 transmits on 406 MHz and 121.5 MHz frequencies and can provide position accuracy with an optional GPS input thanks to the built-in GPS navigational interface. GPS data is embedded from the first emergency transmission and provides Search and Rescue personnel with the aircraft location, within 100 meters, in less than a minute. This unit can be activated manually with (remote switch or ELT switch) or automatically (the G-switch detects a 2.3G or greater impact). Once activated, the ELT 345 transmits a 406 MHz signal with the beacon's unique registration information and embedded GPS coordinates to the closest search and rescue agency via the Cospas-Sarsat satellite system. The beacon also transmits a 121.5 MHz homing signal to assist search and rescue to pinpoint the aircraft's GPS location. The ELT 345 provides a quick-and-easy retrofit opportunity with flexible installation options. The ELT utilizes the same RF output using only one coax cable to transmit both 406 MHz and 121.5 MHz signals through the compact 15-inch whip antenna. The ELT's built-in navigational interface does not require aircraft power to operate—which results in lower installation costs—and the stainless steel mounting bracket supplied with the unit has a multiple hole mounting pattern to accommodate legacy footprints.
FAA TSO C126b approved. Furnished with 15 Inch Whip Antenna.

Compact Kit
USA ... P/N 11-18358..... --- International .. P/N 11-18359 ..... ---

Slim Kit
USA ... P/N 11-18356..... --- International .. P/N 11-18357 ..... ---

AV

PERSONAL LOCATOR BEACONS

ARTEX ELT 4000 GPS / 406 / 121.5

The ARTEX ELT 4000 is a transport-grade Emergency Locator Transmitter (ELT) that utilizes alkaline batteries. This innovative power source means that the ELT 4000 is completely exempt from FAA special condition requirements. ARTEX ELT 4000 cost of ownership benefits include a lower battery expense per cycle, no hazmat shipping and easy disposal. An integrated NAV interface (ARINC429) omits the requirement and expense of installing a separate NAV interface unit. The ARTEX ELT 4000 provides a quick-and-easy retrofit opportunity with flexible installation options such as a two-wire remote switch that does not require any aircraft power. ELT 4000 is TSO approved with Legacy Switch and Antenna Systems to facilitate retrofit. The mounting tray assembly matches the legacy ARTEX C and B Series ELT installation and thereby further reduces engineering costs.

Base Pack ..... P/N 11-16253 ..... ---
With Alkaline Battery Only ..... P/N 11-16255 ..... ---
With Blade Antenna/Remote ..... P/N 11-16257 ..... ---

ARTEX C406 ELT

Operates on the latest SAR frequency of 406.025 MHz & 121.5 243 MHz. Ready to connect to the Artex ELT NAV interface. Includes ELT transmitter, LiMnO2 5-year battery pack, mounting bracket, remote switch, horn/buzzer, coax cables, high speed blade antenna, installation hardware, and installation and operation manual. The C406-1 is approved for aircraft operating speeds up to Mach 1, and C406-2 is approved for speeds up to 350 knots. COSPAS/SARSAT, FAA TSO C126 & JTSO-2C126 Approved.

C406-1 ELT with 110-340 Blade Ant. U.S .. P/N 11-02984 ..... ---
C406-1 ELT with 110-340 Blade Ant. Intl.... P/N 11-09320 ..... ---
CC2 ELT with Rod Antenna ..... P/N 11-02985 ..... ---

ARTEX REPLACEMENT BATTERY ELT 110-6

Battery Pack - 110-6, 100 HM. Artex 110-6, ELT 100 HM, 2-year Alkaline Pack. TSO C91a Approval ..... P/N 11-17958 ..... ---

ARTEX 2-WIRE REMOTE INTERFACE SYSTEM

This product allows an upgrade to an Artex 5-Wire 406 MHz ELT using an existing 2-wire configuration. The 2-Wire Remote Interface allows two wires from the existing wiring harness to connect the cockpit remote switch to the ELT for simplified, cost-efficient installation.

P/N 11-07776 ..... ---

ARTEX ACCESSORIES

ARTEX WIRE WHIP ANTENNA

Black whip antenna with inductor. For use with 121.5 and 243 MHz. Designed for speeds up to 200 knots TAS

Specifications: • Frequency: 121.5, 243 MHz & • VSWR: 2.0:1 Max for 121.5/243 MHz • Polarization: Vertical • Height: 17.4" Max • Connector: RF Connector, BNC Series (female) • Temperature: -55˚ C to + 85˚ C • Altitude: 50,000 feet • Air Speed: 200 Knots TAS • Color: Black

P/N 110-324 ..... ---

ACR RESQLINK™ VIEW BUOYANT PLB WITH DIGITAL DISPLAY

Small but resilient, the ResQLink View has been professionally engineered and tested to ensure it can withstand even the harshest elements. This buoyant Personal Locator Beacon requires no subscription for use and includes a digital display providing live status and GPS coordinates. Whether on land, at sea, or in the air, trust that the ResQLink's satellite precision and military durability, puts rescue in the palm of your hands.

Features: • No Subscription Required • GPS and Galileo GNSS • Built-In Buoyancy • Strobe and Infrared Strobe • Global Coverage • MEOSAR Compatible • Small and lightweight • 5 year battery life • 28 hours Operational Life** • Multi-function Clip System Included • Exclusive ACR Skins included with purchase (customize your beacon and tailor it to your lifestyle and preferred activities) • **Based on test report from accredited laboratory.

P/N 11-17216 ..... ---

ACR RESQLINK™ 400 BUOYANT PLBS

Small but resilient, the ResQLink 400 has been professionally engineered and tested to ensure it can withstand even the harshest elements. This buoyant Personal Locator Beacon requires no subscription for use and can be utilized to enhance your safety in a wide variety of environments. Whether on land, at sea, or in the air, trust that the ResQLink's satellite precision and military durability, puts rescue in the palm of your hands.

Features: • No Subscription Required • GPS and Galileo GNSS • Built-In Buoyancy • Strobe and Infrared Strobe • Global Coverage • MEOSAR Compatible • Small and lightweight • 5 year battery life • 24+ hours Operational Life** • Multi-function Clip System Included • **Based on test report from accredited laboratory

USA ..... P/N 11-17215 ..... ---
International ..... P/N 11-17489 ..... ---

ACR RESQLINK™ VIEW RLS

Small but resilient, the ResQLink View RLS has been professionally engineered and tested to ensure it can withstand even the harshest elements. This buoyant Personal Locator Beacon requires no subscription for use, boasts a digital display providing live status and GPS coordinates, and includes the new Return Link Service (RLS) feature. Beacons with RLS provide confirmation to the user that their beacon's emergency distress message has been received and that their location has been detected. RLS works by sending a signal back through the Cospas Sarsat satellite network to confirm to the beacon user that the distress message from a beacon has been received and their location has been detected. User confirmation is distinctly indicated by a flashing blue light and a corresponding confirmation message on the digital display.

P/N 11-19372 ..... ---

ARTEX BNC CABLE - 15 ft female BNC to BNC coax cable for use with 406 ELT series.

P/N 11-08130 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

RESCUEME PLB1 PERSONAL LOCATOR BEACON

The rescueMe PLB1 can be operated with a single hand in even the most challenging situations. There are NO CHARGES to use the service. When activated the rescueME PLB1 transmits your position and your ID to a Rescue Coordination Center.

USA .....P/N 13-15036 ..... ---
Canada .....P/N 13-15492 ..... ---

SPOT X 2-WAY SATELLITE GPS MESSENGER WITH BLUETOOTH

SPOT X provides 2-way satellite messaging so you can stay connected to family, friends, and colleagues whenever you're outside of cellular range, including direct communication with Search & Rescue services in case of life-threatening emergency. SPOT X even provides you with your own personal mobile U.S. number so others can message you directly from their cell phone or other SMS devices at any time.

Features: • Illuminated QWERTY Keyboard • 2.7" Backlit Display • U.S. Mobile Number • Impact Resistant, Dust, & Waterpoof (IP67) • Rechargeable Lithium Battery ..... P/N 11-17560 ..... ---

SPOT 4 SATELLITE GPS MESSENGER

Important: Spot 4 can only be shipped within the USA and Canada. SPOT Gen4 lets family, friends, and colleagues know you are OK, or if the unexpected should happen by utilizing the Globalstar satellite network. SPOT Gen4 the latest in the line of SPOT rugged satellite GPS messengers, the SPOT Gen4 keeps you connected even when you're off-the-grid. Using the power of satellite technology SPOT works virtually anywhere in the world. Check in with your personal and professional networks, send custom messages and let others track your location in real-time via Google Maps™. In an emergency, transmit an SOS with your location to GEOS International Emergency Response Coordination Center.

Features: • S.O.S • Tracking • Check-In • Custom Message • Help/S.O.V.
Specifications: • Height: 3.48" (8.83 cm) • Width: 2.66" (6.76 cm) • Thickness: 0.93" (2.36 cm) • Weight: 5 oz (142 g) with Lithium Batteries .....P/N 11-18420 ..... ---

SPOT TRACE THEFT-ALERT TRACKING DEVICE

Using 100% satellite technology, SPOT Trace tracks your most valuable assets beyond the reach of cellular coverage, using your smart phone or computer. With SPOT Trace, receive text/email messages when movement is detected and select from 2 ½, 5, 10, 30 or 60 minute tracking intervals. SPOT Trace includes: multiple mounting and power options (including rechargeable batteries and line power) and a compact, durable, lightweight design. SPOT Trace is waterproof rated IPX7 and includes a dock mode option that is designed specifically for monitoring assets typically stored on the water. Affordable and easy to use, SPOT Trace is the ultimate theft-alert tracking device for your aircraft, watercrafts, automobiles, and other valuables.

P/N 11-12224 ..... ---

AIRBLY PHOENIX P200 AIRCRAFT MONITOR

When used with an Airbly P200 Aircraft Monitor, this crew tracker allows you to assign to each of your pilots and they will be added to the flight logs automatically when they are on board. All packages include one year of service. Additional years subject to new subscription fee.

Services: • Location tracking allows you to always know where your aircraft is and where it has been. • Automatic logbook generation creates a detailed log of each flight. • Maintenance tracking ensures your aircraft is maintained and airworthy. • Notifications alert you to maintenance or usage that may require your attention. • Reports summarize the usage of an aircraft. • SOS features lets other know there is a problem. • Simple API makes integration with other systems possible.

Integrations: • **Coflyt** - Coflyt® combines inspections and maintenance tracking, scheduling, and billing into a simple, mobile app to provide peace of mind for aircraft owners. Automate your aircraft management today. Airbly users can link their Phoenix Aircraft Monitor to Coflyt and automatically upload their flight data right into Coflyt, for faster, easier aircraft management tracking. • **Planelogix** - PLANELOGIX provides a regulatorily sound method to convert your paper aircraft maintenance logbooks to a living, searchable, and digital format. You can continue using paper in parallel, or stay entirely digital moving forward. Use our powerful maintenance tracking tools to quickly set up tracking items for your aircraft and its components. Share everything with your A&P/IA, track squawks, schedule maintenance, and more. Airbly users can link their Phoenix Aircraft Monitor to PLANELOGIX and automatically update the total TTAF, Hobbs, Tach, Landings, and Engine Cycles on their aircraft.

Specifications: • Size: 94x94x28mm (3.7x3.7x1.1 inches) • Weight: 200 grams (7 ounces) • Battery: 180 days standby or 100 flight hours per charge • Power: 10~30 VDC aircraft power or 5VDC micro USB • Sensors: GPS, gyroscope, accelerometer, temperature, and battery level
In The Box: • P200 Unit • Mounting brackets • USB charging kit • Pre-configured for your aircraft

Description	Part No.	Price
Lite No Tracking	10-07372	---
Lite ADS-B Tracking	10-07374	---
Lite Satellite Tracking	10-07373	---
Lite Satellite & ADS-B Tracking	10-07375	---
Basic No Tracking	10-07371	---
Unlimited No Tracking	10-07376	---
Unlimited ADS-B Tracking	10-07378	---
Unlimited Satellite Tracking	10-07377	---
Unlimited Satellite & ADS-B Tracking	10-07379	---

AIRBLY CREW TRACKER OPTION FOR P200 AIRCRAFT MONITOR

When used with an Airbly P200 Aircraft Monitor, this crew tracker allows you to assign to each of your pilots and they will be added to the flight logs automatically when they are on board.

Specifications: • Size: 42 x 26 x 10mm (1.6 x 1.0 x 0.4 inches) • Battery: 1 year, replaceable CR2032 coin cel.

P/N 10-07380 ..... ---

SHADIN AMS 2000 ALTITUDE MANAGEMENT AND ALERT SYSTEM

With a range of feature previously unavailable in general aviation, the Shadin Avionics AMS-2000 Altitude Management and Alert System brings advanced instrumentation to new levels of function and affordability. The Shadin Avionics AMS-2000 uses information from Mode-C altitude encoder to deliver: • Time-based Altitude Alerting, rather than fixed altitude buffers •Automatic calculation and display of Density Altitude • Real-time display of IVS without the inherent lag of your aircraft's static system • Calculation and display of Aircraft and Engine Performance • Percentage, at your demand • Made in the U.S.A., the AMS-2000 features a 12-month warranty. The AMS-2000 coupled with the Falcon Altitude Encoder provides all advanced altitude alert functions previously noted, plus the following high-resolution altitude management functions: • Time-based level-off warning sounded and displayed 15 seconds from target altitude--smooth capture is assured regardless of climb or descent rate • Digital display of altitude from -1000 to +62,000 feet in high resolution, 10-foot increments • Digital reading of Instantaneous Vertical Speed (IVS) • Deviation envelope is adjustable in 10 foot increments.

P/N 10-03711 ..... ---

STRIKEFINDER® DIGITAL WEATHER AVOIDANCE SYSTEM

Detects and analyzes the electrical activity emanating from thunderstorms within a 200 nautical mile (nm) radius of the aircraft. A unique graphic display plots an accurate, reliable and easily-interpreted picture of electrical activity, that you can use to circumnavigate the hazards associated with thunderstorms. Determines the bearing, range and severity of the activity. Strike data is plotted on the display as single orange dots by range and azimuth, in relation to the aircraft symbol ("heads up"). Must be installed by Advantage Avionics or another approved StrikeFinder dealer except for experimental aircraft.

Description	Part No.	Price
Strike Finder Standard System	11-00348	---
Strike Finder with LED Round Display	11-11283	---
Strike Finder with LED 3ATI Display and Clamp	11-11285	---
Strike Finder with LED Round Display with Gyro	11-11286	---
Strike Finder with LED 3ATI Display with Gyro	11-11287	---
Strike Finder with LED 3ATI Display with Gyro & Clamp	11-11288	---
Strike Finder Upgrade	11-00349	---
Strike Finder with Round Display Unit Only	11-14921	---
Strike Finder System with Round Display	11-16513	---
Strike Finder Display 3ATI Hole Rear Mount Unit Only	11-14922	---
Strike Finder Display 3ATI Front Mount Unit Only	11-14923	---
Strike Finder with 3ATI for Front Mount	11-16514	---
Sensor Unit with Mounting Kit	11-14924	---
Jet Systems Strike Finder System with 3ATI Display	11-16509	---
Gyro Heading Stablization Unit Upgrade Only	11-14926	---
Additional Harness Cable 4ft Increments	10-06715	---
Display Connector Kit Only	10-06717	---
Sensor Mounting Kit Only	10-06718	---
Sensor For Garmin /Apollo- Spine Mount B Format	10-06719	---
Garmin/Apollo Sensor- Fire Wall Mount Z Format	10-06720	---
Garmin/Apollo - Inline Mount - Z Format	10-06721	---
Sensor For Bendix King - Spine Mount- B Format	10-06722	---
Sensor For Bendix King - Fire Wall Mount - B Format	10-06723	---
Sensor For Bendix King - Inline Mount - B Format	10-06724	---

SPIDERTRACKS SPIDER X GLOBAL AVIATION TRACKING SYSTEM

Revolutionary hardware from Spidertracks - unlocking a new horizon of aircraft data insights, connectivity, safety, and efficiency.
Built in-house by Spidertracks, specifically for aviation, Spider X is a small, lightweight device with sleek curves and a black finish. The device seamlessly integrates with your aircraft using straightforward 'plug-and-play' technology.
A large SOS button is prominent and easy to press if required - alerting your specified contacts. Intelligently designed lighting allows for a distraction and glare free experience, while still conveying key status notifications
Easily mount Spider X on the cockpit glare shield, or out of sight with an external antenna and keypad.
Features: • Revolutionizing Flight Data Monitoring • Virtual FDR™ evolves: Digitizing the analogue • Spidertracks Is Just Getting Started.

P/N 11-18425 ..... ---

Accessories

Spider Mounting Bracket 3/5/6/8 ..... P/N 11-17477 ..... ---
Spider Mounting Bracket Spider X ..... P/N 11-18737 ..... ---
Power Lead - 2M - Spider 3/5..... P/N 11-18738 ..... ---
Power Lead - 5M - Spider 3/5..... P/N 11-18740 ..... ---
Power Lead - 2M - Spider 6/7/8..... P/N 11-17475 ..... ---
Power Lead - 5M - Spider 6/7/8..... P/N 11-17476 ..... ---
Power Lead - 2M - Spider X ..... P/N 11-18739 ..... ---
Power Lead - 5M - Spider X ..... P/N 11-18741 ..... ---

INSIGHT TAS 1000 AIR DATA COMPUTER WITH WINDICATOR

Today's modern avionics integrate many functions with your GPS, but standard installations leave many important features untapped. The TAS 1000 Multi-Function Data Source was specifically designed to supply all the information needed to fill in the missing pieces of your GPS or MFD display in real-time. TAS 1000 provides the pilot with a wealth of useful information all based on real time measurements of airspeed, altitude, temperature, fuel flow, heading, ground speed and track. Designed to interface with many brands of GPS, TAS 1000 unlock many previously hidden data pages in most GPS navigators, In addition to TAS 1000s in flight advisory function, TAS 1000 can also serve as a backup altimeter, airspeed indicator or fuel flow meter. The TAS 1000 is designed for use in any piston, turboprop, or jet aircraft and provides a full compliment of features when interfaced to a slaved compass system or HSI, fuel transducers, and compatible GPS system. TAS 1000 will deliver a useful subset of features even if all the interfaces are not available.
The Windicator is an integral part of the TAS1000 system. It presents a previously unavailable graphical display of the winds aloft in real time. The Windicator information alone is so useful that it makes the TAS 1000 installation worthwhile. TAS 1000 system options include an altitude encoder to provide altitude information to a transponder or GPS unit as well as alerting the pilot with overspeed, altitude, approach & altitude difference alerts.

MUST BE DEALER INSTALLED.

Part No.	Insight No.	Description	Price
11-00626	1000-001-P	TAS1000 System for Piston Engine Aircraft (Incl. 1 Windicator) 18,000ft. Alt- 250kt max. Front Mount.	---
11-00627	1000-001-T	TAS1000 for turbo-charged Piston & Turbo-prop aircraft (Incl.1 Windicator) 55,000ft. Alt-500kt max.	---
11-11535	1000-002-B	Windicator (replacement) Rear Mount.	---
11-00629	1000-003	Expansion Module (Alt. encoder, Alt. Serial-izer, & Overspeed warn.)	---
Fuel Injection - Fuel flow smart sensors for Piston Engine aircraft			
11-00630	1000-004-1	Spine Mount, 201, Fuel Injected	---
11-10414	1000-004-4	Spine Mount, 231, Gravity Fed	---
11-10412	1000-004-2	Firewall Mount, 201, Fuel Injected	---
11-10415	1000-004-5	Firewall Mount, 231, Gravity Fed	---
11-10413	1000-004-3	Inline Mount, 201, Fuel Injected	---
11-10416	1000-004-6	Inline Mount, 231, Gravity Fed	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GRAND RAPIDS HORIZON SPORT 10.1 EFIS SYSTEM

The Sport 10.1 puts a large, primary flight display with moving maps in your panel. Software options let you purchase what you need now, and expand later, without removing the EFIS from your panel. Built on more than two decades of avionics experience, and using the industry's only AHRS that can operate unaided, the Sport 10.1 provides primary flight functions, moving maps and engine pages which can be driven by any GRT EIS engine monitor. The Sport 10.1 even includes synthetic approach to any runway, and depiction of obstacles on the PFD screen.

Features:

• Synthetic Vision

The optional synthetic vision, with its 10 mile range, provides intuitive terrain awareness. This awareness is essential whey flying in mountainous areas, and also creates a natural sense of height above the ground, location, and direction of flight. 3-D way-points, obstacles and runways, make navigation simple and help protect you from the threat of towers.

• Split-Screens

Ten split-screen combinations are included, combining two or three views into one screen of the PFD, map and HSI, and engine monitoring. Information is clearly presented, making it practical to fly with a single screen and rarely touch a button. For dual screen installations the split-screens provide a single-screen reversionary mode suitable for IFR flight.

• VFR Friendly

Often the days we fly do not require constant monitoring of the airplanes attitude. Airspeed, altimeter, and a map are all we need, with the PFD attitude to back us up if conditions change. We love those days and so does the Sport 10.1. That is why we allow you to show airspeed and altimeter tapes on your moving map. The Sport 10.1 rounds everything out with wind and destination information.

The green arc shows where the airplane will be when it reaches a pre-selected altitude (ground level in this case). Extended centerlines make it easy to line up on the correct runway, and is essential at night.

• Obstacle Alerting

The greatest value of obstacle alerting occurs when you find yourself forced to fly under an overcast in less than desirable visibility. At times like this, it must be effortless to understand such threats. That is why we show your threats on the PFD and not just the map. We show you the threat in the exact place you will be looking-the PFD. They appear in the same location out the window as they appear on the screen. Simple, and potentially life saving.

Specifications:

• Internal AHRS and Air-Data simplify installation

• Safe-fly ADS-B 2020 compliant GPS/uAvionix echoESX may be mounted directly to the back of the Sport 10.1, making installation even simpler.

• Moving Map is included!

• GRT Safe-Touch

• Autopilot Ready

• Heads-Up Capable

Benefits:

• Situational Awareness without Synthetic Vision

• Display ADS-B Traffic and Weather

• Angle-of-Attack (AOA) Sensing/Stall Warning

• Basic or Comprehensive Engine Monitoring

• Connect and EIS for Comprehensive Engine Monitoring

• Engine Data with a Bonus

Model	Part No.	Description	Price
10.1-SPORT	11-17876	GRT Sport 10.1 EFIS	---
10.1-OPT-SYN	11-17877	GRT Sport 10.1 EFIS Synthetic Vision Option	---
10.1-OPT-VAP	11-17878	GRT Sport 10.1 EFIS Vertical Autopilot Option	---

GRAND RAPIDS HORIZON 10.1 EFIS SYSTEM

Note: Grand Rapids (GRT) avionics units are intended for experimental aircraft use only.

One look at the Horizon 10.1 and you sense the situational awareness provided by its large screen and wide field of view that reaches out 30 miles. You can select either a "six pack" representation of the primary flight instruments, with adjustable shading behind the gauges, or the standard PFD. On the standard PFD you will find pilot-selectable insets and split-screen views providing maps, traffic, engine monitoring, weather, traffic alerts, custom checklists, and even geo-referenced sectionals or en-route charts, keeping the PFD view unchanged so that your instrument scan remains unchanged.

Auto-pilot ready, ADS-B and remote avionic control capable. 10.1 Inch, High resolution (1280x800) IPS display. Internal AHRS/Air data included.

Features: • Primary Flight Display - On the PFD you will find pilot-selectable insets and split-screen views providing maps, traffic, engine monitoring, weather, traffic alerts, custom checklists, and even geo-referenced sectionals or en-route charts, keeping the PFD view unchanged so that your instrument scan remains unchanged.

• Split-Screen View for Single Display Systems - Insets are also complimented by a split-screen view. This a popular feature with single screen installations, providing generous size primary flight data, moving map and engine data, intelligently combined on one screen; practically eliminating the need to change your screen selection.

• Dedicated Remote Avionics Controls - The Horizon 10.1 expands your options by letting you remotely control as much or as little of your radio rack as you desire. The dedicated controls and simple operation makes this immensely practical, leaving your valuable panel space available for other uses. Remote up to 2 Com radios, 2 Nav radios, transponder, intercom, and audio panel. Panel mount radios can also be conveniently tuned. The Horizon 10.1 works with a variety of leading avionics manufacturers, so you will never be locked into one brand for your interfacing remote avionics. Remotes, such as the Trig TT22 transponder, can offer a cost savings by negating the need for a dedicated control head.

As with the HXr, the Horizon 10.1 allows you to use your Android device for extensive touch-screen menu tuning choices for you or your co-pilot.

• Sectionals, Airport Diagrams, En-route Charts, Approach Plates, and more - Sectionals, airport diagrams, en-route charts and approach plates can be displayed, with the airplane position geo-referenced on them. Sectionals and en-route charts are displayed with Horizon 10.1 generated airspace, obstacles, flight plans and traffic overlaid, so that alerting is not lost. Data for these functions is provided by Seattle Avionics. The Horizon 10.1 also includes a PDF viewer which allows you to display free approach plates, airport diagrams and other data provided by the FAA. (Geo-referencing is not provided).

Specifications:

• Internal AHRS and Air-Data simplifies installation and is included in the price! • Auto-pilot ready, ADS-B and remote avionic control capable. • 10.1 Inch, High resolution (1280x800) IPS display. • Our Safe-fly ADS-B 2020 compliant GPS/uAvionix echoESX may be mounted directly to the back of the Horizon 10.1, making installation even simpler. • Simple Operation • Turbulence Optimized • Real Redundancy • Autopilot Ready • Heads-Up Display • PFD Video with Overlay • Audio Alerts • Angle of Attack Sensing / Stall Warning • Control Radios & Flight Plans with Your Android Phone / Tablet • The Source of the Attitude

Model	Part No.	Description	Price
10.1-HORIZON	11-17871	GRT Horizon 10.1 EFIS	---
10.1-OPT-TOUCH	11-17872	GRT 10.1 EFIS Touch Screen Option 10.1-OPT-TOUCH	---
10.1-OPT-AOA	11-17873	GRT 10.1 EFIS AOA Option 10.1-OPT-AOA	---
10.1-OPT-DUAL-AHRS	11-17874	GRT 10.1 EFIS Dual Ahrs Option	---
10.1-OPT-IFR	11-17875	GRT 10.1 EFIS Internal IFR Approach Option	---

GRT EFIS SYSTEMS

GRT EIS SYSTEMS

For over 22 years, Grand Rapids Technologies' EIS engine monitor has proven itself in most every aircraft engine installation from the most basic 2-stroke engines to turbines. It can be used as a stand-alone system in aircraft without an EFIS display, or an integral part of a GRT Avionics "glass cockpit" EFIS graphical engine display. EIS provides critical engine data and warnings that could save your life. Basic packages come with wiring harnesses and engine probes recommended by the engine manufacturer, including CHT, EGT, and oil pressure/temperature if sensors do not normally come with the engine. Advanced packages include all of the Basic probes plus fuel flow, current sensor, and manifold pressure. Visit www.aircraftspruce.com for more information on packages and probes. Lifetime warranty for manufacturer defects.

Description	Model	Part No.	Price
Lyc/Cont. Package, 4-cylinder, Basic	EIS-4K-LYC-BAS-PKG	11-11745	---
Lyc/Cont Package, 4-cylinder, Advanced	EIS-4K-LYC-ADV-PKG	11-11746	---
Lyc/Cont. Package, 6-cylinder, Basic	EIS-6K-LYC-BAS-PKG	11-11748	---
Lyc/Cont Package, 6-cylinder, Advanced	EIS-6K-LYC-ADV-PKG	11-11749	---
Jabiru 2200 Package, Basic	EIS-4K-JAB-BAS-PKG	11-11751	---
Jabiru 2200 Package, Advanced	EIS-4K-JAB-ADV-PKG	11-11752	---
Jabiru 3300 Package, Basic	EIS-6K-JAB-BAS-PKG	11-11753	---
Jabiru 3300 Package, Advanced	EIS-6K-JAB-ADV-PKG	11-11754	---
Rotax 912/914 Package, Basic	EIS-4K-RTX-BAS-PKG	11-11755	---
Rotax 912/914 Package, Advanced	EIS-4K-RTX-ADV-PKG	11-11756	---
Viking Package, Basic	EIS-4K-VIK-BAS-PKG	11-11757	---
Viking Package, Advanced	EIS-4K-VIK-ADV-PKG	11-11758	---
UL Power Package, Basic	EIS-4K-ULP-BAS-PKG	11-11759	---
UL Power Package, Advanced	EIS-4K-ULP-ADV-PKG	11-11760	---
UL Advanced Package, 6 cylinder (Includes Basic + pulse FF)	EIS-6K-ULP-ADV-PKG0	11-16025	---
UL Basic Package, 6 cylinder (6 bayonet CHT, 4 EGT, 50-amp CS, OP, FP)	EIS-6K-ULP-BAS-PKG	11-16026	---
Corvair Package, Basic	EIS-6K-CORV-BAS-PKG	11-11761	---
Corvair Package, Advanced	EIS-6K-CORV-ADV-PKG	11-11762	---

GRT AVIONICS AUTOPILOT SERVOS

Digital CNC machined servos add autopilot functionality to any GRT Avionics EFIS System. Heading select, VOR/GPS tracking, ILS and GPS precision approach coupling*, climb/descent to selected altitude using preset IAS or VS*, automatic approach capture. Pitch servo torque sensing provides Trim Up/Trim Down indication. Clutchless design with shearble output arm provides fail-safe mechanical method of freeing flight controls in the unlikely event of servo jam. 12-29V. Standard torque suitable for RV & most 2-place kitplanes. High torque for 4-place aircraft. Specify aircraft type when ordering. *Standard a/p features on HX and HXr. Sport requires Vertical Commands software.

Description	Part No.	Price
Roll Servo, standard torque. 1.0 Amp, 2.25 lbs	11-09791	---
Pitch Servo, standard torque. 1.0 Amp, 2.25 lbs	11-09792	---
Roll Servo, high torque. 2.0 Amp, 2.25 lbs	11-11763	---
Pitch Servo, high torque 2.0 Amp, 2.25 lbs	11-11764	---
Servo Mount Kit- Specify type of aircraft	11-11767	---

GRT SENSORS AND PROBES & ACESSORIES

Description	Model	Part No.	Price
Small EGT probe fits exhaust pipes from 1-2" dia.	EGT-HCS-01	11-09535	---
Large EGT probe fits exhaust pipes from 1.5-2.5" dia.	EGT-HC-01	11-09533	---
8 mm compression-style EGT probe. Includes compression fitting.	EGT-CF-01	11-09534	---
Current sensor, +/- 100 AMP. Suitable for aicraft with 60 amp alternators.	CS-01	11-06276	---
Current Sensor +/- 50AMP. Suitable for aicraft with Rotax, Jabiru, and others with light duty charging systems.	CS-02	11-07224	---
Manifold pressure sensor, 0-51 in. Hg. For turbocharged engines.	MAP-02	11-09542	---
Bayonet-style CHT probe. Used mostly with Lycoming and Continental engines.	CHT-BAY-01	11-09538	---
Replacement threaded adapter for bayonet style CHT probes.	BHT-ADP-01	11-09539	---
Ring style CHT probe with 4 mm ring. Suitable for some Rotax installations.	CHT-04-01	11-11468	---
Ring style CHT probe with 10 mm ring. Suitable for Rotax 912/914 installations.	CHT-10-01	15-06432	---
Ring style CHT probe with 12 mm ring. Suitable for Jabiru installations.	CHT-12-01	11-11469	---
Ring style CHT probe with 14 mm ring. Suitable for many 2-stroke engines including Rotax & Zenoah	CHT-14-01	11-09537	---
Ring style CHT probe with 18 mm ring. Suitable for Continental engines without Bayonet CHT ports.	CHT-18-01	11-09536	---
Pressure Senders for oil & coolant Ranges from 0-80 PSI to 0-150 PSI	HPS-01	11-11470	---
Pressure Senders for oil & coolant Ranges from 0-80 PSI to 0-150 PSI	HPS-02	11-06423	---
Coolant pressure sender 0-28 PSI	LPS-02	11-09543	---
Fluid Temperature Probe - 1/8-27 threads	FT-1827-02	11-09540	---
Oil Temperature Probe - Lycoming & Continental. For use with older GRT EIS models.	FT-LC-01	11-09541	---
EIS Outside air temp probe. Wire to either EIS or EFIS.	OAT-02	15-05248	---
Oil Temperature Probe. Wire to either EIS or EIFS. Included with the EIFS system.	OAT-03	11-11227	---
Coolant pressure sender 0-28 PSI. Recommended for Carbureted Engines.	LPS-02	11-09543	---
0-100 PSI fuel pressure sender. Recommended for fuel injected engines.	HPS-SS-01	11-09545	---
Machined brass probe works with most carburetors except Bing.	CARB-01	11-06273	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

GRAND RAPIDS MINI BACKUP EFIS

A small, lightweight, economical VFR EFIS system for LSA and light kitplanes. An affordable, high-quality backup to our larger EFIS systems for IFR operations. A stand-alone autopilot and backup flight instrument all in one. As an IFR backup flight instrument, the Mini-X and Mini-AP can do what no other brand of backup display can do for GRT Horizon and Sport users: Serve as an auxiliary autopilot control head for GRT servos that maintains an independent source of control if the main display unit should fail. Utilize the same pilot interface as the popular Horizon and Sport series, meaning you will not have to remember a different brand's "buttonology" in an emergency.

GRT Mini EFIS Generation II ..... P/N 11-20349 ..... ---
GRT Mini AP EFIS ..... P/N 11-14251 ..... ---
GRT Mini X Moving Map HSI Software ..... P/N 11-14255 ..... ---
GRT Mini EFIS Series Internal Back Up Battery Option
P/N 11-14256 ..... ---
GRT Mini AP Arnic 429 Adapter ..... P/N 11-14258 ..... ---
GRT Mini EFIS Series AOA Option ..... P/N 11-14259 ..... ---
GRT Mini EFIS is USB Extension Cable ..... P/N 11-16029 ..... ---

GRT EFIS 2020 ADS-B COMPLIANT GPS

The GRT Safe-Fly is a 2020 ADS-B compliant GPS, allowing it to be used as the navigation source for your compatible ADS-B output. This full compliance with FAR 91.227 allows your ADS-B output to trigger the return of traffic data. This demanding standard requires a GPS that is reliable to better than one undetected failure per million hours, making it a natural as your navigation source for your GRT EFIS. Other benefits include triple isolated power inputs, making it easy to power it with primary, back up, and even a third power source. GRT designed the module to tolerate very high levels of electromagnetic interference (EMI), large power fluctuations, and vibration. No standby power is required. Even the case is machined from solid aluminum, protecting the Safe-Fly from further EMI and physical damage ..... P/N 11-16027 ..... ---

GRAND RAPIDS GRT REMOTE EIS ENGINE MONITOR PACKAGES

Note: Grand Rapids (GRT) avionics units are intended for experimental aircraft use only.

The EIS R66 Engine Monitor is a remote only version of our popular EIS engine monitor. Capable of monitoring up to six cylinders, the R66 includes a built-in manifold pressure sensor and has fuel flow monitoring capability (sensor required). All configuration is done through the EFIS display for a fast and easy set uo. Compatible with all current GRT Avionics EFIS systems (except Mini-B). Probes include exhaust gas temp (EGT), cylinder head temp (CHT), oil temp (OT), oil pressure (OP), current sensor (CS), fuel flow (FF), fuel pressure (FP), coolant temp (CT), manifold pressure (MAP).

Description	Part No.	Price
GRT Remote EIS 4 Cylinder Lycoming	11-17879	---
GRT Remote EIS 6 Cylinder Lycoming	11-17880	---
GRT Remote EIS 4 Cylinder Jabiru	11-17881	---
GRT Remote EIS 6 Cylinder Jabiru	11-17882	---
GRT Remote EIS 4 Cylinder Rotax 912 914	11-17883	---
GRT Remote EIS 4 Cylinder UI Power	11-17884	---
GRT Remote EIS 6 Cylinder UI Power	11-17885	---
GRT Remote EIS 6 Cylinder Covair	11-17886	---
GRT Remote EIS 4 Cylinder Viking	11-17887	---

GRAND RAPIDS SPORT EX EFIS

The Sport EX puts a Primary Flight Display EFIS in your panel at an unbeatable price. Software options let you purchase what you need now, and expand later, without removing the EX from your panel. Built on more than two decades of avionics experience, and using the industry's only AHRS that can operate unaided, the base model provides primary flight functions and engine pages which can be driven by any GRT EIS engine monitor. The base model even includes synthetic approach to any runway, and depiction of obstacles on the PFD screen.

Model No.	Description	Part No.	Price
EX7-SPORT-BAS-PKG3	Basic Package	11-16021	---
EX7-SPORT-ADV-PKG	Advanced Package	11-16023	---
EX7-SPORT-ADV-TOUCH-PKG	Advanced Touch Package	11-16024	---
EX7-SPORT	Display with AHRS / GPS / Antenna / Harness	11-16033	---
EX7-OPT-MAP	Moving Map Option	11-16034	---
EX7-OPT-SYN	Synthetic Vision Option	11-16035	---
EX7-OPT-3SERIAL	Additional 3 Serial Ports Option	11-16038	---
EX7-OPT-MAG	Digital Magnetometer Option	11-16039	---
EX7-OPT-ANALOG	Analog Input Option	11-16040	---
EX7-OPT-IFR-AP	IFR Autopilot Commands Option	11-16041	---
EX7-OPT-TOUCH	EFIS Touch Screen Option	11-16043	---

GRAND RAPIDS EIS ENGINE MONITORS

A complete engine monitoring system at an affordable price. The EIS Model 4000 starts with the most comprehensive EGT/CHT monitor available anywhere, and then adds every other engine monitoring function you need, and more! Utilizing a back-lit, sunlight readable display, the EIS provides user-programmable graphical and digital displays in a compact package. A host of other useful features and the scrutiny of the 62 alarms, add the final touches to make your flying a safe, satisfying, and enjoyable experience.

Description	Part No.	Price
M2000 2 Stroke Basic Monitoring Instrument Only	11-16045	---
M2004 4 Stroke Basic Monitoring Instrument Only	11-16046	---
M4000 4 Cyl Full Engine Monitoring Instrument Only	11-16047	---
M6000 6 Cyl Full Engine Monitoring Instrument Only	11-16048	---
M9000 9 Cyl Full Engine Monitoring Instrument Only	11-16049	---
M2000 For Powered Parachutes With 2 Stroke Engine	11-16051	---
M4000 For Powered Parachutes With 4 Stroke Engines	11-16052	---
M4000 For Powered Parachutes With Rotax 912/914 Engine	11-16054	---

GRAND RAPIDS ENGINE INFORMATION SYSTEM (EIS) FOR M14 9 CYLINDER RADIAL

A complete engine monitoring system at an affordable price. The EIS Model 4000 starts with the most comprehensive EGT/CHT monitor available anywhere, and then adds every other engine monitoring function you need, and more! Utilizing a back-lit, sunlight readable display, the EIS provides user-programmable graphical and digital displays in a compact package. A host of other useful features and the scrutiny of the 62 alarms, add the final touches to make your flying a safe, satisfying, and enjoyable experience. M14 9 Cylinder Radial. (9 EGT, 3 CHT, OT, OP, FP, FF, 0-51" MAP, 100A CS)

P/N 11-16060 ..... ---

AV

LAVERSAB PITOT STATIC TESTERS

LAVERSAB PITOT STATIC TESTER (NON-RVSM)

The Model 6200 is used to perform leak-checks and accuracy checks on the Pitot Static systems of non-RVSM aircraft. Accuracy checks are typically performed on altimeters, airspeed indicators and VSI's. The high accuracy of the Pitot output is ideally suited for checks at low airspeeds. The Model 6200 is equipped with a Remote unit which has a large sunlight-readable display and touch-screen. A redundant keypad is also included. An internal 8-hour battery (optional) makes the tester completely portable. The wide operating temperature (optional) makes it usable in any environment. The "Profiles" feature makes it very easy to use. Calibration is required only once a year. The 6200 is also WiFi-enabled. With these distinctive features, the Model 6200 is the ideal Pitot Static tester for helicopters and non-RVSM aircraft .....**P/N 12-04747**

LAVERSAB 6300 RVSM AUTOMATED PITOT STATIC TESTER

The Model 6300 is a versatile 2-channel RVSM Pitot Static Tester targeted for General Aviation; all Business Jets and Commercial Aircraft. It is used to perform leak-checks and accuracy checks on the Pitot Static systems of RVSM aircraft up to 690 knots & 60,000 ft. Accuracy checks are typically performed on altimeters, airspeed indicators and VSI's. The Model 6300 is equipped with a Remote unit with large keypad and display, a removable 8-hour battery (optional), wide operating temperature (optional), and "profiles" to accelerate testing. Calibration is required only once a year. The 6300 can be controlled by an iPad or other tablets.
The Model 6300 is approved for Boeing, Airbus, and most OEMs.
P/N 12-05169

LAVERSAB 6600-NG RVSM AUTOMATED PITOT STATIC TESTER (FOR SMARTPROBE™ AIRCRAFTS)

The Model 6600-NG Automated Tester is designed to test aircraft equipped with SmartProbes™. The tester has one Static output (Ps1), one Pitot output (Pt) and a third output (Ps2) which can be used to simulate either AOA (angle of attack) or AOS (angle of sideslip). Using the small and light-weight Remote, an operator can test the entire pitot and static system from the cockpit. The Model 6600-NG comes with a removable 8-hour battery (optional), wide operating temperature (optional), and "profiles" to accelerate testing. Calibration is required only once a year. The 6600-NG is also WiFi-enabled, which enables wireless remote control using an iPad or other tablets. The Model 6600-NG is approved for Embraer EJETS, Bombardier C-Series, Gulfstream, Honda Jet and most SmartProbe™ equipped aircraft.....**P/N 12-05173**

LAVERSAB UNIVERSAL PITOT STATIC ADAPTER

Laversab Universal Adapter for Pitot Static Testers. For most aircraft and helicopters. Customized adapters. Full adapter-kits for specific aircraft.
P/N 12-04751

ARTS 7000 AVIONICS RADIO TEST SYSTEM

Laversab is proud to introduce the multi-function, WiFi-enabled Avionics Radio Test System (ARTS). The ARTS-7000 is designed to meet all radio test systems requirements in one box. It can connect to a Laversab ADTS for integrated altitude monitoring. The ARTS-7000 is designed to reduce upfront costs, simplify aircraft testing, and cover all current & future radio test requirements.
With an intuitive user interface and quick setup, the ARTS-7000 cuts down test time, so your aircraft gets back in the air faster. The ARTS is user-configurable and easily expandable to include both current and future avionics. Standard capabilities include Radio Comm, Nav, DME, ELT, ATC, ADSB & TCAS. The ARTS-7000 is built to test any airborne platform– from General Aviation to Commercial Airliners – including helicopters and military applications.
• Service & Calibration Centers across the world • 4-DAY turn on calibrations • AOG Loaner Units available • Technical support & training INCLUDED • 3-YEAR standard warranty • FREE Operational SW Updates • Upgrades available to expand capabilities

Features:

- Multi-function capability in a single box
- Configurable to meet user-specific requirements – reduces cost
- Expandable within same system for additional functions
- Preset and user configurable test scenario and parameters
- Removable Battery to test aircraft anywhere
- Worldwide service and support
- Quick setup. Wireless control of testset
- Control with iPad or other tablet. Optional: Wired Remote Controller
- Downloadable software upgrades
- Secure Wi-Fi network generated by test set
- Easy export of stored results
- Transportable system with rugged enclosure
- Integrated self-test & fault-finding tools.
- Built in quick confidence check
- Integrates Mode S with Laversab ADTS for altimeter checks.
- Fully Integrated ILS and MKR scenario
- Automatic VOR scenario
- Fully Integrated DME and VOR scenario

Tester with Navcom.....**P/N 12-05437**
Tester with Pulse.....**P/N 12-05438**
Tester with Navcom & Pulse .....**P/N 12-05439**
Tcas Option .....**P/N 12-05440**
Uat Option .....**P/N 12-05441**
Shipping Case .....**P/N 12-05442**
Ipad Bundle .....**P/N 12-05443**

LAVERSAB PITOT STATIC HOSE KIT 2

Laversab Pitot Static Hose Kit 2. For connecting Models 6150, 6200, 6300 (all models) to aircraft with relatively small airframes.
Includes the following: • 4 each, #4 Hoses, 20 ft. length with #4 AN-female fittings on each end • 2 each, #3 Hoses, 2 ft. length with #3 AN-female fittings on each end • 2 each, Reducer #4 AN-male to #3 AN-male.
P/N 12-04752

CALL OUR SALES DEPARTMENT FOR PRICING! SEE COMPLETE LAVERSAB SELECTION ON OUR WEBSITE!

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SW AVIONICS V6 VHF AVIATION RADIO TRANSCEIVER

Based on the digital technology intruduced in the V10, the V6 provides the same powerful 6W transmitter and modulation system. Designed for 25Khz spacing with 8.33Khz compatible operation selectable, the dual scan receiver boasts the fastest scanning time which means no loss of reception quality during receive of the standby channel. 100 channel storage and channel operating mode compatible with the V10. Four place, dual circuit intercom system with full isolate. Each intercom microphone input has its own level control and VOGAD noise suppression system. Dual PTT inputs. Black box flight recorder audio output.....P/N 11-10464 ..... ---

MGL AVIONICS XTREME MINI EFIS

The XTreme EFIS is a mini-EFIS unit based on a 4.3" sunlight readable, wide viewing angle, high resolution LCD display. It integrates an SD card reader (for software updates and for flight data recorder), 5 function buttons, a rotary control and a basic GPS navigator (functions available in future firmware release). It can be connected to standard MGL Avionics AHRS sensors and RDAC (engine monitor) boxes. It also integrates a CAN Aerospace compatible communications interface that will be used with future versions of MGL Avionics sensors. Standard RS-232 ports are also available. The XTreme is designed to fit a standard 3 1/8" round instrument hole.....P/N 11-08757 ..... ---

MGL V16 VHF AVIATION RADIO TRANSCEIVER

The V16 Com Radio is the latest generation and a new family of RF products by MGL Avionics. Launched in 2018 in the US, the V16 is the first in a new ecosystem of Com Radios, Nav Radios and controllers. **Note**: This radio is non-TSO'd and is for use in Experimental and light-sport aircraft and aircraft not having a Type Certificate prohibiting the use of non-TSO'd radios and equipment. **Features**: Modular Design: The V16 is a split design remote-mount Com Radio that is controlled via a separate controller/EFIS.....P/N 11-16597 ..... ---

HIGH ACCURACY CURRENT SENSORS

The ME CS-6AB & ME CS-6CB is easy to install using just shrink tubing and zip-ties, and is compatible with any display device expecting 0-5v current sensor input. It is easy to calibrate using a simple process that yields exceptional accuracy. Basic version designed to be operated with Engine or Flight monitoring systems that provide 5 volts to supply external sensors and accept a 0-5v input with zero current being at 2.5 volts. No input voltage protection beyond 30v, wire with caution.
7-30V.....P/N 11-13992 ..... ---

ELECTRONIC CIRCUIT BREAKER MODULE ECB

The ECB module provides 8 electronic circuit breakers. All breakers have the same characteristics: DC current up to 10A (programmable via dipswitch profile selection) or via an external device. Suitable for 12V or 24V DC aircraft power systems. Highly reliable, fault tolerant design – continues to operate even in case of total internal electronics failure. Electronic Circuit Breaker Light & Switch Kit .....P/N 11-13635 ..... ---

MGL AVIONICS SERVO

MGL Avionics Servo with a generic hardware and pushrod kit.....P/N 11-10423 ..... ---

MGF SPORT MOUNT PANEL TILT & SWIVEL - FLUSH

The Sport Mount - Panel Flush is for pilots who want to mount any size iPad or Tablet in any size or type of case on their panel in an open instrument spot or other smooth surface. This mount comes with a Sport™ Adapter mounting system...P/N 13-12429 ..... ---

MGL WIFI GATEWAY

In addition to making flight planning easier on the iEFIS, the iEFIS Gateway adds another party trick in the way of wirelessly accepting information from GDL 90 compatible WiFi ADS-B Receivers like the Stratus 3 or Stratux, and repeating it to the iEFIS. This means that if you already have a device such as the echoUAT connected to your iEFIS, it's easy to replace that connection with the iEFIS Gateway, then connect the Gateway to the echoUAT via WiFi and enjoy the same capability as before with the added benefit of flight plan uploading.....P/N 11-19341 ..... ---

MGL ENIGMA MKIII

The "Enigma MKIII" is based on the iEFIS Discovery and shares its housing and large 7" high resolution screen. It has about the same outside dimensions as the original Enigma, but it is a completely different system. It will be fully self-contained (no iBox) and features a built-in Attitude Gyro. It provides two RS232 ports and a CAN-interface for connection to RDAC, compass and other devices. It contains a built-in GPS and full pitot/static sensors. The software is based on a simplified version of the iEFIS and is aimed at providing simple installation and simple operation. Only GPS navigation is supported. The Autopilot is included.
The Engima MKIII effectively fits between the XTreme mini EFIS and the iEFIS Discovery.

CALL OR VISIT OUR WEBSITE FOR DETAILS.

MGL IEFIS CHALLENGER 10.4 INCH TOUCHSCREEN

The iEFIS is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. Pressure sensitive, sunlight readable touchscreen that can also be operated using gloves. The pressure sensitive 10.4" touchscreen operates much like a tactile button preventing false activation when touching the screen in turbulent conditions. A simple but highly effective solution. The large amount of flexibility built into the base system allows the adaptation of the iEFIS to almost any mission and aircraft. The iEFIS screens can be completely edited by the user using a simple PC program to create any display the user desires. This makes the system absolutely the most customizable EFIS on the market today! Due to low system cost, the iEFIS is equally suited to light aircraft, gliders and rotorcraft, while providing enough flexibility to be utilized by multi-engine aircraft with up to 4 engines monitored, and by turbine aircraft and even spacecraft.....P/N 11-12044 ..... ---

MGL CHALLENGER LITE TOUCHSCREEN EFIS

The iEFIS Lite series from MGL Avionics is set to revolutionize the small airplane instrument panel. If just a single EFIS screen is required in your Experimental airplane, the iEFIS Lite offers everything needed. Features a bright non-reflective 10.4" touchscreen of around 2000+ nits.It looks, feels and operates just like a regular iEFIS, however it does not require the additional iBox and AHRS since pitot/static, GPS receiver, and attitude sensor are all built into the back of the screen. The iEFIS-Lite concept of the all-in-one EFIS is unmatched in the market. It has the same powerful G3 processor and runs the same firmware as the regular iEFIS system and has all of the same software features - just less external hardware complexity.The iEFIS-Lite has the fewest modules to install and the easiest installation in the homebuilt market. Like all our G3 iEFIS systems it comes with a World wide high resolution terrain database built in plus a World wide vector map. It is compatible with MGL's new "MapMaker 2" raster map format.
8.5 Screen .....P/N 11-16712 ..... ---
10.5 Screen .....P/N 11-16713 ..... ---

MGL XTREME EMS

The XTreme EMS is based on a 4.3" sunlight readable, wide viewing angle, high resolution LCD display. It integrates an SD card reader (for software updates and for engine data recorder), 5 function buttons, a rotary control. It can be connected to standard MGL Avionics RDAC (engine monitor) boxes (required). The XTreme EMS is designed to fit a standard 3 1/8" round instrument hole. The body is located off-center allowing the unit to replace instruments on the right side of a standard 6-pack configuration or any other location that currently occupies two instruments. Due to the light weight and very low mounting depth no complicated mounting brackets or trays are needed. Power use is low and operation from much less than 12V to around 28V is fully supported..... P/N 11-10393 ..... ---

MGL RAZOR TOUCHSCREEN VHF CONTROLLER

The Razor 3-1/8" VHF Touchscreen controller connects to the V16 Com for full touchscreen control. Connect any number of Razors (and Vegas) to your V16 Com radio. **Specifications**: • Panel Cutout Size: 3 1/8" Round • Display: Color 3.2" TFT Portrait Touchscreen Display • Control: Touchscreen and One Knob • Internal Communication: CAN Bus (to communicate with V16 and other Controllers) • Serial Port: For SL30/SL40 Communication (third party devices) • Ambient Light Sensor: Auto-Dimming • 2 Discrete Inputs: Recall last transmission and/or to select channels with HOTAS, and/or Remote Flip/Flop • On Screen Warnings: Stuck Mic, Antenna Mismatch..... P/N 11-16598 ..... ---

MGL VEGA VHF CONTROLLER

The Vega 2-1/4" VHF controller connects to the V16 Com for full control. Connect any number of Vega's (and Razors) to your V16 Com radio. **Specifications**: • Panel Cutout Size: 2 1/4" Round • Display: Color 1.8" TFT Display • Control: Two Knobsb • Internal Communication: CAN Bus (to communicate with V16 and other Controllers) • Serial Port: For SL30/SL40 Communication (third party devices) • Ambient Light Sensor: Auto-Dimming • 2 Discrete Inputs: Recall last transmission and/or to select channels with HOTAS, and/or Remote Flip/Flop • On Screen Warnings: Stuck Mic, Antenna Mismatch .....P/N 11-16599 ..... ---

AV

MGL AVIONICS

MGL IEFIS PACKAGES

About iEFIS Lite Series:
The iEFIS Lite series from MGL Avionics is set to revolutionize the small airplane instrument panel. If just a single EFIS screen is required in your Experimental airplane, the iEFIS Lite offers everything needed.The iEFIS Lite is a stand-alone system unlike our standard iEFIS systems where you can have multiple, joined panels in a complex infrastructure. The MGL Lite Series includes the Discovery-Lite 7", Explorer-Lite 8.5", and the Challenger-Lite 10.4", all with Touchscreen EFIS GPS Antenna.

About iEFIS Regular Series:
The iEFIS is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. It is the next generation EFIS system utilizing a custom developed, pressure sensitive, sunlight readable touchscreen that can also be operated using gloves. iEFIS combines the undeniable advantages of simplified operation that a touchscreen can offer with rich traditional controls that are equally indispensable in the cockpit environment. The pressure sensitive touchscreen operates much like a tactile button preventing false activation when touching the screen in turbulent conditions. The MGL Regular Series includes the iEFIS Explorer and Challenger.

Worksheet Steps	Description	Part No.	Price
Select iEFIS	Discovery-Lite	11-16867	---
	Explorer-Lite	11-16868	---
	Challenger-Lite	11-16869	---
Select Regular iEFIS	Explorer	11-16870	---
	Challenger	11-16871	---
Select Engine Monitoring	Lycoming (4-Cylinder)	11-16872	---
	Lycoming (6-Cylinder)	11-16873	---
Select V16 Radio	V16 & Razor (3 1/8")	11-16874	---
	V16 & Vega (2 1/4")	11-16875	---

IEFIS LITE WITH GPS ANTENNA PACKAGE INCLUDES
Description
iEFIS Discover-Lite, Explorer-Lite, or Challenger
SP-6 Advanced Magnetometer Sensor Package (Compass)
RDAC XF, 12 Thermocouple Channels
Harness- iEFIS-Lite Power/CAN/ RS-232 Harness
Harness, CAN Bus Harness Kit for Single Device
Harness- RDAC XF with CAN Bus
OAT Probe- Aluminum

IEFIS EXPLORER & CHALLENGER TOUCHSCREEN PACKAGE INCLUDES
Description
Regular IEFIS Explorer or Challenger
iBox Normal Speed ASI (30-250 mph)
SP-6 Advanced Magnetometer Sensor Package (Compass)
SP-7 Advanced Attitude Sensor Package (Horizon)
RDAC-XF MAP, 12 Thermocouple Channels & MAP
Harness- iBox CAN Bus Harness for iBox and 2 Devices
Harness- RDAC XF with CAN Bus

SELECTING AN ENGINE MONITORING PACKAGE INCLUDES	
Description	**Qty.**
Lycoming 4-Cylinder:	
CHT, bayonet-style 3/8"-24, Type-K	4
Type-K Thermocouple Extension Cable, per foot, with splice kits	20
Type-K EGT Thermocouple, Cramp-Type, Small 1 1/4" dia. Exhaust	4
Westach Oil Temp Sender 5/8-18 UNF Thread (Lyc/Cont.)	1
VDO 360-004 Oil Pressure Sender, 145 PSI, 1/8-27 NPT	1
FT-60 Red Cube Fuel Flow Transducer (0.6-70 GPH)	1
*Note: Never use RTV or similar sealants when installing fuel system components	
UMA T149-1 Tachometer pickup for Slick Mag	1
Description	**Qty.**
Lycoming 6-Cylinder:	
CHT, bayonet-style 3/8"-24, Type-K	6
Type-K Thermocouple Extension Cable, per foot, with splice kits	25
Type-K EGT Thermocouple, Cramp-Type, Small 1 1/4" dia. Exhaust	6
Westach Oil Temp Sender 5/8-18 UNF Thread (Lyc/Cont.)	1
VDO 360-004 Oil Pressure Sender, 145 PSI, 1/8-27 NPT	1
FT-60 Red Cube Fuel Flow Transducer (0.6-70 GPH)	1
*Note: Never use RTV or similar sealants when installing fuel system components	
UMA T149-1 Tachometer pickup for Slick Mag	1

V16 RADIO PACKAGES INCLUDE:
Description
V16 and Razor (3 1/8") or V16 and Vega (2 1/4")
V16 Remote 10 Watt VHF Aviation Transceiver (Compass)
Vega VHF Control Head (2 1/4" Display)
Harness-MGL V16 Com & Razor/Vega Control Head-Standard 2-place
RG 400 Coax Cable for V16/Sandia/EchoUAT, 1 BNC & 1 SMA-8ft
Harness-VHF Comm Antenna- Delta Pop Red Tall- Bent

MGL IEFIS EXPLORER

The Explorer EFIS introduces a custom developed touch pressure sensitive LCD screen aimed exclusively at the small aircraft application. With the ability to accurately measure contact force in all conditions, it becomes possible to utilize the user interface advantages of a touch screen even in turbulent flight.
Unlike conventional touch screen technology, MGL's "tap screen" can be used with gloves, is completely unaffected by sunlight and even uses a polarized anti reflective and anti glare film. The tap screen uses only high quality optical glass in its construction and thus has no negative effects on the image quality, even in difficult light conditions. The tap screen is further qualified for zero pressure conditions such as experienced in space and is not affected by sudden, large pressure changes.
Recognizing that some operations can never be fully replaced by a touch screen, the Explorer adds no less than 5 "clickable" rotary controls which assume functions depending on current need plus adds conventional, tactile buttons for quick access to often used functions regardless of what appears on the screen.

Description	Part No.	Price
MGL IEFIS Explorer 8.5" Touchscreen	11-10816	---
Accessories		
Description	**Part No.**	**Price**
MGL IBOX	11-10826	---
MGL IEFIS Explorer Harness Kit	11-10827	---
Ibox Harness for SP-6/SP-7	11-11230	---
Servo Harness for Two Devices	11-11231	---
RDAC XF with Can Bus Harness	11-11232	---
EI FT 60 Fuel Flow Transducer For < 350hp / Fuel Pump	10-01196	---
Westach Temp Probe 5/8-18 THD 1" Tip 4 Lead 399s9 Non TSO	10-01236	---
MGL CHT Bayonet 3/8"-24 TYPE K	11-05565	---
MGL EGT Thermocouple Clamp Small	11-07842	---
VDO Oil Pressure Sender 150PSI	11-08066	---
MGL Tach Pick Up For Slick Mag	11-08334	---
MGL SP-7 Stnd Atttitude Sensor	11-09743	---
MGL SP-6 Magnetometer Sensor	11-09744	---
MGL RDAC XF MAP 12 Thermocouple Channels With Map	11-10676	---

MGL RDAC OPTIONS			
RDAC-XF	MGL RDAC XF 12 Thermocouple Cannels	11-10674	---
RDAC-XF MAP	MGL RDAC XF 12 Thermocouple Cannels with Map	11-10676	---
RDAC-CAN	MGL RDAC for Rotax 912IS Engine	11-11296	---
AHRS ATTITUDE / HEADING SENSORS			
SP-6	SP-6 Magnetometer Sensor (Compass)	11-09744	---
SP-7	SP-7 Standard Attitude Sensor (Horizon)	11-09743	---
STRATOMASTER 2-1/4" INFINITY SINGLES			
ALT-1	Encoding Altimeter	11-15988	---
ASV-1	Encoding Altimeter / Airspeed Indicator	11-15990	---
STRATOMASTER 3-1/8" VELOCITY SINGLES			
ASV-2	Altimeter / Airspeed Indicator	11-16586	---
FF-5	Fuel Computer	11-16587	---
RPM-2	RPM Indicator	11-16591	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ILEVIL 3 SW

The next generation of iLevil is here! and it brings exciting features and capabilities. This portable tool combines the latest in GPS, AHRS, ADS-B, and Data Recording technology to bring pilots an affordable backup solution that is both Android and iOS compatible. The internal GPS and AHRS provides all the navigation information you need to turn your tablet into a real glass panel. The embedded dual band ADS-B receiver allows you to monitor weather radar, METARS, etc in addition to traffic information all at your fingertips AND without any subscription. The iLevil3 SW adds the Data Recording feature which allows you to insert a SD Card and record all of your flight data (position, airspeed, altitude, attitude, etc.) and display the information on various platforms. You have to option to preset your desired file recording format, depending on how you wish to use the data (.gpx,.fdr, or .csv). The SW model also has a large solar panel, outstanding ADS-B reception, enhanced GPS sensitivity and compatibility with your favorite apps making it our most popular product for General Aviation.....P/N 11-14492 ..... ---

LEVIL PORTABLE ATTITUDE INDICATOR ILEVIL 3 AW

A more advanced system designed for Experimental, Light Sport Aviation, Ultralights or anything else that flies, floats or hovers! The AW provides ADS-B weather and traffic information, GPS navigation, AHRS and Data Recording. Unlike the SW version, the iLevil AW can be used as a portable or permanent-mount instrument. It integrates static and dynamic pressure transducers which make available accurate indicated airspeed and pressure altitude obtained from the pitot static system, ultimately offering a “six-pack” solution displayed on a tablet. The iLevil AW facilitates installation with remote GPS and ADS-B antennas and power inputs for 12V and 28V systems. Compatibility with a wide range of Apps and mobile devices makes the AW the ideal all in-one solution for a wide variety of aircraft where weight, space and cost are important. Like the SW it can connect to as many as 7 devices simultaneously, providing redundancy and almost limitless panel display diversity. The iLevil 3 AW features 3 serial ports that can be used for data transfer between tablets and other avionics in the cockpit. The Data Recording feature allows you to insert a SD Card and record all of your flight data (position, airspeed, altitude, attitude, etc.) and display the information on various platforms. You have to option to preset your desired file recording format, depending on how you wish to use the data (.gpx, .fdr, or .csv).

P/N 11-14493 ..... ---

ILEVIL SPORT PORTABLE AHRS GPS

The Sport combines the latest in GPS and AHRS technology to bring pilots an affordable backup solution that is both Android and iOS compatible. The battery lasts up to 8 hours when fully charged and the solar panels will increase the battery life up to 12 hours on a bright sunny day. The iLevil Sport utilizes WiFi technology to sync as many devices as you want simultaneously! The integrated serial port is designed to relay information from external devices such as the NavWorx ADS600-B ADS-B transceiver, providing certified GPS, Weather and Traffic information to your mobile devices on top of back-up AHRS. Take it from airplane to airplane or leave it installed, the iLevil Sport will provide peace on mind on every flight!

Note: The iLevil Sport does not have an on-board ADS-B receiver.

P/N 11-12462 ..... ---

LEVIL BOM WITH ADS-B STANDARD TURBINE 100-210 KNOTS

The BOM Broadcasting Outer Module is a wireless aerodynamic pod that mounts underneath the wing of an aircraft. The BOM measures angle of attack, indicated airspeed, WAAS GPS, AHRS, ADS-B in, and data recording. It provides an affordable solution with the peace of mind to safely overcome any instrument malfunction or related emergency. It’s also an affordable way to modernize a vintage aircraft without using a single wire. Compatible with iOS and Android platforms (iPad and strut mount not included).

Features: • Angle of Attack (AOA) • Heated Pitot Static for indicated airspeed • WAAS GPS • High-performance AHRS and solid-state technology • ADS-B In Receiver for weather and traffic • Self-powered and self-charging system • Wireless Platform offering iOS/Android compatibility • Automatically power on/off with the vibration of the engine • Small and lightweight • Records flight date with SD card.

In The Box: • Wireless Broadcasting Outer Module unit • USB to mini USB cable • Mounting Brackets • Bracket screws • Protector case with Magnetic Switch • Remove Before Flight flag • NORSEE papers • Micro SD card

With ADS-B In .....P/N 11-19461 ..... ---

Without ADS-B In .....P/N 11-19537 ..... ---

LEVIL BOM WITH ADS-B STANDARD TURBINE 60 - 100 KNOTS

The BOM Broadcasting Outer Module is a wireless aerodynamic pod that mounts underneath the wing of an aircraft. The BOM measures angle of attack, indicated airspeed, WAAS GPS, AHRS, ADS-B in, and data recording. It provides an affordable solution with the peace of mind to safely overcome any instrument malfunction or related emergency. It’s also an affordable way to modernize a vintage aircraft without using a single wire. Compatible with iOS and Android platforms (iPad and strut mount not included).

Features: • Angle of Attack (AOA) • Heated Pitot Static for indicated airspeed • WAAS GPS • High-performance AHRS and solid-state technology • ADS-B In Receiver for weather and traffic • Self-powered and self-charging system • Wireless Platform offering iOS/Android compatibility • Automatically power on/off with the vibration of the engine • Small and lightweight • Records flight date with SD card.

In The Box: • Wireless Broadcasting Outer Module unit • USB to mini USB cable • Mounting Brackets • Bracket screws • Protector case with Magnetic Switch • Remove Before Flight flag • NORSEE papers • Micro SD card

With ADS-B In .....P/N 11-19536 ..... ---

Without ADS-B In .....P/N 11-19462 ..... ---

MYPILOTPRO MOUNTS FOR GOPRO CAMERAS

PIVOT MOUNT

MyPilotPro is perfect for any private pilot or student pilot who wants to relive their flying experience on a GoPro. The mount will attach to any aircraft's rear or wing tie down. A 3-way pivot arm is included to compensate for the wing dihedral angle. Compatible with all GoPro cameras. Made in the USA.....P/N 13-18886 ..... ---

SWIVEL MOUNT

MyPilotPro Swivel teamed up with RAM Mounts to deliver the best and most versatile GoPro aviation mount in the industry! MyPilotPro Swivel allows your GoPro to articulate in any direction or angle. Attaching MyPilotPro Swivel to your airplane tie downs is simple, secure, and doesn't require any tools. It is compatible with all GoPro cameras. Made in the USA .....P/N 13-18888 ..... ---

SPIDER MOUNT

MyPilotPro Spider is a small footprint and effective design allows you to attach it to any non-porous surface inside the cockpit. The Spider mount is perfect for straight forward filming from the windshield! Attaching the Spider mount could not be easier, just simply put it where you want and push on the top of each suction cup. The suction cups are rated to hold more than 7 times the weight of a GoPro camera, GoPro camera case, and the mount combined! Once you mount the Spider, it's there to stay until you release the suction by pulling on the tabs. The Spider is compatible with all GoPro cameras. Made in the USA.

P/N 13-18889 ..... ---

MYPILOTPRO HELICOPTER GOPRO MOUNT

The MyPilotPro Helicopter GoPro mount is designed to stand up to harsh conditions helicopters experience during flight including high G-force and extreme weather. They come in 4 sizes from 0.5″ diameter all the way through 2.5″ diameter. You can attach them to a wide range of tubular structure on your helicopter from the landing skids down to the smallest tube.

Size	Part Number	Price
Small	13-24035	---
Medium	13-24038	---
Large	13-24039	---
Extra Large	13-24040	---

FLIGHTCAM360 4CH VIDEO FLIGHT RECORDER

4ch Digital Video Flight Recorder with Audio and optional GPS, Wifi, or WCDMA. All Audio/Video is captured to an SD card (128Gb max) at D1 max resolution (720x480@30fps). Each camera (4 max) has it's own associated SD card. Audio is captured from the intercom panel with a supplied audio cable. The Flight recorder can output video in single channel or quad style format to any NTSC/PAL type monitor for live viewing. Most EFIS units today accept this type of video format as an input. The flight recorder can be configured to record with aircraft power applied, motion activation, or alarm triggers. This is a compact rugged package that makes it convenient for evidence collection activities, training system, or reliable scenic video capture package.

Description	Part Number	Price
with GPS	11-14284	---
with WiFi or 3G WCDMA	11-14285	---

FLIGHTCAM360 VIDEO FLIGHT RECORDER POD CAMERA

FlightCam360 Video Flight Recorder Pod Camera. • Sony color ccd 700 scan-line optics • Waterproof • 12v operation (power regulation needed) • Aerodynamic aluminum POD mount • POD mount has internal eyeball style swivel capabilities • Camera features interchangeable lenses to provide different FOV and depth of field.

P/N 11-14286 ..... ---

VISIT OUR WEBSITE FOR MORE NFLIGHT ACCESSORIES.

SPIDER SWIVEL MOUNT

MyPilotPro Spider Swivel is the ultimate cockpit GoPro mount! It articulates in any angle and direction to record your GoPro aviation footage. It's small footprint and effective design allows you to attach it to any non-porous surface inside the cockpit. Attaching the Spider Swivel mount could not be easier, just simply put it where you want and push on the top of each suction cup. The suction cups are rated to hold 5 times the weight of a GoPro camera, GoPro camera case, and the mount combined! Once you mount the Spider Swivel, it's there to stay until you release the suction by pulling on the tabs. The Spider Swivel is compatible with all GoPro cameras. Made in the USA.

Features:

• Mount is made of high strength phenol resins • Stainless steel hardware • Suction cups rated to 3 lbs • Length 3.75" between tips of suction cups • Width 3.75" between tips of suction cups • Height 4.5" • Weight 4.7 oz (including all hardware) • Not designed for exterior aircraft use.....P/N 13-18890 ..... ---

MPP ROBINSON HELICOPTER GOPRO SKID MOUNT

MPP's Robinson GoPro Skid Mount is modeled after MPP's very popular fixed wing Swivel mount design and is made to withstand the harsh conditions helicopters experience during flight including high G-force and extreme weather. The mount attaches to the ground wheel assembly which gives you a great perspective in your video footage!. We are proud authorized partners of Ram Mounts® and we use some of their components on MPP's GoPro Helicopter mounts which allow you to point your camera in virtually any angle and direction.

P/N 13-24034 ..... ---

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Please view our website for current prices.

FLIGHTCAM360 BLIND SPOT ELIMINATOR

• Aircraft Camera • 4 Camera Views • Flightcam360 Blind Spot Eliminator, Great for Tail Dragger type airplanes, Can be placed anywhere on the aircraft to increase visibility • Blind Spot Eliminator

Package Contents: • 4" Color LCD Monitor (1) • 12Volt Input Wire Harness (1) • Sony 550 CCD Color Camera (1) • RAM ball and socket camera mount (2) • Note: Video recording can be added separately.

P/N 11-08138 ..... ---

FLIGHTCAM360 VIDEO DATA SYNCH BOX

Package Contents: • Data Acquisition Box (1) • Wire harness (1) • GPS Receiver Puck (1) -Air Speed -Altitude -Heading -Location Option: - Garmin Data Port Cable - GPS receive puck. 12-32v input. Rugged aluminum housing construction. Simple 3 button design. Automatic real-time GPS data overlay on to composite video stream. Less than 1amp power draw. RCA style video input/output

Note: The video data synch box can be added to any standard composite video recording system.

P/N 11-08137 ..... ---

NFLIGHTCAM STRUT CLAMP MOUNT

Mount your GoPro, Garmin, or any action camera with a 3-finger (GoPro-style) mount or 1/4"x20 threaded socket to almost any aircraft strut in seconds. This strut clamp will fit anything from a J3 Cub to a Cessna Caravan. Quickly and securely attach your camera by adjusting the clamp to the size of your strut and securing it with the included UV-resistant polyurethane strap. This is not your normal rubber strap; We partnered with long-time outdoor equipment manufacturer, Voile, to produce an extremely tough rubber strap that will not degrade over time.

Specifications:

- Material: 18-8 stainless steel and 6061-T6 aircraft-grade aluminum, milled and anodized
- Maximum Demonstrated Speed: 250mph

Compatibility:

- GoPro, Garmin, Sony, Nikon, FlyCam360, and most other action cameras with a 3-finger or 1/4"x20 mount
- Not compatible with RAM mount products
- Camera not included .....P/N 11-14878 ..... ---

RADIANT INSTRUMENTS TAXI CAMERA SYSTEM

Radiant previews its new Taxi Camera, which includes a daylight brilliant high resolution 7" LCD display which folds into a case, and a flush mount camera.

When taxiing a taildragger aircraft, it provides excellent vision of what the pilot often can't see: what's straight in front of him. When in the air, bonus features appear. It provides a visual horizon, along with red cross hairs that help point directly to an intended touch-down spot.

P/N 10-07718 ..... ---

RADIANT INSTRUMENTS ACTION CAMERA MOUNTS

Radiant produces Action Camera Mounts for Cessna, Tri-Pacer, and Piper Cub aircraft. They provide an exacting fit to aircraft lift struts, allowing a stronger and stiffer camera mount.

The mounts conform to the lift strut and are attached with special heat stabilized black nylon tie wraps. The mounts as pictured are on a Cessna. The other mounts are very similar. These mounts come unpainted (black color) and may be painted with any plastic compatible paint **Note: Camera not included.**

Cessna Strut.....P/N 10-07719 ..... ---
Piper Strut.....P/N 10-07720 ..... ---
Tri-Pacer.....P/N 10-07723 ..... ---

STRUT CAMERA MOUNT FOR CESSNA

The W3 Camera Mount by Cloudbase Engineering has been specifically designed to mount industry standard action cameras to the wingstrut on General Aviation aircraft. In addition to aircraft, The W3 Mount can also be reconfigured to attach to tubular structures between 1.13" and 2.80" in diameter. Not FAA Approved. W3 Cessna Strut Camera Mount with 7" long strap: 140a 150 152 170 172 175 & Glasair Sportsman

P/N 13-14981 ..... ---

W3 Cessna Strut Camera Mount with 7.5" long strap: 180 &182

P/N 13-14982 ..... ---

W3 Cessna Strut Camera Mount with 9.25" long strap: 185 205 206 210

P/N 13-14983 ..... ---

ROCK STEADY UNIVERSAL WING STRUT MOUNT AND RUBBER STRAP

The Rock Steady GoPro style ball mount is the durable and versatile low profile design that you have been looking for. This quality all metal mount will not move, bend, or fail, unlike plastic mounts. The metal GoPro adapter is compatible with any GoPro style camera. This unique Gopro adapter allows over 180 degrees of adjustment unlike most GoPro fork tripod adapters. The knuckle clamp attaches to any Rock Steady base allowing 360 degrees of adjustment. The knuckle locks your camera into any position with a hex wrench, or by hand with an included T-handle screw. Buy multiple Rock Steady bases to add numerous quick change mounting locations at an affordable price. Compatible with GoPro, Hero 2, Hero 3 & 3+, Hero 4, Hero 5 and Garmin Virb X and Virb XE or any Go Pro style camera. The Rock Steady Universal Strut Base is a quality all metal machined aluminum base. The strut base fits any size aircraft spreader bar, bi-plane strut, or wing strut from a J-3 to a Caravan. The simple clean design straps firmly to your wing strut without using bulky blocks or bolts. The Rubber Strap Kit uses a 19″ universal rubber strap that fits most any strut. With adjustment holes every 1.25 inches, you simply start on a hole that gives you just enough strap to reach around the strut and tighten on the end. The temporary strap allows your camera mount to be quickly taken on and off any strut. FAA friendly temporary.

P/N 11-15324 ..... ---

ROCK STEADY TIE DOWN GOPRO BALL MOUNT

The Rock Steady GoPro style ball mount is the durable and versatile low-profile design that you have been looking for. Unlike plastic mounts, this quality all-metal mount will not move, bend, or fail. The metal GoPro adapter is compatible with any GoPro-style camera. This unique GoPro adapter allows more motion than any other GoPro adapter. The knuckle clamp attaches to any Rock Steady base. The ball and socket adjust a full 360 degrees and then lock your camera into position with a clean hex drive screw or by hand with an included T-handle screw. Buy multiple Rock Steady bases to add numerous quick-change mounting locations at an affordable price. Compatible with all GoPro cameras, Garmin Virb XE, Ultra 30, Virb 360, or any GoPro-style camera.

P/N 11-20201 ..... ---

WINGIT MOUNT FOR CESSNAS

WingItMounts™ have take photography to a higher level by mounting cameras to wing strut and taking unique and exciting views of flights. Holding up to three Gopro cameras, you will be able to capture your flights form unique and exciting views all at the same time. Milled from Aircraft grade aluminum all WingItMounts™ are made to the highest quality materials. No screws or fasteners are needed to attached the WingItMounts™ WIMGP-01 to your airplane. Applications: Cessna: C-150, C-152, C-170, C-172, C-180 or C-182. Camera not included.

P/N 11-11472 ..... ---

FLIGHTFLIX CAMERA MOUNTS

FLIGHTFLIX ROCK STEADY SLIM GOPRO CLAMP MOUNT

Features: • Sleek & Slim all metal design for GoPro & Garmin cameras. • Clamp to any tubing or channel from 1/2″ to 1″ diameter. • Attach to air frames, ATV, cylce, and UTV. • 360° camera adjustability, plus full swing gopro adapter. • Standard 1/4-20″ sockets. Split blocks and use with U-bolts too

P/N 11-19773 ..... ---

FLIGHTFLIX ROCK STEADY TIE DOWN STANDARD THREADED BALL MOUNT

Features: • Versatile all metal ball mount for standard 1/4-20 cameras. • Limitless adjustment ball and socket. • Quickly turn any standard tie down ring into a camera mount. • Allows quick attachment to any standard tie down ring. • Most Cessna, Piper, and Beech tie down rings. • Standard 1/4-20 Ball Mount

P/N 11-19783 ..... ---

FLIGHTFLIX ROCK STEADY SURFACE STANDARD THREADED BALL MOUNT

Features: • Versatile all metal ball mount for standard 1/4-20 cameras. • Limitless adjustment ball and socket. • Stable wide base for wing tips, inspection covers, or any mostly flat surface. • Mount your camera anywhere you have fasteners 2 to 5 inches apart. • Standard 1/4-20 Ball Mount

P/N 11-19781 ..... ---

FLIGHTFLIX ROCK STEADY SINGLE POINT STANDARD THREADED BALL MOUNT

Features: • Versatile all metal ball mount for standard 1/4-20 cameras. • Limitless adjustment ball and socket. • Includes single point dovetail base to attach with any #8, #10, or 1/4″ fastener. • Standard 1/4-20 Ball Mount.....P/N 11-19780 ..... ---

FLIGHTFLIX ROCK STEADY STRUT/SKID STANDARD BALL MOUNT WITH POLY UV STRAP

Features: • Versatile all metal ball mount for standard 1/4-20 cameras. • Limitless adjustment ball and socket. • All aluminum billet strut base with strong poly UV resistant strap. • Great for the person flying a variety of aircraft. • Universally fits any size strut from a J-3 to a Caravan. • Standard 1/4-20 Ball Mount

P/N 11-19787 ..... ---

FLIGHTFLIX ROCK STEADY STRUT/SKID STANDARD BALL MOUNT AND STEEL STRAP

Features: • Versatile all metal ball mount for standard 1/4-20 cameras. • Limitless adjustment ball and socket. • All aluminum billet strut base with cushioned steel strap. • Stainless metal strap with a rubber anti-chafe cover. • Universally fits any size strut from a J-3 to a Caravan. • FAA friendly temporary and FAA approvals available. • Standard 1/4-20 Ball Mount.....P/N 11-19788 ..... ---

FLIGHTFLIX ROCK STEADY STRUT/SKID STANDARD BALL MOUNT (NO STRAP)

Features: • Versatile all metal ball mount for standard 1/4-20 cameras. • Limitless adjustment ball and socket. • Any size aircraft spreader bar, bi-plane strut, or wing strut from a J-3 to a Caravan. • Use gaffers tape, electrical tape, or your own strap. • FAA friendly temporary. • Standard 1/4-20 Ball Mount

P/N 11-19786 ..... ---

FLIGHTFLIX ROCK STEADY SINGLE POINT GOPRO BALL MOUNT

Features: • Versatile all metal Gopro ball mount for GoPro & Garmin cameras. • Unique GoPro adapter with over 180 degrees of swivel. • Limitless adjustment ball and socket. • Includes single point dovetail base to attach with any #8, #10, or 1/4″ fastener.

P/N 11-19775 ..... ---

FLIGHTFLIX ROCK STEADY STRUT/SKID GOPRO BALL MOUNT (NO STRAP)

Features: • Versatile all metal ball mount for GoPro & Garmin cameras. • Unique GoPro adapter with over 180 degrees of swivel. • Limitless adjustment ball and socket. • Any size aircraft spreader bar, bi-plane strut, or wing strut from a J-3 to a Caravan. • Use gaffers tape, electrical tape, or your own strap. • FAA friendly temporary

P/N 11-19778 ..... ---

FLIGHTFLIX RS SLIM GOPRO CIRRUS O2 PORT CPC MOUNT

Features: • Sleek all metal design for GoPro style cameras.

Low profile design keeps camera out of the way • 360 degree adjustability. • Mounts to Cirrus CPC oxygen ports. .....P/N 11-19778 ..... ---

FLIGHTFLIX ROCK STEADY LITE COCKPIT BUNDLE FOR GOPRO HERO 8

Features: Rock Steady Audio Cable & GoPro Mic Adapter • All Metal GoPro Safe Case • Replacement Battery Door. Secures battery and SD card while in use. Easy snap on installation

P/N 11-20514 .....

FLIGHTFLIX ROCK STEADY SURFACE GOPRO BALL MOUNT

The Rock Steady GoPro style ball mount is the durable and versatile low profile design that you have been looking for. Unlike plastic mounts, this quality all metal mount will not move, bend, or fail. The metal GoPro adapter is compatible with any GoPro-style camera. This unique Gopro adapter allows more motion than any other Gopro adapter. The knuckle clamp attaches to any Rock Steady base. The ball and socket adjust a full 360 degrees, and then lock your camera into position with a clean hex drive screw, or by hand with an included T-handle screw. Buy multiple Rock Steady bases to add numerous quick-change mounting locations at an affordable price. Compatible with All GoPro cameras, Garmin Virb XE, Ultra 30, Virb 360, or any GoPro-style camera. P/N 11-20202 ..... ---

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FLIGHTFLIX CAMERA MOUNTS

FLIGHTFLIX ROCK STEADY SLIM GOPRO HANDLE MOUNT

Features: • Sleek & Slim all metal design for GoPro & Garmin cameras. • Mounts to any fuselage handle on tube and fabric aircraft. • Universal fits Cub, Champ, Husky, Pitts, Decathalon, etc. • 360 degree camera adjustability, plus full swing gopro adapter. • 6″ aluminum bars w/numerous hole options.

P/N 11-19774 ..... ---

FLIGHTFLIX ROCK STEADY STRUT BALL MOUNT FOR 360 CAMERAS

Features: • All aluminum parts are built with stainless steel hardware • 12" extended mount for your Insta360, GoPro Max, or other 360 camera • Ability to get a 360 camera the extra distance forward of the win • Everything you need to attach this mount to your wing strut and secure your camera over 12″ away from your aircraft. P/N 11-19779 ..... ---

FLIGHTFLIX ROCK STEADY ROBBY RIB STANDARD THREADED BALL MOUNT

Features: • Versatile all metal ball mount for standard 1/4-20 cameras. • Limitless adjustment ball and socket. • Robinson Rib Clamp Base fits the window center rib channel. • Fits any Robby R22, R44, or R66 Helicopter. • Clamps to 3/4″ tubing such as in Husky and Cub interior frame tubing. • Standard 1/4-20 Ball Mount

P/N 11-19784 ..... ---

FLIGHTFLIX ROCK STEADY ROBBY CLAMP GOPRO BALL MOUNT

Features: • Versatile all metal Gopro ball mount for GoPro & Garmin cameras. • Unique GoPro adapter with over 180 degrees of swivel. • Limitless adjustment ball and socket. • Robinson Rib Clamp Base fits the window center rib channel. • Fits any Robby R22, R44, or R66 Helicopter. • Clamps to 3/4″ tubing such as in Husky and Cub interior frame tubing.

P/N 11-19776 ..... ---

FLIGHTFLIX METAL GOPRO SAFE CASE MAX

Features: • Never lose your GoPro from a case failure again

• All aluminum GoPro housing is safe and secure. • Attaches to all Rock Steady camera mounts with 1/4-20″ or the included metal • GoPro adapter • FAA approvals available • Fits the Hero. .....P/N 11-19794 ..... ---

FLIGHTFLIX METAL GOPRO SAFE CASE HERO WITH PROP FILTER

Features: • Never lose your GoPro from a case failure again. • All aluminum GoPro housing is safe and secure. • Attaches to all Rock Steady camera mounts with 1/4-20″ or the included metal • GoPro adapter. • FAA approvals available.

Fits the Hero. Hero 5/6/7 .....P/N 11-19789 ..... ---
Hero 8.....P/N 11-19791 ..... ---
Hero 9/10/11/12.....P/N 11-19793 ..... ---

FLGHTFLIX ROCK STEADY HANDLE STANDARD THREADED BALL MOUNT

Features: • Versatile all metal ball mount for standard 1/4-20 cameras. • Limitless adjustment ball and socket. • Turn any tail fuselage handle into a Rock Steady camera mount. • Fits any Cub, Champ, Husky, and other tube & fabric aircraft. • FAA friendly temporary use by hand without tools. • Compatible with all Rock Steady mounts. Standard 1/4-20 Ball Mount

P/N 11-19785 ..... ---

FLIGHTFLIX METAL GOPRO SAFE CASE HERO

Features: • Never lose your GoPro from a case failure again. • All aluminum GoPro housing is safe and secure. • Attaches to all Rock Steady camera mounts with the included metal GoPro adapter. • FAA approvals available.

Fits the Hero Hero 8 .....P/N 11-19790 ..... ---
Hero 9/10/11/12.....P/N 11-19792 ..... ---

FLIGHTFLIX ROCK STEADY GOPRO TIE DOWN MOUNT

Features: • Sleek & Slim all metal design for GoPro & Garmin cameras. • Mount to any aircraft tie down ring. • Fasten to any ATV, UTV, cycle, or car frame. • 360 degree camera adjustability, plus full swing GoPro adapter. • FAA friendly temporary.

P/N 11-20204 ..... ---

FLIGHT FLIX CELL PHONE PROP FILTER KIT

Features: • Reduce that annoying propeller effect in your video • This filter will clip on any modern cell phone • The clip is compatible with any FF52 Flight Flix filter • Works with any Apple and Android cell phones

P/N 11-20199 ..... ---

FLIGHTFLIX AIRFOIL GENERATOR

Never worry about dead camera batteries in flight again. The Airfoil Generator uses wind power to maintain camera batteries in flight. No need to modify existing systems as the generator connects only to the camera. P/N 11-20766 ..... ---

FLIGHTFLIX RS SLIM GOPRO CIRRUS O2 PORT CPC MOUNT

The GoPro Slim mounts are slimmed down to a basic GoPro adapter and base. Adjust your GoPro by rotating the aluminum adapter 360 degrees.

You want your camera between your pilot seats viewing the panel, or next to you recording over the shoulder, but you can't find a good place to attach your camera? The Cirrus oxygen port mount gives you a quick and easy solution to mounting your GoPro in the cockpit of your Cirrus. Simply connect the mount to an unused oxygen port and you have the perfect camera angle looking out of the cockpit. .....P/N 11-20545 ..... ---

AV

COMANT ANTENNAS

COMANT CI-428-200 COMDAT ANTENNA

The CI-428-200 ComData GPS WAAS antenna is specifically designed to meet the GPS WAAS Gamma 3 specifications required by the Garmin G1000 system and matches the standard ARINC footprint found on many twin engine and business jets. It meets the RTCA DO 160D operating standards including direct effects lighting. Gamma 3 WAAS allows for primary navigation using GPS for all phases of flight including precision LPV approaches .....P/N 11-18311 ..... ---

COMANT CI-268-60 VHF COMDAT BLADE ANTENNA

The CI 268-60 uses the same radome as the multi-function ComDat antenna providing a matching look. The built-in notch filter allows installation in close proximity to GPS antennas without co-sight interference .....P/N 11-18307 ..... ---

COMANT SAR TRI-BAND SINGLE PORT BLADE ANTENNA

The CI-295-300 tri-band, single-port, airborne SAR blade antenna is designed to provide frequency coverage to Search and Rescue teams using Motorola's APX® architecture. For maximum effectiveness and connectivity, the CI 295-300 operates within P25 standards .....P/N 11-18308 ..... ---

COMANT CI-429-410 COMDAT ANTENNA

The CI-429-410 is an FAA TSOd GPS/XM antenna qualified under stringent C190 WAAS requirements. This antenna will operate with an y DO-301 qualified WAAS GPS system providing full Gamma 2 & 3 and LPV capabilities. The XM portion of the antenna will operate with popular panel mounted systems from Garmin and Heads Up .....P/N 11-18309 ..... ---

COMANT GPS ANTENNAS

GPS antenna kits from Comant enable you to install a low profile aerodynamic GPS antenna to the exterior of your aircraft. These antennas are all FAA approved under TSO C129, provide superior GPS signal acquisition, and are resistant to ice build-up in flight. All kits come complete with 10' of coax cable. Call with Comant Part No. for pricing on the Comant C1401, C1405, CI-406, OR CI4510 series antenna you require.

GARMIN GXM USB EXTENSION CABLE

GXM USB extension cable 010-10617-02 for GXM 30 and GXM 40 Satellite WX antennas.
P/N 11-06189 ..... ---

BENDIX KING GPS ANTENNA KA92

The KA 92 antenna is a compact, aerodynamically-styled "patch" antenna that mounts on top of the aircraft.
Weight: 0.30 lbs. (0.14 kg) Width: 2.70 in. (6.86 cm)
Height: 0.70 in. (1.78 cm) Length: 4.30 in. (10.92 cm)
Antenna.....P/N 11-04036 ..... ---
Installation Kit.....P/N 11-02581 ..... ---

COMANT CI-429-200 COMDATA ANTENNA - WAAS GPS/XM

The CI429-200 ComDat WAAS GPS antenna meets the stringent FAA TSO C190 WAAS requirements while providing full Gamma 2 & 3 and LPV capabilities when connected to any DO-301 qualified WAAS GPS system. It uses a popular ARINC 743A footprint and constructed using tough Skydrol resistant radome and a nickel-plated, aluminum base plate. It includes a Nitrile O-ring providing a positive seal to the skin of the aircraft .....P/N 11-18310 ..... ---

COMANT FM COMMUNICATIONS EXTENDED ANTENNA

The CI 292-3 FM Extended Band Bent Whip Antenna was designed to provide 2.5:1 VSWR or better over a bandwidth of 138-174 MHz. It features a high-strength die-cast 3-hole aluminum base. The radiating element is a bent-whip tapered stainless steel rod suitable for bottom mounting .....P/N 11-18306 ..... ---

COMANT VHF ANTENNA CI-109

Comant's four through hole mount whip style VHF communication antenna with BNC port. Equivalent to the CI 121 except features a larger diameter whip and weighs slightly more. Suitable for top mounting with light fixed wing single engine / multi-engine and helicopter aircraft.....P/N 11-19387 ..... ---

COMANT MARKER BEACON ANTENNAS

CI-102 MARKER BEACON - Frequency 75 MHz. For use with the modern, high sensitivity marker beacon receivers. Featuring 4-hole internal mounting for simple installation. Enclosed in an injection molded radome which is impervious to the tough environments typical of the underside of an aircraft. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static .....P/N 11-17931 ..... ---

CI-118 MARKER BEACON - Frequency 75 MHz. Designed specifically for high-performance aircraft applications. Features aerodynamic design in a lightweight package. Antenna is a low profile blade-type encased in a molded polyurethane shell. Skydrol and rain erosion resistant .....P/N 11-17932 ..... ---

COMANT MARKER BEACON (CI-118-1) - Frequency • 75 MHz. Low-drag, lower profile alternative to the popular CI 102 "boat style" marker beacon antenna. Approved for medium to high performance single, turbo-prop or jet aircraft and provides simple external mounting. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static ... P/N 11-06847 ..... ---

COMANT MARKER BEACON (CI-118-9) - Frequency 75 MHz. Identical to the CI 118 except the mounting configuration allows for "drop-in" replacement to the Honeywell Bendix-King KA 26 Marker Beacon. This Comant design has been tested to the tough DO-160D environmental standards. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static. P/N 11-06989 ..... ---

COMANT MARKER BEACON (CI-118-10) - Frequency 75 MHz. This Comant marker beacon is identical to the CI 118 except with a 4-hole through mount configuration. This model has been tested to the tough DO-160D environmental standards. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static .....P/N 11-06848 ..... ---

COMANT MARKER BEACON (CI-164) - Frequency • 75 MHz. Lightweight flush mount provides for dual-marker beacon signal outputsatthe antenna, eliminating theneed fora separate marker beacon splitter. Antenna is housed in a aluminum enclosure with a glass laminate cover. Internal components are potted in place for mechanical integrity. The CI 164 is designed for curved "crown" surface mounting as is currently used on the Cessna Citation I and II .....P/N

COMANT MARKER BEACON (CI-165) - Frequency • 75 MHz. Lightweight flush mount antenna, provides for dual marker beacon signal outputs at the antenna, eliminating the need for a separate marker beacon splitter. Antenna is housed in a aluminum enclosure with a glass laminate cover. Internal components are potted in place for mechanical integrity. The CI 164 is designed for curved "crown" surface mounting as is currently used on the Cessna Citation I and II. P/N 11-06851 ..... ---

COMANT CI-119 VHF ANTENNA

Comant's four internal hole mount blade style VHF communication antenna with offset BNC port. Equivalent to the CI 138, CI 139 and CI 196 expect for variations to BNC location and hold pattern. Suitable for either top or bottom mounting with both light and heavy fixed wing single / multiengine and helicopter aircraft.
P/N 11-19390 ..... ---

COMANT CI-139 VHF ANTENNA

Comant's four internal hole mount blade style VHF communication antenna with offset BNC port. Equivalent to the CI 119 expect for the BNC connector located at the centerline of the antenna. Suitable for either top of bottom mounting with both light and heavy fixed wing single engine / multi-engine and helicopter aircraft. P/N 11-19400 ..... ---

COMANT CI-2590-200 COMDAT VHF COM / GPS WAAS WHIP

Comant's ComDat® four through hole whip style mount VHF / GPS WAAS antenna with BNC / TNC ports. This antenna covers both VHF communication and GPS frequencies. GPS C190 certified for class 3 LPV precision approaches. Designed to be used with 27 dB gain GPS panel Mount systems. Suitable for top mounting with light fixed wing single engine aircraft. P/N 11-19418 ..... ---

COMANT CI-2680-216 COMDAT VHF COM / XM BLADE

Comant's ComDat® four through hole blade style mount VHF / XM Weather & Radio antenna with BNC / TNC ports. This antenna covers both VHF communication and XM frequencies. Designed to be used with Garmin XM panel mount systems. Suitable for top mounting with for both light and heavy fixed wing single engine / multi-engine and business jet aircraft.
P/N 11-19419 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

COMANT DME / TRANSPONDER ANTENNAS

CI-101 TRANSPONDER ANTENNA

Frequencies Covered 1030-1090 MHz. Transponder antenna with top loaded stub monopole. Contact points are made from beryllium copper. Mounts through a single 0.600" diameter mounting hole.....P/N 11-17970 ..... ---

CI-105 TRANSPONDER/DME ANTENNA

A very broadband and rugged antenna which is encased in glass reinforced molded shell. Rated to 400 kts. TAS. Height. 3.25"; Wt. 0.2 lb. Does not include BNC or hardware .....P/N 11-17965 ..... ---

COMANT DME/ TRANSPONDER (CI -105-3)

960 - 1220 MHz. Antenna configuration specifically designed for external applications using a three hole flange mounting. BNC female connector.

P/N 11-06810 ..... ---

COMANT DME/XPDR (CI -105-6 & 105-7)

Frequency • 960-1220 MHz. Comant CI 105-3 DME/ Transponder antenna. Ant signed for external applications using a three hole flange mounting. BNC female connector.

CI 105-6 connector - BNC..P/N 11-06811 ..... ---
CI 105-7 connector - C.....P/N 11-06817 ..... ---

COMANT DME/ TRANSPONDER (CI-105-9)

Frequency • 960-1220 MHz. Antenna assembly encased in a glass reinforced polyester molded shell. Comes standard with a 6" extension coax cable and BNC connector. This model offers standard two stud mounting, where the studs are extended to 1 inch in length .....P/N 11-06818 ..... ---

COMANT DME/ TRANSPONDER (CI -105-16)

Frequency • 960-1220 MHz. Was designed specifically for the Honeywell Bendix- King™ KA60. This unit offers the extended length two-stud mounting found on the KA60. Tested to the tougher DO-160D environmental requirements, this antenna offers the best in ruggedness and performance.

P/N 11-06819 ..... ---

COMANT DME/ XPDR (CI-110-40-30)

Frequency • 960-1220 MHz &1030-1090 MHz. All metal, low profile antenna is designed for business jet and commercial high speed aircraft. With a popular four hole mount and connector with open path to ground, this antenna is ideally suited for those aircraft equipped with standard and Mode S transponders. Tough one piece construction provides 175 lbs. side load capability. Moisture failure is prevented with completely sealed construction .....P/N 11-06820 ..... ---

COMANT DME/ TRANSPONDER (CI-110-41-30)

Frequencies Covered 960 -1220 MHz. All metal, low profile antenna is designed for business jet and commercial high speed aircraft. With a popular four hole mount and connector with short path to ground, this antenna is ideally suited for those aircraft equipped with standard and Mode S transponders. Tough one-piece construction provides 175 lbs. side load capability. Moisture failure is prevented with completely sealed construction .....P/N 11-06821 ..... ---

COMANT DME/XPDR (CI -110-60-30)

Frequency • 960-1220 MHz & 1030-1090 MHz. All metal, low profile antenna is designed for business jet and commercial high speed aircraft. Six hole mount and connector with open path to ground. Suited for aircraft equipped with standard and Mode S transponders. Provides 175 lbs. side load capability. Moisture failure is prevented with completely sealed construction .....P/N 11-06822 ..... ---

COMANT DME/ XPDR (CI-110-61-30)

Frequency • 960 -1220 MHz. All metal, low profile antenna is designed for business jet and commercial high speed aircraft. Six hole mount and connector with short path to ground. Suited for those aircraft equipped with standard and Mode S transponders. Tough one-piece construction provides175 lbs. side load capability. Moisture failure is prevented with completely sealed construction .....P/N 11-06823 ..... ---

COMANT DME/ TRANSPONDER (CI-305)

Frequency • 960-1220. Miniature high speed DME/ Transponder - one of the smallest DME/Transponder antennas available from Comant. Less than 2.75 inches high, featuring a very low-drag frontal profile. Strong, lightweight and easy to mount using four external mounting holes through base.

P/N 11-06824 ..... ---

COMANT FM BAND & AM/FM ANTENNAS

COMANT AM/ FM RECIEVER (CI-222) -

Frequency 88-108 MHz 550-1600 KHz. Offers a unique low profile design using standard 4 hole mounting used on many VHF type antennas. Bent whip configuration is ideally suited for underbelly and helicopter installations.

P/N 11-00412 ..... ---

COMANT C-177 FM COMM WHIP ANTENNA -

Comant's four through hole mount whip style FM Communication antenna with BNC port. Designed for use over the public service FM frequency 2-meter band. Suitable for top mounting with light fixed wing single engine / multi-engine aircraft. P/N 11-19405 ..... ---

COMANT C-177-1 FM COM EXTENDED FREQUENCY WHIP -

Comant's four through hole mount whip style FM Communication antenna with BNC port. Designed for use over the public service FM extended frequency 2-meter band. Suitable for top mounting for light fixed wing single engine / multi-engine aircraft. P/N 11-19406 ..... ---

COMANT RADIOPHONE / DME ANTENNAS

COMANT VHF COMMUNICATIONS (CI-291)

Frequencies Covered 118-137 MHz Upgraded to the new RTCA DO-160D environmental requirements and offers the 118 to 137 MHz frequency associated with DO 186A MOPS .....P/N 11-17991 ..... ---

COMANT VHF COMMUNICATIONS (CI-292-1)

Frequencies Covered 118-137 MHz. Designed specifically for top mounting on an aircraft. Upgraded to the new RTCA DO-160D environmental requirements and offers the 118 to 137 MHz frequency associated with DO-186A MOPS.

P/N 11-05093 ..... ---

COMANT VHF COMMUNICATIONS (CI-292-2)

Upgraded to the new RTCA DO-160D environmental requirements and offers the 118 to 137 MHz frequency associated with DO 186A MOPS.

P/N 11-29202 ..... ---

COMANT VHF COMMUNICATION (CI-248-5)

Frequencies Covered 118-137 MHz. Developed for Cessna 182 and 182T aircraft. The only VHF antenna with a built-in notch filter, that allows installation in close proximity to GPS antennas without co-sight interference.

P/N 11-05585 ..... ---

COMANT VHF COMMUNICATIONS (CI-108)

Frequencies Covered 450-470 MHz Suitable for either top or bottom mounting. Upgraded to the RTCA DO-160D environmental requirements with DO-186A MOPS. Optional leading edge protection - CI 108-L.

Model	Description	Frequency Range	Part No.	Price
CI-108	Standard	118-137 mHz	11-07079	---
CI-108-L	with Leading Edge Protection	118-137 mHz	11-16207	---
CI-108-1	Standard	118-153 mHz	11-07080	---
CI-108-1-L	with Leading Edge Protection	118-153 mHz	11-15432	---

COMANT ADS-B ANTENNA CI 105-17-L

The CI-105-17L broadband antenna is designed for DME or transponder use and covers frequencies from 960 MHz to 1,220 MHz. It has a TNC female connector, a six hole mount and a 50 ohm resistance. Can be used on single and twin engine piston aircraft. Ideal for upcoming ADS-B FAA mandate, this is the only antenna of its kind, capable of both IN and OUT processing.....P/N 11-15574 ..... ---

AV

COMANT ANTENNAS

COMANT RADIOPHONE / DME ANTENNAS

COMANT UHF (CI-177-20) - 450-470 MHz. A rugged monopole antenna particularly wellsuited to the harsh environments experienced on the underside of an aircraft. Features standard4-hole mounting, diecast metal base and radiator encased in glass laminate housing. .....P/N 11-06836 .....

COMANT UHF (CI-200) - 450-470 MHz. Rugged monopole antenna particularly well-suited to the harsh environments experienced on the underside of an aircraft. Features a very compact 3-hole mounted die-cast aluminum base with the radiator encased in a glass laminate housing. .....P/N 11-06837 ..... ---

COMANT UHF (CI-271) - 403-512 MHz. Stub antenna designed to withstand the harsh environments associated with the underside of an aircraft. Antenna radiator is mechanicly captivated and is sealed against leakage. All exposed metal surfaces are nickel-plated for corrosion resistance and long service. Mounts through a single 0.600" hole. BNC connector is standard. .....P/N 11-06838 .....

COMANT UHF (CI-273) - 403-512 MHz. Stub antenna designed to withstand the harsh environments associated with the underside of an aircraft. Antenna radiator is mechanicly captivated and is sealed against leakage. All exposed metal surfaces are nickel-plated for corrosion resistance and long service. Mounts through a single 0.600" hole. BNC connector is standard. .....P/N 11-06839 .....

COMANT UHF (CI-275) - Frequency 406-512 MHz. Wide band UHF antenna designed for high-performance aircraft over the full frequency range of 406-512 MHz. Low profile, blade-type antenna is encased in a low drag, low weight molded body to ensure high reliability. The CI 275 comes standard with a BNC connector. Other connectors available. See order option chart.

Connector	Model	Part No.	Price
BNC	CI 275	11-06840	---
TNC	CI 275-2	11-06841	---
N	CI 275-5	11-06842	---

COMANT UHF (CI-285) - Frequency • 400-960 MHz UHF blade antenna design for high performance aircraft over the full range of 400-960 MHz. Features vertically polarized/ omni-directional pattern, extremely wide band/high efficiency electrical performance. DC grounding for lightning protection, 6 hole mounting.....P/N 11-06843 ..... ---

COMANT UHF (CI-306) - Frequency • 800-870 MHz. Stub-type antenna tuned for the 800- 870 MHz radio telephone band. Intended for use on low-flying aircraft and helicopters. CI 306 available with BNC connector and mounts through a single 0.600" inch diameter hole. .....P/N 11-06844 ..... ---

COMANT CI 310-20 RADIOPHONE - Frequencies Covered 806-960 & 1030-1090 MHz L Band / UHF blade antenna designed for high performance aircraft. Features vertical/ omnidirectional pattern, wide band/high efficiency electrical performance and DC grounding for lightning protection.
P/N 11-06845 ..... ---

COMANT CI 310-22 RADIOPHONE ANTENNA - Frequencies Covered 806-960 & 1030-1090 MHz L Band / UHF blade antenna designed for high performance aircraft. Low profile, light weight antenna and is packaged in a molded body with metal mounting base to ensure stable environmental performance and resistance to vibration, rain erosion and cleaning solvents. Features vertical/ omnidirectional pattern, wide band/high efficiency electrical performance and DC grounding for lightning protection.....P/N 11-06846 ..... ---

COMANT RADIOPHONE / DME ANTENNAS

COMANT VHF COMMUNICATION (CI-121) - Frequencies Covered 118-137 MHz. Similar to the CI 109, the CI 121 is smaller in diameter and lighter at only 0.5 pounds. Upgraded to the new RTCA DO-160D environmental requirements and offers the 118 to 137 MHz frequency associated with DO-186A MOPS. .....P/N 11-17921 ..... ---

COMANT VHF COMMUNICATIONS (CI-122) - Frequencies Covered 118-137 MHz. Designed specifically for mounting to the underside of an aircraft providing excellent radiation coverage for air-to-ground VHF communications. Bent configuration makes it ideally suited for helicopters and low wing aircraft. Upgraded to the new RTCA DO-160D environmental requirements and offers 118 to 137 MHz frequency associated with the DO-186A MOPS.
P/N 11-17922 ..... ---

COMANT VHF COMM (CI-211) - Frequencies Covered 118-137 MHz. For large twins and medium jet aircraft. Only 8.25 inches high. Upgraded to the new RTCA DO-160D environmental requirements and offers the 118 to137 MHz frequency associated with DO-186A MOPS..P/N 11-07082 .....

COMANT VOR / LOC / GS ANTENNAS

COMANT VOR/ GS (CI-120G-S)
Frequency • 108-118 MHz (VOR/LOC) 329-335 MHz (GS) Antenna system qualified for use on single engine, twin, jet, and helicopter aircraft. Provides glideslope reception capability. Complete set includes a pair (2) of blades, each with single BNC connector output, two coax interconnect cables and a signal combiner output providing for a single cable run to the avionics installation.....P/N 11-06801 ..... ---

COMANT VOR/LOC/GS (CI-120-200G/S)
Frequency • 108-118 MHz (VOR/LOC) 329-335 MHz (GS) Antenna system qualified for use on single engine, twin, jet, and helicopter aircraft. Provides glideslope reception capability. Complete set includes a pair (2) of blades, each with single BNC connector output, two coax interconnect cables.Dual output signal combiner providing for separate RF cable runs to the avionics installation for NAV1 and NAV 2 receivers, is included. .....P/N 11-06802 ..... ---

CI-120-200G/S-L - Blades have leading edge protection and come with rubber gasket enabling mounting on curved vertical stabilizers.
Note: Comant Antennas no longer come with a gasket or a template. Must order P/N 09-05579 separately. .....P/N 11-06803 ..... ---

COMANT VOR/LOC/GS (CI-120-400)
Frequency • 108-118 MHz (VOR/LOC) 329-335 MHz (GS) Designed for the Cessna 182 Series. Complete kit includes a pair (2) of blades, each with a single BNC output, and two coax interconnect cables. Single BNC output phasing combiner providing for a single RF cable run to the avionics installation.
P/N 11-06804 ..... ---

COMANT VOR/LOC/GS (CI-157P)
Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope) "V" dipole VOR/ Glide Slope antenna with fixed elements designed specifically for compatibility with the Piper Aircraft mounting. Radiating elements are not removable. Not approved for helicopter installations.
P/N 11-15700 ..... ---

COMANT VOR/LOC/GS (CI-185C)
Frequency • 108-118 MHz (VOR/LOC) 329-335 MHz (GS) "V" Dipole VOR/LOC/GS antenna with detachable elements mo unts on top of the vertical fin stabilizer for most single engine general aviation aircraft. RF design similar to the CI 157P. Integral ferrite balun provides for higher radiation efficiency. Not approved for helicopter installations. Consult your FBO or installation shop for best application information. P/N -11-17923 ..... ---

COMANT VOR/LOC/GS (CI-158C-2)
Frequency • 108-118 MHz (VOR/LOC) 329-335 MHz (GS) Detachable elements mounts on top of the vertical fin stabilizer offering the four-hole mounting configuration found on many beech aircraft. Detachable elements result in a significantly smaller shipping and storage carton than fixed element versions. Not approved for helicopter installations.
P/N 11-06806 ..... ---

COMANT VOR/LOC/GS (CI-159C)
Frequency 108-118 MHz (VOR / LOC) 329-335 MHz (Glide Slope) Similar to the CI 158C-3 with the exception of offering 2-hole mount instead of a 4-hole mount. Not approved for helicopter installations.....P/N 11-17924 ..... ---

COMANT CI-490-490 IRIDIUM ROUND

Comant's four through hole round style mount Iridium antenna with TNC ports. Iridium C159a certified designed for airborne Iridium based telephone, email, asset tracking or safety services. Suitable for top mounting for both light and heavy fixed wing single engine / multiengine and business jet aircraft.
P/N 11-19434 ..... ---

COMANT CI-150-500-L WIFI ANTENNA

Comant's six through hole blade style mount Wi-Fi antenna with TNC port. Intended for Wi-Fi applications using 11.802 data protocol. Adds the 5170 to 5820 MHz range. Applications include the ability to receive wireless intranet and data transfer while the aircraft is parked on the ramp. Suitable for top mounting for both light and heavy fixed wing single engine / multi-engine , helicopter and business jet aircraft.
P/N 11-19402 ..... ---

AV

COMANT ANTENNAS

COMANT VOR / LOC / GS ANTENNAS

COMANT GLIDE SLOPE (CI-193)
Frequencies Covered 329-335 MHz (GS) For interior mounting for GS reception..P/N 11-05200 ..... ---

COMANT VOR/GS (CI-205-3)
Frequency 108-118 MHz (VOR/ LOC) 329-335 MHz (Glide Slope) Mounting on the aircraft vertical stabilizer or helicopter tail boom. Set includes a pair (2) of "towel bar" sensor elements each with a single BNC output connector and a one-piece dual coax interconnect signal combiner harness with a single BNC connector output. Provides for a single cable routing to the avionics location.
P/N 11-17985 ..... ---

COMANT VOR/LOC/GS (CI-215)
Frequencies Covered 108-118 MHz (VOR/LOC), 329-335 MHz (GS) Detachable elements featuring two integrally molded mounting legs or "spacers" for increased strength.....P/N 11-17926 ..... ---

COMANT VOR/LOC/GS (CI-259E)
Frequencies Covered 108-118 MHz (VOR/LOC), 329-335 MHz (GS) Fixed elements for helicopter aircraft.
P/N 11-06809 ..... ---

COMANT COMDAT GPS ANTENNAS

COMDAT ANTENNA (CI-401-220)
Frequency • GPS 1575.42 +/- 3 MHz Contains stable amplifier that offers great performance. Gain performance at 26.5 to 31.5 dB minimum. Presents very low noise levels at 3.8 dB maximum. Built-in voltage regulator.....P/N 11-04139 ..... ---

COMDAT GPS (CI-401-221)
GPS antenna with TNC connector. Meets RTCA DO 160-D operating standards including direct effects lightning. Operate with 26.5 dB panel mount GPS receivers. Certified FAA TSO-C144 for GPS and GPS WAAS Class Gamma 1 equ. Not compliant for GPS WAAS Class Gamma 2 and 3 applications. Not compatible with most portable GPS receiver systems. GPS 1575.42 MHz / 26.5 dB Gain.....
P/N 11-06795 ..... ---

COMDAT ANTENNA (CI-420-220)
Stand-alone GPS antenna with TNC connector. Meets RTCA DO 160D operating standards including direct effects lightning. Designed to operate with 26.5 dB panel mount GPS receivers. Certified FAA TSO-C144 for GPS and GPS WAAS Class Gamma 1 equipment. Not compliant for GPS WAAS Class Gamma 2 and 3 applications. Not compatible with most portable GPS receiver systems. GPS 1575.42 MHz - 26.5 db Gain.
P/N 11-05848 ..... ---

COMDAT GPS (CI-420-221)
Stand-alone GPS antenna with TNC connector. Meets RTCA DO 160D operating standards including direct effects lightning. Designed to operate with Garmin 17.0 dB panel mount GPSreceivers. Not compatible with most portable GPS receiver systems. GPS 1575.42 MHz - 17.0 db Gain.
P/N 11-04291 ..... ---

COMANT COMDAT GPS/XM ANTENNAS

COMDAT GPS/XM (CI 420-420)
Frequencies • GPS 1575.42 MHz / 26.5 dB Gain XM 2332.5-2345.0 /30-34 dB Gain. GPS and XM Weather antenna. Designed for compatibility with panel mount 26.5 dB gain GPS receivers. Add XM to an existing GPS antenna location without the need for a completely new installation location. Certified FAA TSO-C144 for GPS and GPS WAAS Class Gamma 1 equipment. Not compliant for GPS WAAS Class Gamma 2 and 3 applications. Not compatible with most portable GPS receiver systems .....P/N 11-05852 ..... ---

TED ADS-B ANTENNA

978MHz TED ADS-B monopole transmissions antenna. The outer shell and element is nickel plate and the center conductor is gold over nickel plate.....P/N 11-13561 ..... ---

COMANT COMDAT VHF/GPS ANTENNAS

COMDAT VHF/GPS (CI-2480-200) - Dual function single engine antenna for VHF/GPS. For popular 26.5 dB gain GPS panel mount systems.Certified FAA TSO-C144 for GPS and GPS WAAS Class Gamma 1 equipment. Not compliant for GPS WAAS Class Gamma 2 and 3 applications. VHF 118-137 MHz GPS 1575.42 MHz / 26.5 dB Gain.....P/N 11-05850 ..... ---

COMDAT ANTENNA (CI-2480-201) - 1575.42 MHz 17.0dB Gain 118 - 137 MHz VHF. Separate connectors for GPS and VHF, GPS is protected from VHF harmonics. Designed for use with Garmin's™ panel mount GPS systems that require 17dB gain. .....P/N 11-05849 ..... ---

COMDAT ANTENNA (CI 2580-200) - 1 The CI 2580-200 is Comant's newest ComDat VHF/GPS antenna designed specifically to meet the GPS WAAS Gamma 3 specifications required by the Garmin G1000 system. The patented technology provides 80 dB of VHF harmonic suppression offering VHF and GPS in one radome without in-line filters. Gamma 3 WAAS allows for primary navigation using GPS for all phases of flight including precision LPV approaches.
P/N 11-11545 ..... ---

COMANT COMDAT VHF/GPS ANTENNAS

COMDAT VHF/GPS (CI-2680-200) - Designed for use with Aircell Broadband Systems (ABS). Single and twin engine piston aircraft for applications of this antenna design. Some light turbine and light jets. Consult your FBO or installation shop for best application information. VHF 118-137 MHz GPS 1575.42 MHz / 26.5 dB Gain.
P/N 11-06789 ..... ---

COMANT COMDAT XM ANTENNAS

COMDAT XM (CI-420-10) - XM 2332.5-2345.0 /25.0 dB Gain. For Garmin GDL 69/69A receivers and Heads Up Technologies (HUT) receivers with short coaxial cable runs. Feature robust TNC female connector.
P/N 11-06798 ..... ---

COMDAT XM (CI-420-16) - XM 2332.5-2345.0 /26-30 dB Gain. For Heads Up Technologies (HUT) receivers with longer coaxial cable runs . Features robust TNC female connector. .....P/N 11-06799 ..... ---

COMANT ATTENUATOR, SPLITTERS, COUPLERS, & DUPLEXERS

COMANT SPLITTER (CI-5120) DUAL VOR/ LOC/ GS - 108-118 MHz & 329-335 MHz. For use with Garmin GTN 650/750 and similar systems. Splits single coax antenna input into equally proportioned VOR/ LOC/GS outputs.....P/N 11-06826 ..... ---

CI-502 Dual VOR Coupler – Allows the simultaneous use of two VOR receivers from one VOR antenna.....P/N 11-17975 ..... ---

CI-503 Dual GS Diplexer – Permits operation of two glide slope receivers from one glide slope antenna.....P/N 11-17976 ..... ---

CI-505 VOR/GS Triplexer – Permits operation of two NAV & one glide slope receiver from 1 VOR/LOC antenna ...P/N 11-17977 ..... ---

CI-507 Single VOR/GS Diplexer – Provides the operation of one VOR and one glide slope receiver from one VOR/GS antenna.
P/N 11-17980 ..... ---

CI-509 COMANT COUPLER MARKER BEACON - Permits the use of two marker beacon receivers from one marker beacon antenna.
P/N 11-06852 ..... ---

CI-1125 VOR/GS Quadraplexer – Permits operation of two NAV & two glide slope receivers from 1 VOR/LOC antenna.
P/N 11-03777 ..... ---

COMANT VHF 259 CONNECTOR - UHF Connector/RG58/SGL Crimp.
P/N 11-13087 ..... ---

MINI CIRCUITS GARMIN COMPATIBLE COAX POWER SPLITTER - Ideal for use in installations of Garmin devices, the ZFSC-2-1B is a coaxial power splitter and/or combiner available at an excellent price point that is identical to Garmin's part #013-00112-00. The ZFSC-2-1B can be used in VHF and UHF applications, instrumentation, and com-

AV

DM C63-1/A COM ANTENNA

Frequency Range 118-137 MHz The DM C63-Series antennas are VHF communication antennas designed for high mechanical strength with machine tapered aluminum alloy radiating elements. These vertically polarized antennas cover the frequency range of 118-137 MHz for both transmitting and receiving applications. Supplied with a gasket and a doubler plate .....P/N 11-02764 ..... ---

DM C63-2 COM ANTENNA

118-137MHz Bent Rod For Bottom Installation, Frequency Range 118-137 MHz The DM C63-Series antennas are VHF communication antennas designed for high mechanical strength with machine tapered aluminum alloy radiating elements. Cover the frequency range of 118-137 MHz. The DM C63-2 is a low profile "bentback" radiating element designed for mounting on the bottom of the fuselage .....P/N 11-02765 ..... ---

DM C63-3/A ANTENNA

VHF communication antenna designed for high mechanical strength with machine tapered aluminum alloy radiating elements. These vertically polarized antennas cover the frequency range of 138-174 MHz for both transmitting and receiving applications. Low profile "bentback" radiating element designed for mounting on the bottom of the fuselage. Supplied with a gasket and a doubler plate.

P/N 11-02766 ..... ---

DM C70-1/A COM ROD ANTENNA

Designed for top or bottom installation on high-performance, single, twin and turbo engine fixed and rotary wing aircraft. These uniquely designed antennas offer mechanical strength and high-electrical efficiency to provide maximum reliability and full 360/720 channel transceiver operation. Height: 15" Speed Rating: 400 mph.....P/N 11-02768 ..... ---

DM C70-3 COM ROD ANTENNA

Designed for top or bottom installation on high-performance, single, twin and turbo engine fixed and rotary wing aircraft. Offer mechanical strength and high-electrical efficiency to provide maximum reliability and full 360/720 channel transceiver operation. Height: 20.5". Speed Rating: 250 mph.

P/N 11-02769 ..... ---

DM C70-4 COM ANTENNA

Designed for top or bottom installation on high-performance, single, twin and turbo engine fixed and rotary wing aircraft. These uniquely designed antennas offer mechanical strength and high-electrical efficiency to provide maximum reliability and full 360/720 channel transceiver operation.

P/N 11-02770 ..... ---

DM NI70-2 COM ANTENNA

L-band metal blades with and extended bandwidth for use with both transponders or distance measuring equipment. Sealed and waterproofed for increased reliability.

P/N 11-02767 ..... ---

DM N48-1 NAV ANTENNA

Balanced loop design assures an omnidirectional radiation pattern at the horizon to obtain the maximum signal for standard VOR and area navigation systems installed in lightweight aircraft, medium twins, and helicopters operating up to 250 mph. Dual VOR receiver operation is obtained when the antenna is used with the DM H21-1 diplexer.

P/N 11-02771 ..... ---

DORNE & MARGOLIN -2/L BAND BLADE/ 4HOLE/C CONN

Blades are low profile antennas which incorporate high side load strength, a sealed construction against water and Skydrol, and lightning protection circuits. Reduced maintenance costs.....P/N 11-08338 ..... ---

DM C70-6 VHF COMM BROADBAND ANTENNA

The C70 Series VHF Communication Antennas are designed to be installed on the top or bottom on high-performance, single, twin and turbo engine fixed and rotary wing aircraft.

P/N 11-15523 ..... ---

DORNE & MARGOLIN NAV ANTENNA SPLITTERS

11-02774

This Antenna Coupler is ruggedly built and housed in an aluminum case with all circuit elements fully encapsulated.

DM H21-2 - Dual Market Beacon or Dual VOR . P/N 11-02772..... ---
DM H22-1 - Single G/S or Single VOR ..... P/N 11-02773..... ---
DM H23-1 - Triplexer-Dual VOR & Single G/S .. P/N 11-02774..... ---
DM H69-1 - Quadraplexer-Dual VOR & Dual G/S P/N 11-02775..... ---
DM H24-1 - Diplexer, Dual G/S..... P/N 11-02776..... ---

ANTENNA INSTALLATION TEMPLATES

Custom designed templates improve the antenna sealing process, making it more precise, efficient and cost-effective.

Each Sealing Guide template is custom designed to correspond to an individual antenna. They consists of 2 pieces, one inner part and one outer part. The inner template adheres to the base of the antenna, the outer template is placed on the body of the aircraft surrounding the antenna. Sealant is applied to the gap between the templates. Sealant is applied to the gap between the templates. When the templates are removed and discarded, the sealant is left to cure, resulting in a clean, precise and smooth seal.

Each template is custom designed to correspond to an individual antenna. You will no longer need to laboriously cut and paste various lengths of tape, trying to fit them around the irregular antenna shape.

The Sealing Guide template consists of 2 pieces, one inner part and one outer part. Application is simple. The inner template adheres to the base of the antenna, and the outer template is placed on the body of the aircraft surrounding the antenna. Sealant is applied to the gap between the templates. The templates are then removed and discarded. The sealant is left to cure, resulting in a clean, precise and smooth seal.

Incorporating the "Sealing Guide" system into your sealing process will significantly reduce labor time.

For use with the following antennas:	Part No.	Price
CI-100 Series, CI-105-6, CI-105-7, CI-110-40 Series, CI-110-41 Series, CI-110-60 Series, CI-110-61 Series, S65-5366-850L, S65-5366-890L, S65-5366-2L, S65-5366-3L, S65-5366-7L, S65-5366-8L, S65-5366-10L, S65-5366-10LC, S65-5366-11L, S65-5366-116L, S65-5366-119L, S65-5366-144L, S65-5366-145L, S65-5366-168L, S65-5366-4 Series, AV-741, DM N150 Series, DM N170 Series	11-06656	---
CI-121, CI-122, CI-177, CI-177-1, CI-177-13, CI-177-3, CI-177-4, CI-177-20, CI-291, CI-292-1, CI-292-2, CI-292-3, CI-292-4, CI-222, CI-222-1, CI-4510, CI-317, CI-317-1,CI-405 Active Series, CI-405-26 Active, AV-10, AV-14, AV-17	11-06665	---
CI-401 Series ACT, CI-401 Series PAS, S67-1575-16, S67-1575-52, S67-1575-82, S67-1575-132, S67-1575-133, S67-1575-134, S67-1575-135, S67-1575-145, AV-GPS, DM N1021-1	11-06667	---
S67-1575-136, S67-1575-863, S67-1575-109, S67-1575-137	11-06671	---

TED 4-70 GPS NOTCH FILTER

Your global positioning system receives its positional information at 1575.42 MHz. The communications radios on-board your aircraft typically broadcast in the 121.5 MHz range. That is a wide separation in frequency bandwidth but it's not the complete picture. Your comm's are also producing harmonics which can produce significant noise at the GPS frequency. Now you can filter that signal and avoid potentially hazardous situations.

A simple low cost way to clean up the receivers frequency environment. The TED 4-70 notch filter installs quickly and easily via standard BNC bayonet couplings, in-line between radios and antenna. The 4-70 rejects in excess of 50dB of 1575.42 signal at the source. Each filter is individually tuned and checked to assure maximum performance. Of course, the 4-70 also passes strenuous environmental criteria so important in aircraft applications. Major GPS manufacturers recognize this problem & recommend using the 4-70 on new and retrofit installation.

P/N 11-02204 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RAMI ANTENNAS

ALL LISTED ANTENNA SPECIALISTS HAVE 50 OHM IMPEDANCE. FOR SPEEDS TO 250 MPH AND 25,000' ALTITUDE.

ANTENNA AV-1

is a base station antenna for comminucations with ground vehicles or aircraft. It has heavy-duty construction with 3/8" diameter aluminum radials, a 1" diameter aluminum tube radiator, and is iridite-treated for durability. It mounts easily to a 1" diameter pipe or a 1-1/4" O.D. tube with locking set screws Application: VHF Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 2.0 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type PL-259 Max Weight: 2.75 lb Max Height: 34 RF Power Capacity: 1000 Watts

AV-1 Base Station ..... P/N 11-05996 ..... ---
Radial Rod for AV-1 ..... P/N 11-14053 ..... ---

VEHICLE COM ANTENNA AV-3

is a low profile snap-in mounting quarterwave antenna for use on surface vehicles. It has a solderless cable connection at the antenna and is supplied with 12 feet of cable and PL-529 connector. Application: VHF Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 1.5 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type PL-259 Max Weight: 2.50 lb Max Height: 55" Max (field cuttable) RF Power Capacity: 100 Watts..... P/N AV-3 ..... ---
Radiator Whip & Ball for AV-3 Antenna ..... P/N 11-14055 ..... ---

VHF "BROAD BAND" COM ANTENNA

Blade type-low drag. Aluminum radiator encapsulated in rigid urethane foam with white fiberglass housing. 118-136 MHz. Power capability: 50 watts. 13-1/2" high. Weight: 20 oz. Application: Airborne Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 3.0 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type "BNC" Female Max Weight: 20 oz Max Height: 13-1/2" RF Power Capacity: 30 Watts

P/N AVT-4 ..... ---

BASE STATION ANTENNA

Ground Plane 118-136 MHz Application: VHF Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 1.5 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type PL-259 Max Weight: 1.0 lb Max Height: 34" RF Power Capacity: 100 Watts..... P/N AV-5 ..... ---
Radial Rod for the AV-5 ..... P/N 11-14054 ..... ---

RAMI AV-7-1A 5/8 WAVE VEHICULAR COM ANTENNA ONLY AND ACCESSORIES

The AV-7 is a high performance vehicular antenna for use on all surface vehicles where communications on the aircraft VHF COM frequency band are required. Heavy duty constructed with a tapered 17-7PH stainless steel whip and spring mount. All exposed fittings are chrome-plated brass or stainless steel. Mounting is easily achieved on rooftop, cowl, fender or other suitable location via a magnetic or fixed "NMO" base. The antenna comes pre-tuned to operate in the aircraft VHF COM frequency band of 118-137 MHz.

AV-7-1A Antenna Only; 44.5" Length ..... P/N 11-14037 ..... ---
AV-7-3F Fixed base mount only 17' cable with BNC connector not attached..... P/N 11-14038 ..... ---
AV-7-2M Magnetic base only 12' cable with BNC connector attached.

P/N 11-14039 ..... ---

RAMI AV-7F FIXED MOUNT 5/8 WAVE VEHICULAR COM ANTENNA

ANTENNA/VHF communications, fixed Mount, 118-137 MHz, spring loaded base, includes: 17' cable with unattached BNC Connector. Antenna with fixed mount base; 17' cable with "BNC" connector not attached. The AV-7 is a high performance vehicular antenna for use on all surface vehicles where communications on the aircraft VHF COM frequency band is required. Heavy duty constructed with a tapered 17-7PH stainless steel whip and spring mount. All exposed fittings are chrome-plated brass or stainless steel. Mounting is easily achieved on rooftop, cowl, fender or other suitable location via a fixed "NMO" base. The antenna comes pre-tuned to operate in the aircraft VHF COM frequency band of 118-137 MHz ..... P/N 11-14035 ..... ---

RAMI AV-7M MAGNETIC 5/8 WAVE VEHICULAR COM ANTENNA

ANTENNA/VHF communications, whip type, magnetic base, 118-137 MHz, includes: 12' cable with attached BNC Connector. Antenna with magnetic base; 12' cable with "BNC" connector attached. The AV-7 is a high performance vehicular antenna for use on all surface vehicles where communications on the aircraft VHF COM frequency band is required. Heavy duty constructed with a tapered 17-7PH stainless steel whip and spring mount. All exposed fittings are chrome-plated brass or stainless steel. Mounting is easily achieved on rooftop, cowl, fender or other suitable location via a magnetic base. The antenna comes pre-tuned to operate in the aircraft VHF COM frequency band of 118-137 MHz... P/N 11-14036 ..... ---

ANTENNA AV-15

Used with aviation, land mobile radio and flight phone bands. Chrome-plated ball tip provides low noise static discharge. Designed to operate at speeds up to 350 mph and altitudes of 50,000 ft. It has a drag force of 0.75 lb @ 250 mph ..... P/N 11-06993 ..... ---

VHF "BROAD BAND" ANTENNA - Rod type. Silver plated braid radiator encapsulated in fiberglass tube with white epoxy finish. Die cast aluminum base. 118-136 MHz. Wt: 8 oz. BNC termination. Supplied with weather sealing rubber pad and mounting hardware. Application: Airborne Communications Frequency: 118 to 136 MHz Impedance: 50 Ohms Nominal VSWR: 1.8 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type "BNC" Female Max Weight: 8 oz Max Height: 20-1/4" RF Power Capacity: 25 Watts ..... P/N AV-529 ..... ---

AV-534

VHF COM ANTENNA - Stainless steel bent whip antenna with insulator and mounting hardware. 118-136 MHz. Wt. 3-1/2 oz. Application: Airborne Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 3.0 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: N/A Max Weight: 8 oz Max Height: 19-1/2" RF Power Capacity: 50 Watts ..... P/N AV-534 ..... ---
AV-534 Install Kit ..... P/N 11-14061 ..... ---

MARKER BEACON ANTENNA - Boat Type Application: Marker Beacon Frequency: 75 MHz Impedance: 50 Ohms Nominal VSWR: 1.6 to 1 Maximum Connector: Type "BNC" Female Max Weight: 6.25 oz Max Height: 2-1/2" RF Power Capacity: Receive only

P/N AV-569 ..... ---

RAMI AV-801 GPS WAAS ANTENNA - The AV-801 WAAS GPS antenna is designed specifically to meet FAA TSO-C190 specifications. Qualification testing includes meeting the requirements of RTCA DO-301 and DO-160G. The AV-801 fit and function matches the ARINC 743A standard found on many general aviation aircraft up to and including business jets.

P/N 11-14354 ..... ---

TRANSPONDER ANTENNA - Chrome plated, phosphor bronze radiating element mounted in Teflon insulator. Ball tip for low-noise static discharge. May be installed from the outside. Can also be used as an ABS-B Antenna. TSOd. 1030-1090 & 978 MHz. BNC connector. Wt. 1 oz. ..... P/N AV-22 ..... ---

RAMI AV-11 TRANSPONDER ANTENNA - The AV-11 is a non-certified transponder antenna for experimental aircraft, similar to the TED 104-12 antenna. This rod style transponder antenna utilizes a BNC connector and requires a smaller mounting hole. The antenna is designed to operate at speeds up to 350 mph and altitudes up to 50,000 feet. It has a drag force of 0.41 lbs. @ 250 mph. Frequency: 1030-1090. ..... P/N 11-15405 ..... ---

RAMI AV-21 RADIO TELEPHONE ANTENNA

The AV-21 is a rod style broadband radio telephone antenna which utilizes a BNC connector that allows for a smaller mounting hole. The antenna is designated to operate at speeds up to 350 mph and altitudes up to 50,000 feet. It has a drag force of 0.41 lbs at 250 mph..... P/N 11-16525 ..... ---

RAMI TRANSPONDER/DME ANTENNA (AV-74)

The AV-74 (.425 Stud Length) & the AV-74-1 (.800 Stud Length) are a broadband blade type antenna for transponders or DME application. The antenna housing is constructed of an acrylonitrile-styrene-acrylic (ASA) shell. The white color allows maximum performance without losses due to color pigments or unseen dirt. The antenna is supplied with cellular neoprene mounting pad and hardware. The antenna is designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 0.09 lbs @ 250 mph. This antenna is a direct replacement for the CI-105. • **Application**: Transponder/DME • Frequency: 960 - 1220 MHz • Impedance: 50 Ohms Nominal • VSWR: 1.5:1 Maximum • Polarization: Vertical • Pattern: Omni-Directional • Connector: "BNC" Female • Max Height: 3.4" • RF Power Capacity: 2.5 kW Peak • FAA TSO: C66c, C74c.

AV74 (.425 Studs) ..... P/N 11-05846 ..... ---
AV74-1 (.800 Studs)..... P/N 11-13996 ..... ---

AV

RAMI ANTENNAS

ALL LISTED RAMI ANTENNA SPECIALISTS HAVE 50 OHM IMPEDANCE. FOR SPEEDS TO 250 MPH AND 25,000' ALTITUDE.

AV-10 COMMUNICATIONS ANTENNA

4-bolt design. Designed for high-performance aircraft applications. Identical in mounting and appearance to Cessna communications antennas. Rated to 250 knots. Equivalent to Comant CI-121 Antenna. Wt. 8 oz. Ht. 17-1/2" Application: Airborne Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 2.0 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type "BNC" Female Max Weight: 8 oz Max Height: 20-1/4" RF Power Capacity: 25.....P/N 11-12500 ..... ---

PUBLIC SERVICE AND BUSINESS BAND ANTENNA AV-14

Available in 4-bolt design.Features a tapered glass laminate housing and die-cast aluminum base. Rated to 250 knots. Equivalent to Comant CI-177-1. Wt. 8oz. Ht. 17.5" Application: Airborne Communications Frequency: 138 to 174 MHz Impedance: 50 Ohms Nominal VSWR: 2.0 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type "BNC" Female Max Weight: 8 oz Max Height: 17-1/2" RF Power Capacity: 25 Watts.

P/N 11-12600 ..... ---

AV-17 COMMUNICATIONS ANTENNA

4-bolt design for mounting to the underside of an aircraft. Low profile configuration makes it ideal for helicopters and low-wing aircraft. Equivalent to Comant CI-122 antenna. Wt. 8 oz. Ht. 8-3/4" Application: Airborne Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 3.0 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type "BNC" Female Max Weight: 8 oz Max Height: 8-3/4" RF Power Capacity: 25 Watts .....P/N 11-12700 ..... ---

ANTENNA AV-64 - Marker beacon antenna designed for very low drag. Supplied with cellular neoprene mounting pad and hardware. Designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 0.22 lbs @ 250 mph.....P/N 11-06994 ..... ---

RAMI AV-289 TRANSPONDER / CELLULAR / WIFI / UMTS ANTENNA

The AV-289 is a broadband blade type antenna for application such as transponder, cellular, 4G, GSM, PCS, WIFI, and UMTS, however, it is FAA qualified as a transponder antenna. The antenna housing is constructed of a Polyarylamide Plastic shell and the base is 6061-T6 aluminum with a chemical conversion coating mer MIL-C-5541. The antenna is supplied with an o-ring and mounting hardware. The antenna is designed to operate at speeds up to Mach 1 and altitudes up to 55,000 feet.

P/N 11-16526 ..... ---

RAMI AV-401 ANTENNA - ROD & WHIP

121.5, 243 & 406 MHz. 50 Ohms, BNC connector.

P/N 11-14041 ..... ---

RAMI ANTENNA ROD WHIP TYPE - AV-402

RAMI rod/whip type antenna is intended for use with an ELT (Emergency Locator Transmitter) for general aviation. It is a passive three frequency fiberglass rod whip antenna, designed for low speed aircraft (up to 350 knots).....P/N 11-14043 ..... ---

AV-100 ELT ANTENNA

This FAA/TSO antenna is intended for use with an ELT (Emergency Locator Transmitter) for general aviation. It has a passive two frequency wire whip, designed for low speed aircraft (up to 250 knots). Frequency: 121.5 MHz, 406 MHz. .....P/N 11-10839 ..... ---

RAMI WHIP ANTENNA AV-200

The AV-200 ELT antenna is: Whip type, 121.5 and 406 MHz and intended for use with an ELT (Emergency Locator Transmitter) for General Aviation. It is a passive two frequency wire whip, designed for low speed aircraft (up to 250 knots).

Rami whip type ELT Antenna - White.....P/N 11-12892 ..... ---
Rami whip type ELT Antenna - Black.....P/N 11-14040 ..... ---

ANTENNA AV-530

Designed for broadband communications. Has a die-cast aluminum base and a tapered stainless steel whip for less drag at higher airspeeds. Supplied with a weather-sealing gasket and mounting hardware. Designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 1.65 lb @ 250 mph.

P/N 11-06696 ..... ---

AV-535 ANTENNA

The AV-535 is a "Bent Whip" antenna suitable for belly mounting. It is designed to operate in the public service and business bands. The antenna is rated at speeds up to 350 mph and altitudes up to 50,000 feet. It is a direct replacement for the CI 292-3. Frequency: 138-174 MHz.

P/N 11-10845 ..... ---

RAMI AV-601 RADAR ANTENNA

The AV-601 antenna is designed specifically to meet FAA TSO-C87a specifications. Qualification testing includes meeting the requirements of EUROCAE ED-30, Edition 2, "Minimum Performance Standards for Airborne Low Range Radar Altimeter Equipment", as modified by Appendix 1 of the TSO.

P/N 11-16527 ..... ---

RAMI AV-701 ELT ANTENNA

This antenna is intended for use with an ELT (Emergency Locator Transmitter) for general aviation. It is a passive single port three frequency aircraft blade antenna, designed for high speed aircraft. The circuit Board Housing is made from Polycarbonate.

P/N 11-16528 ..... ---

RAMI AV-924 TRANSCEIVER ANTENNA

The AV-924 antenna was developed to be used with airborne FM transceivers typically used in first responder type aircraft providing a single antenna solution for the multiband transceivers. It meets DO-160G, section 8, Category U requirements for robust vibration and is qualified for installation on helicopters with unknown related rotor frequencies.

P/N 11-16529 ..... ---

AV-925 ELT ANTENNA - The AV-925 antenna was developed to be used with airborne FM transceivers typically used in first responder type aircraft providing a single antenna solution for the multiband transceivers. It has met DO-160G, Section 8, Category U requirements for robust vibration and is qualified for installation on helicopters with unknown related rotor frequencies. It is also qualified to perform as a 406 MHz ELT antenna, and is well suited for this function on higher speed, fixed wing aircraft.

P/N 11-10846 ..... ---

AV-520 VOR/LOC/GS ANTENNA

The AV-520 FAA/TSO is a "V" style V OR/LOC/GS antenna utilizing detachable painted stainless steel elements and internal balun transformer. The antenna is rated at speeds up to 350 mph and altitudes up to 50,000 feet. It is a direct replacement for the CI 159C. Frequency: 108–118 / MHz 329-335 MHz.

AV-520 VOR/LOC/GS TSO.....P/N 11-10840 ..... ---
Whip Element For AV-520 .....P/N 11-14062 ..... ---

AV-525 VOR/LOC/GS ANTENNA

The AV-525 FAA/TSO is a VOR/LOC/GS antenna similar in style to the AV-12 but utilizes an internal balun transformer. The antenna is rated at speeds up to 350 mph and altitudes up to 50,000 feet. It is a direct replacement for the CI 157P. Frequency: 108-118 MHz (VOR/LOC) / 329-335 MHz (GS).P/N 11-10841 .....

RAMI VOR ANTENNA

The AV-532 is a VOR/LOC/GS receive only antenna which consists of taper ground high-strength 17-7PH stainless steel elements to reliably withstand vibration and wind loads. The insulators are weather-sealed compression-molded bakelite with the mounting holes provided. The unit may be mounted with the V pointed either forward or aft. The antenna is designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 3.42 lb @ 250 mph. A 30 ft. transmission line with integral balun is also supplied.

P/N AV-532 (without Cable) ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ANTENNA DM N4-17/N - VOR/LOC/GS BAL. LOOP SYSTEM (DM N4-17/N) Single Output -- Frequency VOR/LOC 108-118 MHz -- GS 329-335.3 MHz Frequency Range: VOR/LOC 108-118 MHz GS 329-335.3 MHz VSWR: 5.0:1 max Polarization: Horizontal Radiation Pattern: VOR/LOC Omnidirectional GS Forward Pointing Gain: 0 +/- 2 dB Impedance: 50 Ohms Lightning Protection: dc short Weight: 1.32 lbs Connector: BNC Female Cable Length: 27 inches Side Load: 17 psi FAA Approval: C34e, C36e, C40c D0138 ENV. CAT. AA5XXXXXHDXS.
P/N 11-05859 ..... ---

VHF DIPLEXER COUPLER - Splits the signal from a single antenna into two NAV receivers; eliminating the need for a second antenna. **Application**: Navigation Frequency: 108 to 118 MHz Impedance: 50 Ohms Nominal VSWR: 1.4 to 1 Maximum Connector: (3) Type "BNC" Females Max Weight: 3.5 oz Insertion loss: 3 dB Avg / 5 dB Max Isolation: 30 dB Minimum **Dimensions**: 2" x 1-3/3" x 1-1/8" RF Power Capacity: Receive only
P/N AV-547 ..... ---

RAMI ANTENNA COUPLER / 50 OHMS - AV-586
The AV-586 antenna coupler is an antenna signal splitter that provides two outputs from a single antenna. The AV-586 is designed to provide the necessary signals to two newer navigational radios that only have one antenna input to receive VOR/LOC/GS signals. .....P/N 11-14044 ..... ---

RAMI ANTENNA COUPLER / 50 OHMS - AV-587
The AV-587 antenna coupler is an antenna signal splitter/diplexer that provides three outputs for antennas with only a single output port. One output provides a combined VOR/LOC/GS signal, a second provides a VOR/LOC signal, and a third output provides the GS signal. P/N 11-14046 ..... ---

VHF DIPLEXER SPLITTER - Splits the signal from a VOR NAV antenna into NAV and glide slope receivers. **Application**: Navigation & Glide Slope Frequency: 108-118 & 328-335 MHz Impedance: 50 Ohms Nominal Connector: (3) Type "BNC" Females Max Weight: 3.5 oz Filtering: 30 dB Min / 40 dB Avg Insertion loss: 1 dB Maximum Isolation: 38 dB Min **Dimensions**: 2" x 1-3/3" x 1-1/8" RF Power Capacity: Receive only.....P/N AV-570 ..... ---

VHF TRIPLEXER SPLITTER - Splits signal from VOR NAV antenna into two NAV receivers and one glide slope receiver. **Application**: Navigation & Glide Slope Frequency: 108-118 & 328-335 MHz Impedance: 50 Ohms Nominal Connector: (4) Type "BNC" Females Max Weight: 3.5 oz Filtering: 30 dB Min / 40 dB Avg Insertion Loss: 3.75 dB Maximum Isolation: 22 dB Min / 35 dB Avg **Dimensions**: 2" x 1-3/3" x 1-1/8" RF Power Capacity: Receive only.
P/N AV-571 ..... ---

AV-575 ANTENNA DIPLEXER/SPLITTER - The AV-575 FAA/TSO antenna is a marker beacon antenna splitter allowing two receivers to share the same antenna. It is a direct replacement for the CI 509. Frequency: 75.....P/N 11-10843.....---

AV-585 ANTENNA DIPLEXER/SPLITTER - The AV-585 FAA/TSO antenna is a diplexer/splitter providing (2) VOR/ LOC and (2) GS outputs from one VOR/LOC/GC antenna. It is a direct replacement for the CI 1125. Frequency: 108-118 MHz / 328-336 MHz.....P/N 11-10842 ..... ---

AV-926 TRIPLEXER - The AV-926 triplexer can be used with airborne multiband FM transceivers. The device is designed to provide three separate frequency band ports (typically going to a multiband transceiver) from a single port multiband antenna.
P/N 11-10847 ..... ---

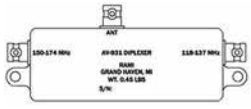
RAMI ANTENNA DUPLEXER SWITCH / 50 OHMS - AV-590 - The AV-590 duplexer allows two communications radios to share one antenna. In normal, non-switched mode the AV-590 evenly splits the signal between two radio receivers. When the control voltage is activated by a microphone's PTT, the AV-590 switches the antenna to the corresponding radio transmitter and isolates the other receiver ..... P/N 11-14047 ..... ---

RAMI ANTENNA DIPLEXER / 136-174 & 380-520 MHZ - AV-927 - The AV-928 diplexer can be used with airborne multi-band FM transceivers and is deigned to provide two separate frequency band ports from a multi-band antenna with a single output port. AV-928 diplexer frequency outputs: 136 - 174 MHz and 380 - 520 MHz. .....P/N 11-14048 ..... ---

RAMI ANTENNA DIPLEXER / 136-174 & 760-870 MHZ - AV-928 - The AV-928 diplexer can be used with airborne multi-band FM transceivers and is deigned to provide two separate frequency band ports from a multi-band antenna with a single output port. AV-928 diplexer frequency outputs: 136 - 174 MHz and 760 - 870 MHz. .....P/N 11-14049 ..... ---

RAMI ANTENNA DIPLEXER / 380-520 & 760-870 MHZ - AV-929 - The AV-929 diplexer can be used with airborne multi-band FM transceivers and is deigned to provide two separate frequency band ports from a multi-band antenna with a single output port. AV-929 diplexer frequency outputs: 380 - 520 MHz and 760 - 870 MHz. .....P/N 11-14050 ..... ---

RAMI ANTENNA DIPLEXER / 136-174 & 380-870 MHZ - AV-930 - The AV-930 diplexer can be used with airborne multi-band FM transceivers and is deigned to provide two separate frequency band ports from a multi-band antenna with a single output port. AV-930 diplexer frequency outputs: 136 - 174 MHz and 380 - 870 MHz
P/N 11-14051 ..... ---



RAMI ANTENNA DIPLEXER / 118-137 & 150-14 MHZ - AV-931 - The AV-931 diplexer can be used with airborne multi-band FM transceivers and is designed to provide two separate frequency band ports from a multi-band antenna with a single output port. AV-931 diplexer frequency outputs: 118 - 137 MHz and 150 - 174 MHz
P/N 11-14052 ..... ---

COZY ANTENNA KIT - For composite Aircraft Antenna component kit for Canard Aircraft: Includes, copper tape and toroids to fabricate your own inexpensive, flexible antenna set for NAV, COM, MKR, ILS antennae. Antennae can be placed anywhere that they fit on fiberglass aircraft. This kit has the advantage of having all required parts for multiple (up to 8) antennae and are the most inexpensive antennae on the market.
P/N 11-11420 ..... ---

QUICKIE ANTENNA KIT - Simple installation procedure produces excellent communications antenna. Order additional kit for navigation antenna.....P/N 11-09800 ..... ---

Toroids Only - Used in our quickie antenna kit for

RAMI BALUN TRANSMISSION LINE / CABLE & BALUN ASSEMBLY

Rami AV Balun Transimission Line / Cable & Balun assembly.

Description	Part No.	Price
Rami Av-12 Balun Transmission Line	11-14056	---
Rami Av-532 Balun Transmission Line	11-14057	---
Rami Av-6 Balun Transmission Line	11-06992	---

ANTENNAS

BOB ARCHER AIRCRAFT ANTENNAS

These antennas have been designed by Bob Archer from Torrance, CA utilizing concepts common to military aircraft and space vehicles. The antenna performance is superior to most in use today in private aircraft. The only requirement for max. performance is that the antennas must be installed in accordance with the installation instructions. These antennas are designed to be installed inside fiberglass or other non-conductive wing tips or tail caps of metal or other conductive material aircraft.

SPORT AIRCRAFT ANTENNAS

MODEL 1A

This Wing Tip Com Antenna is designed to fit inside larger fiberglass wing tips on metal (conductive that is) airplanes such as T-18's, RV's Bonanzas etc. But tuned out for the Com Band. The wing tips must have internal dimensions of at least 11"x24" and generally fit better on the bottom surface. The VSWR is normally less than 2.0:1 over a frequency band of 108 to 127 Mhz but could be higher due to installation factors. Offered because of pressure from RV builders. Users report good communications at ranges greater than 50 miles. Should be installed so that the maximum height of the tip is utilized to get the most vertical polarization.

Left Side.....P/N 11-21016-1 ..... ---
Right Side.....P/N 11-21016-2 ..... ---

MODEL 2

Tail cap Com antenna for metal (conductive) airplanes installed inside a tail top fiberglass fairing with inside dimensions of at least 10" high x 12" long. VSWR is normally less than 2.0:1 over a COM frequency band of 118 to 136 Mhz.....P/N 11-21020 .....

MODEL 4

Wing tip VOR antenna designed for smaller tips with a 10 degree flare on the top portion and a curled aft portion. VSWR less than 2.0:1 over the frequency band of 108 to 118Mhz.

Right Side.....P/N 11-21025-1 ..... ---
Left Side .....P/N 11-21025-2 ..... ---

ANTENNAS FOR COMPOSITE AIRCRAFT

MODEL 6

This com antenna is designed to be installed on the inside surface of the aft fuselage of composite and wood aircraft. It is a dipole that is folded up to minimize the vertical dimension and requires 12" of fore and aft space and 26.5" vertically. It is designed with flexibility so it can match the internal curvature of the fuselage. The VSWR is less than 2:1 across the com frequency band.....P/N 11-21000 ..... ---

MODELS 7 & 8

These antennas are essentially the same with the exception of the overall length and the matching devices with the com antenna being installed vertically and the nav antenna being installed horizontally. VSWR is less than 2:1 over their respective frequency bands. The outer ends of these antennas may be swept to +/-30° to facilitate installation in various aircraft types.

NAV Antenna Model 7.....P/N 11-21030 ..... ---
COM Antenna Model 8.....P/N 11-21035 ..... ---

ARCHER MARKER BEACON ANTENNA

Marker Beacon antenna kit. Consists of 40″of copper tape (1/4 wave length) and enough coax cable for most installations in fuselage area, plus hardware. Works fine in glass wing tips and fuselages or wing to fuselage gap seals. .....P/N 11-14517 ..... ---

NOTE: When ordering wing tip antennas, order antennas with -1 suffix if installing on the bottom inside surface of a left hand tip or upper inside surface of a right hand tip. Order antennas with a -2 suffix if installing on the inside lower surface of a right hand tip or the upper inside surface of a left hand tip. Wing tip Com antennas should be installed only on lower inside surfaces.

RED TAIL AIRBAND ANTENNA

Bent (bottom) Airband Whip Antenna. Non-TSO'd for Experimental aircraft. Delta Pop Aviation Red Tail™ Frequency - 118 to 137 MHZ. VSWR - Less than 2.5:1 Measured with Anritsu Antenna Analyzer. Polarization - Vertical. Impedance - 50 Ohms. Connector - BNC Female. Element - Tapered Aluminum UV Resistant Powder Coated. Configuration - DC Grounded To Reduce "P" Static. Mounting - 8-32 x .437" long threaded studs. Weight - 6.5 oz / 184 grams. Finish - White Polyurethane.

Bent (Bottom) .....P/N 11-13829 ..... ---
Straight (Top).....P/N 11-13828 ..... ---

RED TAIL TRANSPONDER ANTENNA

Streamlined Transponder Antenna. Non-TSO'd for Experimental aircraft. The Delta Pop Aviation streamlined transponder Antennas are the best non-TSO'd antennas we have found, and they offer a low drag solution at a good price. Frequency - 1030 to 1090 MHZ. VSWR - Less than 1.2:1 Measured with Anritsu Antenna Analyzer. Polarization - Vertical. Impedance - 50 Ohms. Connector - BNC Female. Mounting - 8-32 x .437" long threaded studs. Weight - 2.6 oz / 74 grams. Finish - White Polyurethane .....P/N 11-13830 ..... ---

WSI WEATHER/SIRIUS RADIO ANTENNA

Operates with all new WSI InFlight® capable receivers. The antenna receives Sirius Satellite Radio broadcasts to enable the WSI weather service. It was designed specifically to suppress interference from ground based signals. Its proprietary design allows for optimum performance while the aircraft is turning. The antenna has been thoroughly tested and meets all of the RTCA DO-160E requirements..... P/N 11-05937 .....

GARMIN GA 35S TSO WAAS GPS ANTENNA

This external, active GPS antenna is suitable for all WAAS panel-mount GPS systems. The low-profile, teardrop antenna provides excellent reception, and it attaches through the fuselage via screw mount, sharing the same hole pattern with the GA 56 antenna. Reference the G3X™ installation manual for detailed instructions. Antenna connection is female TNC out. ..... P/N 11-20431 ..... ---

ANTENNA WIRE

COAXIAL CABLE - RG-58U – Tinned copper conductor, solid polyethelane dielectric. Standard cable for radio installations. For experimental aircraft only.....P/N 11-04258 .....**---/ft**

TYPE RG-400U – Tinned copper conductor, PVC Type IIA jacket. FAA approved for certificated aircraft.....P/N 11-09202 .....**---/ft**

Bulk Pricing Available.

BNC COAXIAL ANTENNA CONNECTORS FOR RG-58U CABLE

Male.....P/N 11-03992 ..... ---
Female.....P/N 11-03993 ..... ---

BNC COAXIAL ANTENNA CONNECTORS FOR RG-400U CABLE

Male.....P/N 11-01802 ..... ---
Female.....P/N 11-01803 ..... ---

ANTENNA INSULATORS

(1) Feed-Thru Insulator for lead-in wire from fixed antenna. Type 4125. 10-32 threads, 3" length tip to tip, 1-9/16" casing .....P/N 11-10500 ..... ---

(2) Strain Insulator for receiver antenna.
P/N 463 ..... ---

TED TRANSPONDER ANTENNA

This monopole transponder/DME antenna meets the same specifications and is a direct replacement for the CI-101 and AV-22 antennas. Exceptional performance and value.....P/N 11-17995 .....

AVIATION BAND TRANSMIT/RECEIVE ANTENNA

For FBOs and other airport facilities, this Air Band antenna is designed to operate on the 108 to 137 MHz band. Transmit power of up to 75 Watts. The antenna base will accept either a BNC or PL-259 connector (adapter included, no coax included). Mast mount works with mast diameters of up to 3 inches. Weatherproof design. Length: 48". For best results, mount the antenna as high as possible and away from nearby structures.
P/N 11-19796 ..... ---

COPPER ANTENNA FOIL TAPE 3/8"

Used as an antenna ground in composite aircraft.
P/N 11-12900 ..... ---

TORROIDS (FERRITE BEADS)

Used in our quickie antenna kit for composite aircraft.
P/N 11-09900 ..... ---

AV

KLEIN WIRE STRIPPERS / CUTTERS

12-00234 12-00236 12-00235 12-00233

Klein wire strippers and cutters cut, strip, gauge and loop a wide range of wire types and sizes. Made of strong, hardened steel with comfortable handles, these tools are durable and long lasting.

Part No.	Description	Price
12-00234	Strips 16 to 26 AWG stranded wire, easy-to-read wire gauge markings, comfortable handles with cushion ridges.	---
12-00236	Solid and Stranded. Double-dipped comfort grips with curved handles, cuts, strips, loops and gauges 20-30 AWG solid wire and 22-32 AWG stranded wire, cleanly shears 6-32 & 8-32 screws, coil spring provides fast, self-opening action.	---
12-00235	Solid and Stranded. Double-dipped comfort grips with curved handles, cuts, strips, loops and gauges 10-18 AWG solid wire and 12-20 AWG stranded wire, cleanly shears 6-32 & 8-32 screws, coil spring provides fast, self-opening action.	---
12-00233	Strips 10 to 18 AWG solid wire, easy-to-read wire gauge markings, comfortable handles with cushion ridges.	---

BANTAM ROTA-CRIMP TOOL

The AMP Bantam Rota-Tool crimps uninsulated terminals and splices for No. 8 to 1/0 sizes. The correct die position is selected by rotating dies to correct AWG number. Dies are fixed in tool to avoid loss. Compact, rugged and easy to handle. 15" long. Wt. 5 lbs. Not for certified Aircraft use.....P/N 601075 ..... ---

BALLPOINT HEX SOCKET DRIVER

3/32" Ballpoint Hex Socket Driver for use on hex head screws and nuts.
***This tool is commonly used with most avionics units like Honeywell Bendix/King and Garmin**.....P/N 12-02063 ..... ---

HAND CRIMP TOOL GMT232

The GMT232 Hand Crimp Tool crimps low profile environmental splices. The GMT232 is the most popular tool to cover the range of 12 (yellow), 16 (blue), and 20 (red) splices for low profile environmental splice applications. The GMT232 has a locator which is configured to hold the splice in the correct location while either wire is being terminated. This tool is comparable to the popular Tyco AD1377.....P/N 11-08692 ..... ---

LITTLE BLUE CRIMPER

The Daniels AFM8 is designed for most of the miniature and sub-miniature connector types that are so widely used in all types of electronic systems. Originally developed for the Air Force, the AFM8 meets the need for a miniature tool accommodating wire sizes 20 thru 32 AWG. The cycle controlled precision ratchet assures consistently accurate crimps every time. The tool has a built-in eight step selector knob for ease in dialing the correct crimp depth setting for the wire being used.
Little Blue Crimper.....P/N 11-04443 ..... ---
Adapter K13-1 For Low Density Pins.....P/N 11-12211 ..... ---
Adapter K42 For High Density Pins .....P/N 11-12212 ..... ---

BIG BLUE CRIMPER

The Daniels AF8 has virtually limitless application within the specified wire range of 12 thru 26 AWG. Over 1,000 turret heads or positioners are available to adapt the tool frame to your specific military or proprietary contact/wire combination. The eight impression crimp, which is standard in the AF8, assures absolute maximum tensile strength with almost every closed barrel contact. The precision ratchet controls cycling on the tool in both directions of handle movement. This assures the same, accurate crimp every time. It's like having a quality control inspector at every work station.....P/N 11-04442 ..... ---

AMP PRO CRIMPER II HAND TOOL

The PRO-CRIMPER II Hand Tool provides the versatility of general-purpose service of general-purpose service tools along with the reliability and ease of use of many premium-grade tools For versatility, 75 die sets (available separately) are interchangeable, including those for open-barrel contacts and terminals. Additionally, many of these die sets have multiple cavities for crimping a variety of contact or terminal sizes.
Pro Crimper II 58433-3.....P/N 12-01379 ..... ---
O-Crimp Die 58435-1 .....P/N 12-01380 ..... ---
Hex Crimp Die 58436-1.....P/N 12-01381 ..... ---
Pin & Socket 58495-2 .....P/N 12-01382 ..... ---

CRIMPING/CUTTING TOOL

This tool is designed to crimp insulated and non-insulated 10 to 20 AWG solderless terminals & connectors. It has easy-to-read tool markings to identify the insulated or noninsulated crimping dies. Its tapered nose design works well in tight places and has specially hardened cutter in th nose for quick, clean cuts. Size: 9.75". Lifetime warranty. .....P/N 12-00698 ..... ---

CRIMPMASTER CRIMP TOOL FRAME

Crimpmaster Crimp Tool Frame Only. 1.26lb.
30-506 Crimp tool
P/N 11-08686 ..... ---
Die Set Hex for the 30-506
P/N 11-08687 ..... ---

CRIMPMASTER™ CRIMP TOOL

for #22 to #10 AWG (.324mm2 - 5.261mm2) Insulated Ring Tongue Terminals and Splices Features: Provides good and consistent crimp every time, Dies change quickly and easily with a screwdriver, Interchangeable dies provide versatility in a single tool, Cushioned, comfort-grip handles
30-500 Crimp tool.....P/N 11-08688 ..... ---

CRIMP TOOL (HX4) CRIMP TOOLS

The DMC HX4 Crimp tool features a system of interchangeable dies which eliminate the need of separate fixed die crimp tools for each and every different application. Many maintenance and manufacturing concerns have standardized on this model, thus eliminating the cost associated with maintainaing and calibrating bulky inventories of single purpose tools. Length: 11" Weight: 11 oz.
H4X Crimp Tool.....P/N 11-08690 ..... ---
Die set 5-24 AWG.....P/N 11-08691 ..... ---

AV

SEE THE TOOLS SECTION OF THIS CATALOG FOR ASTRO TOOL CRIMPERS

AVCOMM AC-2EX PORTABLE INTERCOM

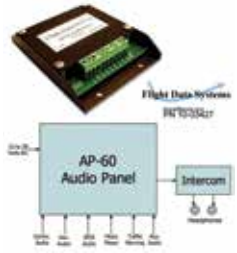
Measuring a mere 5.1" by 2.85", it is designed to produce powerful communications you can depend on. The compact design makes it easy to carry in your flight bag, a feature pilots who rent aircraft will especially appreciate. Need 4 positions? Simply add the AC-2XM module to accommodate additional passengers.
Features: • AVCOMM's Expandable Portable: 2 to 4 place • Rugged compact design • Two 9V batteries with quick access or 12-28V DC power • Stuck mic' indicator & Power-transmit LED • For use with mono or stereo headsets • Pilot priority PTT • Fail safe feature • Wt: 14.1 oz. • Full 3 year factory warranty.
P/N 11-02264 ..... ---

DRE D-205E INTERCOM ACCESSORIES

Auxiliary power cord for Headsets Inc.-205e Intercom.
DRE-205E Aux. Power Cord ..... P/N 11-09585 ..... ---

Mounting bracket for the Headsets Inc.-205e portable intercom.
DRE-205E Mounting Brackets .... P/N 11-09577 ..... ---

FLIGHT DATA SYSTEMS AP-60 AUDIO MIXER



An Audio Mixer is Required any time there is more than one Audio Source. This unit mixes and amplifies six audio inputs. Mounts behind the instrument panel.
For Example: • Communications Radio Audio • Navigation Radio Audio • EFIS Warning Audio • Music Player Audio • Traffic Warning Audio
Specifications: • Aux. Audio Input • Compact (2.5" X 3.4 X .6"), Lightweight (2.1 oz) • 12-28 Volt Compatible • No Special Tools Required For Installation
P/N 10-03427 ..... ---

NAV-DATA 4 PLACE INTERCOM

This Four place intercom is packed with features only found in much more expensive units. Failsafe feature for pilot in the event of power loss. Pilot isolate switch. Oprates on one 9 volt battery. Adjustable squelch (mute). Voice activated (VOX). Built in push to talk switch. Music in / Record out jacks.
P/N 13-06088 ..... ---

FLIGHTTECH ITC-2004 ENR 4-PLACE INTERCOM

4 place portable intercom with pilot isolate capability. **Features:** Exclusive Electronic Noise Reduction circuits. Up to 110db of Noise Reduction. Continues Audio, No missed Syllables or Words. Built-in Cellular Phone Interface, includes patch cable. Pilot/All Switch. 9 Volt Battery or External DC Operation, Cigarette Lighter Adaptor included. Auxiliary Stereo Audio Input with Radio Mute and Intercom Audio Mute. Light weight, 10 oz. Push-to-Talk Button for Keying the Comm Radio. Pilot and CoPilot Radio PTT Jacks. Small Size: 5.5" x 1.5" x 3.2" Three Year Warranty ..... P/N 11-17669 ..... ---

FLIGHTTECH ITC-401SJ INTERCOM

• Exclusive Background Noise Reduction Technology • Continuous Audio, No Missed Syllables or Words • Up to 110db of Noise Reduction • Single Volume Control • Built-In Cell Phone/Aux Audio Interface • 9 Volt Battery Operation • External DC Power Jack and Power Cord • PTT for Keying Comm Radio • Small Size: 4" x 2.5" x 1.5' • Compatible with headsets with Electret Microphones • Three Year Warranty.
P/N 11-09736 ..... ---

PS ENGINEERING PM 1000II 4 PLACE MONO PANEL MOUNT INTERCOMS

PS Engineering's renowned voice activated intercom (VOX) eliminates clipped words and shouting. Other features include individual volume and squelch controls for the pilot and copilot. Music can be added to the intercom for in-flight entertainment. Automatic muting when the intercom is active, or intercom and radio (PM 1000II-series) ensures uninterrupted communications. PS Engineering's "SoftMute" gradually returns the music to the original level when conversation stops. PM 1000 is an effective 2-place intercom, with individual volume and squelch controls, while the 4-place PM 1000II adds a transmit indicator lamp, and music muting during radio traffic. The PM 1000II, 11-11922, has pilot isolate mode that allows the pilot to concentrate on flying, while the passengers enjoy music and conversation. The PM 1000II with CREW mode (P/N 11-11920) allows for separate intercom for the pilot and copilot positions, as well as separate music sources for front and back. On all PS Engineering intercoms a wire harness must be done by PS Engineering or a PS Engineering dealer or warranty is void. For a quote on 11-11922 PM 1000II with out crew wire harness, on 11-11920 PM 1000II with crew wire harness, or on 11-02553 please call 800-826-3160. Warranty: 1 year.
PM1000II 4-Place Intercom ..... P/N 11-11922 ..... ---
6-pl. for expansion module ..... P/N 11-02555 ..... ---
Jack Kit (4-Place) ..... P/N 11-11910 ..... ---
2-1/4" Mounting Plate with out Crew ..... P/N 11-14360 ..... ---

PM 3000 PANEL MOUNT STEREO INTERCOM

The world's first stereo intercom to be FAA-TSO approved. Available in 4- & 6-place versions. The 4-pl. PM 3000 (P/N 11-11931) features pilot isolate and "All" reception modes. The PM 3000 6-place (P/N 11-00851) intercom includes a "CREW" mode. In CREW mode, the pilot & copilot are on one intercom channel, while passengers have conversation on another. Constant squelch adjustments are eliminated with the PM 3000. A single squelch knob controls multiple circuits making the intercom one of the quietest to use, even in the noisiest airplanes. The 6-place PM 3000 provides for two independent stereo entertainment inputs. This gives the passengers and the crew each the option to listen to their music device. The PM 3000 has an automatic fail-safe interconnect to the aircraft systems. If power to the intercom is disrupted, the pilot's headset is automatically connected to the aircraft radio. With the PM 3000 installed, both pilot and copilot have transmit capability over the aircraft radio. A 2-color LED shows green when power is on, and red during radio transmissions. This feature acts as a stuck microphone indication. On On all PS Engineering intercoms a wire harness must be done by PS Engineering or a PS Engineering dealer or warranty is void. For a quote on the PM 3000 4 place or 6 place please call.
PM 3000 4-Pl. Stereo Intercom (w/o digital recorder) – single music input. Installation hardware includes four sets of headset jacks, a music jack and reversible (horizontal and vertical) metal mounting plate.
P/N 11-04843 ..... ---
2-1/4" Mounting plate (w/o crew) ..... P/N 11-00394 ..... ---
PM 3000 6-Pl. Stereo Intercom (w/o digital recorder) – dual music input. Installation hardware includes six sets of headset jacks, two music jacks and reversible (horizontal and vertical) metal mounting plate.
2-1/4" Mounting plate (with out crew) ..... P/N 11-00394 ..... ---

COMTRONICS ULTRA-COM II INTERCOM

Comtronics very popular two-place portable intercom was designed for pilot/copilot communication in high noise environments. Separate volume controls are adjustable by either pilot or passenger to meet individual hearing needs. This intercom can be used as an intercom only or a complete package with the addition of a single transceiver using a matching Comtronics radio interface cable with push-to-talk switch. The ULTRA-COM II integrates directly with all Comtronics headsets and helmets providing air-to-air and air-to-ground communication. This intercom includes a 3-foot adapter cord connecting to various external inputs such as a radio interface cable with push-to-talk switch for a single transceiver ..... P/N 11-07430 ..... ---

SKYCOM 200 PORTABLE INTERCOMS

Measures just 2.25"x1.38"x 2.75". Portable & Compact. Pilot/Co-Pilot Volume Controls. Adjustable Squelch Circuit. Fail Safe Mode. Easy Battery Access. Powered by 9V Battery. 25-30 Hours Battery Life
SkyCom 200E 2-Place Intercom ..... P/N 11-11860 ..... ---
SkyCom 200E 4-Place Intercom ..... P/N 11-11865 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PMA 4000 PANEL MOUNTED AUDIO PANEL/INTERCOM

Offers the simplicity of IntelliVox˙- automatic intercom squelch. Designed with the kit and homebuilt in mind, the PMA 4000 has 2 Com and 2 Nav inputs, along with 4 additional unswitched inputs. The PMA 4000 is a monaural 4-place intercom. A speaker amplifier is included. The copilot volume control can also be remote controlled, for tandem aircraft. On all PS Engineering intercoms a wire harness must be done by PS Engineering or a PS Engineering dealer or warranty is void. For a quote on the PMA 4000 harness please call.

PMA 4000 w/o Recorder ..... P/N 11-01634 ..... ---
2-1/4" Mounting plate ..... P/N 11-00395 ..... ---

PS ENGINEERING PM 1200 2 PLACE MONO HIGH NOISE PANEL MOUNT INTERCOM

The PM 1200 is a 2-place panel mount intercom designed for the loudest of aircraft. If you fly Warbirds or other extremely noisy aircraft, PM 1200 is perfect. Incorporating IntelliVox with our new Active Mic Processor (AMP), the PM 1200 dynamically reduces noise inadvertently picked up by the Mic. It also supplies up to 120mW of headset audio. On all PS Engineering intercoms a wire harness must be done by PS Engineering or a PS Engineering dealer or warranty is void. For a quote on the PM 1200, or the PM 1200 blind mount click here. Specifications: Height: 1.25 inches, Width: 3.0 inches, Depth: 5.50 inches, Weight: 12 ounces, Power Required: 12-24 VDC, Warranty: 1 Year, Unit is not TSO'D.

P/N 11-01671 ..... ---

SIGTRONICS SCI-4 INTERCOM

The SCI-4 from Sigtronics features dual squelch indicator lights and dual volume and squelch controls to control volume and squelch independently for front and back seats, crew/pilot isolate and pre-wired harness for easy installation. The SCI-4 is RFI and EMI immune and measures only 1"x 2.5". Includes all hardware and jacks needed for installation. SCI-S4/S6 Intercoms have the same features as SCI-4/6 Intercoms plus music inputs. 5-yr warranty. Made in USA.

SCI-4 4-place ..... P/N 11-00027 ..... ---
SCI-6 6-place ..... P/N 11-00028 ..... ---
SCI-S6 Stereo 6-place ..... P/N 11-00425 ..... ---
SCI-S4 Stereo 4-place ..... P/N 11-00424 ..... ---

SIGTRONICS MINIATURE PANEL-MOUNTED INTERCOMS

Measuring only 1" x 2-1/2" x 4" deep, only 4.5 oz, the SPA-400 and 6-place SPA-600 are FAA TSO'd and can be mounted either horizontally or vertically. Also available in special "HIGH-NOISE" model SPA-400N for Ultra-lights, and open cockpit aircraft, kit aircraft and warbirds. The se intercoms allow you to put "push-to-intercom" buttons in the aircraft to eliminate VOX mode when desired. This is especially good for open-cockpits where wind noise can be a problem. The SPA-400N simulates side-tone because some radios that are currently used in these markets do not have it. The SAS-440 and SAS-640 intercoms feature Sigtronics' exclusive "Auto-Squelch". One touch of the squelch button and the intercom perfectly sets the squelch level to your headsets and the aircraft noise level. All Sigtronics intercoms are voice activated with a 5-year warranty and operate on any voltage from 12V to 24V. Made in USA.

2 Thru 4 Way (Standard SPA-400 ..... P/N 11-02791 ..... ---
6 Way (Standard) SPA-600 ..... P/N 11-02801 ..... ---
4 Way (High Noise) SPA-400N ..... P/N 11-02792 ..... ---
6 Way (Auto Squelch) SAS-640 ..... P/N 11-02816 ..... ---
6 Way (High Noise) SPA-600N ..... P/N 11-19513 ..... ---
Retrofit stereo switcher-use with previously installed
SPA-400 intercom - RES-401 ..... P/N 11-02796 ..... ---

SIGTRONICS SPORT 200/200S INTERCOM

Optimized for the High Noise Environment. Sigtronics 2-place Sport 200 & Sport 200S Intercoms are designed specifically for Light-Sport and Ultralight aircraft. Tested at ambient noise levels of up to 120dB, their Sport series intercoms will outperform all other intercoms on the market. modes of operation, voice activated squelch and push to intercom — perfect for open cockpit aircraft, give the Sport 200 intercoms maximum flexibility and performance. To this they added special internal circuitry to optimize the intercoms for the most demanding high noise environments. Use Satellite Radio, MP3 or CD players as your audio source with stereo headsets for true stereo sound. With full or partial music muting for intercom and full mute for radio reception and transmission, you will be able to enjoy your music and never miss a radio call. Size: 1" x 2.5" x 4"deep. For even more convenience you can mount the intercoms horizontally or vertically. All hardware including headphone and microphone jacks are included with these easy to install intercoms. Weight: 4.5 oz., Jacks & wiring harness: 5.5 oz.; Input power: 11VDC - 32VDC; Current: 0.06 am

SPORT 200S Stereo panel mount int ..... P/N 11-02885 ..... ---
SPORT 200 Intercom ..... P/N 11-02884 ..... ---

SIGTRONICS SPA-4S STEREO INTERCOM

The SPA-4S is a 2 or 4 place voice activated intercom with inputs for stereo music. It is a small, compact system that allows it to fit in space critical panels. The SPA-4S uses the industry standard Sigtronics squelch, fast on slow off for hands free communication. The music will full mute during ATC communication and partial mute during intercom communication. Each intercom comes complete with all necessary mounting hardware, jacks, and two 4-foot pre-wired harnesses. The SPA-4S only requires 1" X 2.5" of panel space, mounts horizontal or vertically, is 4" deep, and weights 5.5 oz. The SPA-4S intercom can easily upgrade the SPA-400. The SPA-4S uses the same panel hole pattern and interface cable as the SPA-400. A second cable is provided for the music inputs and headphone outputs. The SPA-4SN is available for the high noise amateur built aircraft. As with all of Sigtronics products, the SPA-4S is RFI and EMI immune. Power: 11-32 VDC.

Standard SPA-4S ..... P/N 11-00567 ..... ---
High Noise SPA-4SN ..... P/N 11-00568 ..... ---

SIGTRONICS FACE - PLATE OPTION FOR INTERCOMS

This new faceplate fits the Sigtronics SPA-400, SPA-600 and SBD-800 voice-activated panel mount intercoms. Designed to adapt these compact units to the standard 2-1/4" instrument hole, the new printed bezel increases mounting flexibility and customer convenience. Made of durable and lightweight ABS plastic ..... P/N 11-08500 ..... **--- Ea.**

SIGTRONICS BATTERY POWERED PORTABLE INTERCOMS

5-year warranty and a sure-fit for all students, instructors and aircraft renters. All have a music input and Aux output for recording lessons and radio communications. Both pilot and co-pilot positions have PTT jacks. Powered by an internal 9V battery (included), good for 40 hours of operation in airplanes lacking a cigarette lighter socket. A 4' Aux power adapter is included. When using the power cord, the battery is by-passed, preserving the life of the battery. The 2-place SPO-22, 4-place SPO-42 and 6-place SPO-62 are compatible with all standard aircraft headsets. The 4-place and 6-place models have a satellite box for rear seat positions to keep unwanted headset cords out of the pilot's way. A special HIGH-NOISE model, perfect for Ultra-lights and Kit aircraft, is available in all configurations. It filters out background noise, lowers the input level at mic amp, increases output signal, and mic interface can be modified to interface with Icom radios. Also features a sidetone modification. Made in USA.

For 2 People (Standard) ..... P/N 11-02794 ..... ---
For 2 People (High Noise) ..... P/N 11-02793 ..... ---
For Up To 4 People ..... P/N 10-19115 ..... ---
For Up To 4 People (High Noise) ..... P/N 11-01799 ..... ---
For Up To 6 People ..... P/N 11-02798 ..... ---

PILOT USA PA200 SERIES INTERCOM

PA200 World's Smallest Portable Intercom. A solid VOX intercom offering clear communications. Adjustable volume control and squelch control allows for easy adjustment for all ambient noise levels. 2 push-to-talk switches can be used with the intercom allowing transmission through the radio. Unit is ideal for rental aircraft. PA 200R is also available for motorsports. **Features**: • On/Off volume control • Adjustable squelch circuitry • Fail-safe capability • Y-adapter for 2 push-to-talk switches • Powered by one 9V battery (24 hours) • Size: 2.25" x 1.38" x 2.75" •3-yr unconditional warranty • Wt: 8 oz. (227 grams)

PA-200T ..... 11-02712 ..... --- PA-200IK ..... 11-11530 ..... ---
PA-200IC ..... 11-03544 ..... --- PA-200V ..... 11-03545 ..... ---
PA-200TA2 .. 11-03542 ..... --- PA-200TA23 ... 11-03543 ..... ---

PILOT USA PA400 SERIES INTERCOM

The stereo version PA-400ST intercom is a portable design that has been used successfully in general aviation for over 18 years. No other intercom on the market has the features and capabilities of the PA-400ST intercom. This particular series has been recently modified to include a cell phone jack for your safety and convenience. Before using in an aircraft we recommend that you take a check-ride in your living room and become familiar with all the features of your new intercom. A hook-up diagram is included in this guide along with brief description of each function and each control setting.

PA400ST ..... P/N 11-03548 ..... ---

PILOT USA 2 PLACE INTERCOM FOR ICOM A14/A24

The PA-200T/A24 is a 2 Place Mono Intercom designed to be used with your ICOM handheld transceiver.

This unit will plug directly into ICOM A3, A6, A14, A22, and A24 Transceivers. This intercom is fitted with an AUX jack that can be used for cell/satellite phone calls or inputting music ..... P/N 11-19697 ..... ---

AV

FLIGHTCOM IISX PORTABLE INTERCOM

The IIsx is the world's most popular 2-place, portable intercom. The modular design offers expansion capability to the backseat if needed. • Expandable to 4-place portable with optional SR-4 expansion module • Auxiliary inputs and outputs for music or recording flight information • Low-battery indicator and pilot isolate • Uses aircraft power or 9-volt battery Flightcom IISX 2 place includes: • IISX Intercom • Cigarette lighter adapter • Co-pilot transmit cable Flightcom IISX 4 place includes: • All parts in the 2 place • SR-4 expansion module. **Specifications:** • Weight: 10.5 oz • Length: 4-1/4" • Width: 2-3/6" • Height: 2-5/16" • Mono • Aux Input: 3.5 mm jack for music • Aux Output: 3.5 mm jack for recording

Flightcom IISX 2 Place.....P/N 11-08700 ..... ---
Flightcom IISX 4 Place.....P/N 11-08710 ..... ---
SR-4 Remote Expansion module.....P/N 11-04260 ..... ---

FLIGHTCOM 403MC PANEL MOUNT INTERCOM

The 403 is a 6-place panel mount, voice-activated mono intercom. This easy to use intercom is designed to fit almost anywhere in the panel. Includes:• 403MC Intercom • Connector kit • 4 place mono jack kit. **Features**: • 3-position transmit capability • Selectable muting and pilot isolate • Auxiliary input for music or alerts • Rectangular faceplate can be mounted horizontally or vertically Specifications: • Weight: 3.6 oz • Length: 2.62 in • Width: 2.37 in • Height: 1 in • Not TSO'D • Power requirement: 12-28 VDC • Two-year warranty

P/N 11-08755 ..... ---

PILOT USA 2 PLACE INTERCOM FOR ICOM A25

The PA-200T/A25 is a 2 Place Mono Intercom designed to be used with your ICOM handheld transceiver. This unit will plug directly into ICOM A25 Transceivers. This intercom is fitted with an AUX jack that can be used for cell/satellite phone calls or inputting music. • Portable & Compact • AUX Input for Cell/Satellite Phones or Music • Pilot / Co-Pilot Volume Control • Voice Activated (VOX) • Adjustable Squelch Circuit • Fail Safe Mode • Easy Battery Access • Powered by 9V Battery • 25-30 Hours Battery Life • Includes a PTT (Push to Talk) Switch **Specifications:** Dimensions: 2.25'' x 2.75'' x 1.25''

P/N 11-18464 ..... ---

FLIGHTTECH ITC-2003-ENRI REMOTE PANEL MOUNT INTERCOM

The ITC-2003-ENRI features ENRI technology, a unique design, a small panel control unit and a remote intercom unit. The small control panel consisting of a Volume control and a Pilot/All switch measures only 1"w x 1.3"d x 1"h. The second part, the intercom unit is only 4.6"x 3.1"x 1.7" and included mounting tabs. Because of D.C. switching and control between the panel control and the intercom, the mounting location is not critical. Simply mount the intercom unit in an easy to reach location, run cables to the headphone jacks, power and a small six conductor cable to the panel control unit. The Electronic Noise Reduction feature is exclusive to FlightTech Intercoms and allows for quiet communications without the background noise common to Voice Operated Squelch controlled intercom. With ENRI, the microphones are active at all times, ENRI monitors the background noise and eliminates it allowing only the headset user's voice to pass. Power: 12V or 24V

P/N 11-00172 ..... ---
With preassembled 2-place cable.....P/N 11-00822 ..... ---

SOFTCOMM PORTABLE INTERCOMS

These top quality, economical intercom systems are perfect for any type aircraft and are compatible with any standard headset. Features include automatic on/off power, panel controls for volume and gain and a pilot isolate switch (ATC-4 only). The intercoms are 9V DC portable or panel mountable with pilot and copilot transmit as a standard feature. These intercoms can be used with other equipment to record instructions or play cassette music. The new model of the ATC-2 has reduced size and weight, and a front-panel mounted PTT switch. 4-Place Portable (stereo)

ATC-4S.....P/N 11-05905 ..... ---

FLIGHTTECH ITC-401-ENRI PORTABLE INTERCOM

The ITC-401-ENRI 2-place intercom features the Enhanced Noise Reduction Intercoms circuit in a basic, small package. With ENRI, the problems common with voice activated intercoms are eliminated. There are no squelch controls to adjust, no automatic squelch circuits that keep changing levels, only one single volume control. ENRI continuously monitors background noise picked up by the headset microphone and eliminates it, even while talking. Excellent for open cockpit aircraft. 9V Battery Operation • Pilot/All Switch • Available with cable and standard plugs or ICOM A-22, A3 and A4 Cable & Plug • 3 year warranty • 4"L x 2.5"W x 1.5"D.....P/N 11-00544 ..... ---

ITC-401-23 - Plugs directly into Icom A5 & 23 with out the need for additional cables .....P/N 11-01005 ..... ---

ITC-401/1-ENRI - Plugs into Icom A22, A3, A4 with out need for additional cables .....P/N 11-00825 .....

ITC-402P/404S-P PANEL MOUNT INTERCOMS WITH ENRI

The ITC-404SP offers the same Enhanced Noise Reduction technology, small size and up to four stations, pilot, copilot and two passengers. On cross country flights, enjoy CD or Tape music in full stereo. So that nothing is missed, the music mutes during intercom communications or ATC radio communication. The small size of 2.1" w x 1.1"h x 3.1" makes the ITC-404SP the smallest four place stereo panel mount intercom available.The Built-In Cellular Phone interface enables the pilot to connect a cell phone directly to the intercom, eliminating the need for an external adapter. Simply plug one end of a cable into the cell phone earphone jack and the other end into the intercom cell phone jack. The pilots audio to the cell phone is the ENRI processed audio, eliminating any background noise that might other wise be heard while talking. 4-place stereo intercom panel mount.

Note: Will not work w/ the unamplified dynamic mic.

P/N 11-01354 ..... ---

FLIGHTTECH ITC-401TC INTERCOM

ITC-401TC is different from the rest of the ITC-401 series in that the "Noise Reduction" control is located on the front of the intercom, rather then an internal "Set and Forget" adjustment The ITC-401TC is available in versions with cables and plugs for panel mount jacks as well as handheld radios and they include the following: ITC-401TC, Standard cable and plugs for panel jacks.....P/N 11-03201 ..... ---

ITC-401TC-1, Cable and plugs for the ICOM, A22, A3, A24, & A

P/N 11-03202 ..... ---

ITC-401TC-23, Cable & plug for the ICOM A23 & A5

P/N 11-03203 ..... ---

FLIGHTTECH ITC-2001-ENRI 2PLACE PORTABLE STEREO INTERCOM

11-17668

Ideal for the renter pilot or as a permanent intercom without the installations concerns associated with a panel mount intercom. Features: Exclusive Electronic Noise Reduction circuits. Up to 110db of Noise Reduction. Continues Audio, No missed Syllables or Words. Built-in Cellular Phone Interface, includes patch cable. Pilot/All Switch. Specifications: 9 Volt Battery or External DC Operation, Cigarette Lighter Adaptor included. Auxiliary Stereo Audio Input with Radio Mute and Intercom Audio Mute. Light weight, 10 oz. Push-to-Talk Button for Keying the Comm Radio. Pilot and CoPilot Radio PTT Jacks. Small Size: 5.5" x 1.5" x 3.2" Three Year Warranty.

Model	Description	Part No.	Price
Electronic Noise Reduction Intercoms			
ITC-2001-ENRI	2-place portable intercom w/ENRI	11-17668	---
ITC-402P-ENRI	Full feature panel mount intercom designed for the pilot with a two place aircraft.	11-00926	---
ITC-404SP-ENRI	4-place stereo intercom panel mount	11-01354	---
ITC-2001-I	2 Place Intercom for use with (ICOM A22, A24 AND A6 Radios)	11-07010	---
Model	**Description**	**Part No.**	**Price**
Pre-Assembled Cables			
ITC-404S-P	2-place Cable	11-01377	---
ITC-404S-P	4-place Cable	11-01378	---
ITC-2003	2-place Cable	11-01379	---
ITC-2003	4-place Cable	11-01380	---

AV

BOSE® A30® HEADSET / PROFLIGHT HEADSET

BOSE A30® ANR AVIATION HEADSETS

- Ideal noise environment
- Designed for nearly every cockpit environment.
- 14.2 ounces (404 grams) on-head weight
- Our lightest and most comfortable around-ear aviation headset with 20% less clamping force than the Bose A20.
- Three user-selectable modes of noise cancellation
- Toolless, side swappable down cable and mic
- FAA TSO and E/TSO-C139a certification
- Bluetooth connectivity and audio prioritization

The Bose A30 Aviation Headset is best utilized where noise is pervasive, comfort is required and communication is critical. It's the most comfortable, full-featured around-ear aviation headset Bose has ever created, and it's the first-ever around-ear aviation headset with three modes of user selectable active noise cancellation. Each feature of the A30 was inspired by decades of Bose research and development and engineered to perform in high-intensity flight environments. Plus, its lightweight, comfortable design is FAA TSO and EASA E/TSO-C139a certified, proving its durability in tough conditions.

Features: • **Lightweight design with low clamping force for unparalleled comfort**. A full-sized around-ear headset with 20% less clamping force than the A20. • **Unmatched audio clarity with active equalization.** Incoming signals are shaped and equalized for enhanced clarity and intelligibility. • **Industry-leading active noise reduction with three user selectable modes.** Adjustable noise cancellation modes to accommodate different use cases or personal preference. • **Precision-focused noise cancelling microphone.** The noise cancelling microphone is engineered for aircraft with "hot mic" or PTT systems to increase clarity and reduce background noise during transmission. Mic winglets also allow for precise mic and boom adjustments. • **Robust, durable design that is FAA TSO and EASA E/TSO-C139a certified.** The headset is FAA/EASA TSO certified and has passed 145 separate tests by the Bose engineering and quality assurance team to ensure endurance in challenging operating environments. • **Removable/Side swappable down cable and mic, no tools required.** Boom mic and cable can be mounted on either side of the headset without using any tools. • **Bluetooth® audio (for select models).** Connect wirelessly to mobile devices, audio systems and electronic flight bags. Audio prioritization allows users to mix Bluetooth® audio with intercom audio or have intercom transmissions mute Bluetooth® temporarily. A non-Bluetooth® headset variant is also available. • **Shielded, durable and flexible cable.** Cable is resistant to radiated emissions with a thin design that allows for increased freedom of movement and easy storage. • **Digital active noise cancellation.** Significantly reduces ambient noise, allowing users to lower radio volume to a more comfortable listening level. • **Long term durability.** Built and tested for extended use in demanding environments, having passed 145 separate tests by the Bose research and development team to ensure headset endurance. • **Tap control for talk-through communication.** Double-tap either earcup to engage low mode and optimize audio for interpersonal communications outside of the intercom. • **Multiple plug types.** Available in dual plug, LEMO (6 pin), XLR (5 pin) and U174 variants, with U384 and other connectors becoming available in the upcoming year for GA, commercial and military customers. • **Automatic shutoff.** Powers down automatically when not in use. An auto-on feature is also available on select panel-powered configurations. • **Exceptional battery life.** Two AA batteries power 25-plus hours of Bluetooth® use and 45-plus hours without. Aircraft-powered variants are also available. • **Bypass communications mode.** Primary intercom audio is available with or without power. • **Five-year limited warranty with acclaimed service.** Worldwide coverage (excludes wear items like ear cushions, mic covers and headbands). • **Carrying case.** Includes a strap and an internal zippered storage compartment and enhanced padding for safe and secure storage. • **In The Box**: • A30 Aviation Headset • Carry Case • 3.5 mm AUX audio cable • 2 AA batteries • Control module hanger

Headset Only.....P/N 11-19484 ..... ---

BOSE® A30® WITH BLUETOOTH

Description	Part Number	Price
Dual GA Plugs	11-19489	---
Lemo 6-Pin Plug	11-19491	---
Helicopter Plug	11-19490	---
5 Pin XLR Plug	11-19492	---

BOSE® A30® WITHOUT BLUETOOTH

Description	Part Number	Price
Dual GA Plugs	11-19485	---
Lemo 6-Pin Plug	11-19487	---
Helicopter Plug	11-19486	---
5 Pin XLR Plug	11-19488	---

BOSE® A30® ACCESSORIES

Cable Assembly Dual GA w/o Bluetooth	11-19493	---
Cable Assembly U174 Plug w/o Bluetooth	11-19494	---
Cable Assembly Lemo 6 Pin Plug w/o Bluetooth	11-19495	---
Cable Assembly XLR5 w/o Bluetooth	11-19496	---
Cable Assembly Dual GA 150-Ohm w/o Bluetooth	11-19497	---
Cable Assembly U-174 Plug 150-Ohm w/o Bluetooth	11-19498	---
Cable Assembly Dual GA w/ Bluetooth	11-19499	---
Cable Assembly U174 Plug w/ Bluetooth	11-19500	---
Cable Assembly Lemo 6 Pin Plug w/ Bluetooth	11-19501	---
Cable Assembly 5PXLR w/ Bluetooth	11-19505	---
Cable Assembly U-174 Plug 150-Ohm w/ Bluetooth	11-19506	---
Cable Assembly Lemo 6 Pin Modified w/ 6 Cable w/ Bluetooth	11-19507	---
Headband Cushion Kit	11-19508	---
Service Accessory Kit	11-19509	---
Carry Case	11-19510	---
Termination Block Kit	11-19511	---
Control Module Lanyard	11-19512	---

BOSE® A30® & A20® ACCESSORIES

Description	Part No.	Price
6-pin to Twin Plug Adapter	11-08741	---
Aircraft power Installation Kit	11-01846	---
Ear Cushion Kit	11-08743	---
Boom Microphone Windscreen (Electret)	11-04846	---
Boom Microphone Windscreen (Dynamic)	11-08747	---
Auxiliary Input Cable Adapter	11-08751	---

BOSE® A20® ACCESSORIES

Description	Part No.	Price
Headband Cushion Kit	11-08744	---
Service Accessory Kit (ear cushions, headband cushion, mic windscreen)	11-08748	---
Carry Case	11-08749	---
Earcup Down-cable Cover	11-08753	---
Bose X Service Accessory Kit	11-13760	---

AV

PROFLIGHT SERIES 2 AVIATION HEADSET

The ProFlight Series 2 builds upon the advanced technology of the original and is the most lightweight, compact and comfortable aviation headset Bose has ever produced. ProFlight Series 2 is engineered and refined for the way professional pilots fly and now offers numerous updates and enhancements based on pilot input. ProFlight Series 2 features a new lighter, thinner more flexible cable providing increased freedom of movement and improved tap control for talk-through communication. Like the original, the ProFlight Series 2 is FAA TSO and E/TSO-C139a certified.

Description	Part No.	Price
Dual GA Plug with Bluetooth	11-17410	---
6 Pin with Bluetooth	11-17411	---
5 Pin XLR with Bluetooth	11-17412	---
Dual GA Plug without Bluetooth	11-17408	---
5 Pin XLR without Bluetooth	11-17409	---

BOSE® PROFLIGHT HEADSET ACCESSORIES

Description	Part No.	Price
Stay Hear Tip Kit Small 2 Pair	11-16379	---
Stay Hear Tip Kit Medium 2 Pair	11-16380	---
Stay Hear Tip Kit Large 2 Pair	11-16381	---
Side Pad Pack	11-16382	---
Windscreen	11-16383	---
Carry Case	11-16384	---
Headband Cushion	11-16385	---
Termination Cap	11-16386	---
Accessory Pack	11-16387	---
Lanyard Control Module	11-16388	---

CLOUD9 HEADSET CONTROLLER HOLDER – BOSE X

In The Box: • Headset Controller Dock for Bose X (A10) 3D printed in Black Polycarbonate. • 2ea suction cups with threaded stud for use when in suction cup mounting configuration. • 1ea clamping plate with threaded inserts for use when hard mounting to instrument panel or soft interior panels. 3D printed in Black Polycarbonate. P/N 13-25582.....---

LIGHTSPEED ANR HEADSETS

EVERY LIGHTSPEED HEADSET COMES WITH A LONG LIST OF INNOVATIONS:

Finely tuned ANR — Streaming Quiet™ ANR has firmly established Lightspeed as the leader in noise reduction technology, but every Lightspeed headset incorporates finely tuned ANR for exceptional quieting. **Full Bluetooth® integration** — Every Lightspeed headset delivers excellent wireless call clarity, music fidelity, and access to critical audio alerts from aviation apps on mobile devices. **Engineered for comfort** — All Lightspeed headsets feature comfort-designed headbands and plush ear seals with larger openings, 20% more surface area, and up to 50% more space inside the ear cup than our closest competitor. The result is superior distribution of weight and side pressure for maximum comfort. **FlightLink compatibility** — Lightspeed's free, proprietary app turns your iPad® or iPhone® into an in-cockpit recorder, seamlessly capturing incoming and outgoing communications for instant playback or later retrieval. **ComPriority™** — Never miss important radio communications with patented ComPriority, which lowers the volume of any auxiliary device automatically during radio or intercom transmissions. **Auto Shutoff™** — Saves battery life by automatically shutting down the headset power when not in use. **5-Year Lightspeed warranty.**

LIGHTSPEED DELTA ZULU ANR HEADSET WITH BLUETOOTH

Delta Zulu is built for your mission with safety, control, and comfort in mind. The newest headset from Lightspeed includes their best ANR to date, with the superior comfort and durability you expect from a Zulu, while also introducing groundbreaking new technologies that could save the lives of both pilots and passengers.

Safety - Lightspeed's designers and engineers collaborated with a team of highly qualified flight and safety experts to develop a revolutionary digital platform and groundbreaking new technologies to make flying safer. Kanari™ smart alert technology built right into the headset provides protection by measuring cabin carbon monoxide levels, helping to keep you and your passengers alert and safe with audible warnings. The free Lightspeed App allows you to also check the CO sensor data visually during flight and review your full history later. The Delta Zulu also introduces a built-in audio equalization system called HearingEQity™ that ensures crystal clear flight communication. Through an automated 12-frequency hearing test that can be taken through the Lightspeed App, HearingEQity sets the hearing level in each ear of your headset to create your individual hearing profile to compensate for any hearing variations between ears.

Control - The Lightspeed App also allows you to record radio conversations, playback transmissions, draw diagrams, and archive flight recordings for post-flight briefing and training. Delta Zulu is also the first headset to adopt the UAC plug, allowing you to connect to other devices directly from the headset for charging, data communications, and auxiliary audio.

Comfort - The legendary Zulu comfort and durability continues in the Delta Zulu. Performance ear seals, sturdy cables built around a Kevlar core, full Bluetooth integration, and an industry-best 7-year warranty are still standard in the newest Lightspeed model.

Dual GA.....P/N 11-19331 ..... ---
6-Pin Lemo.....P/N 11-19332 ..... ---
Heli U-174.....P/N 11-19333 ..... ---

LIGHTSPEED ZULU 3

The most comfortable, most durable headset Lightspeed has ever made.

More comfortable - Performance ear seals are tapered to provide a more natural fit, for greater comfort and stability. Plush ear seals provide 20% more surface area than competitors, for a better seal around glasses frames and a more comfortable distribution of side pressure. Larger cup cavity provides 50% more space for your ears, allowing the entire ear to fit comfortably inside

More durable - Rugged cables built around a Kevlar core deliver more strength and flexibility. Nearly 100% of the headset is made from stainless steel and magnesium. Magnesium ear cups are both strong and light.

More clarity - The Dual Aperture Disc™ microphone provides greater noise cancellation. Exclusive, user-adjustable mic gain helps balance loud and soft voices in a multi-headset environment. Front Row Center™ (FRC), stereo cross-feed technology, and redesigned speakers deliver crisp, rich audio and unparalleled music delity .

Bluetooth Dual GA Plugs .....P/N 11-14868 ..... ---
Bluetooth Lemo Plugs .....P/N 11-14870 ..... ---
Bluetooth U-174 Heli Plugs .....P/N 11-14871 ..... ---

CLOUD9 HEADSET CONTROLLER HOLDER – LIGHTSPEED DELTA ZULU

In The Box: • Headset Controller Dock for Litespeed Zulu & Sierra Series 3D printed in Black Polycarbonate. • 2ea suction cups with threaded stud for use when in suction cup mounting configuration. • 1ea clamping plate with threaded inserts for use when hard mounting to instrument panel or soft interior panels. 3D printed in Black Polycarbonate. P/N 13-25581..... ---

LIGHTSPEED SIERRA®

Step up to the world of premium ANR headsets with the value-priced Sierra. Picked as the "hands-down favorite" in Aviation Consumer's real-world test of budget ANR headsets, Sierra delivers the comfort, quiet, and advanced features you've come to expect from Lightspeed. A reversible headband allows microphone placement on the right or left side.

Features:

• Quiet — Active noise cancellation over a broad range of low frequency noise bring state of the art technology to Sierra.
• .....Comfort and Durability — At 16 ounces, Sierra is head-friendly and features plush ear seals that each provides nearly 10 square inches of surface area for a better seal and greater distribution of side pressure.
- ComPriority — Never miss important radio communications with patented ComPriority, which lowers the volume of any auxiliary device automatically during radio or intercom transmissions.
- Reversible microphone — A unique design allows microphone placement on the left or the right.
- Cellphone/Music Connection — In addition to full Bluetooth connectivity, Sierra offers an integrated control box auxiliary input for connecting a mobile phone, music player or other audio device.
- 5-year warranty
- Made in USA

Specifications: • Auto Shut-Off • Battery status indicator • (2) AA Batteries - 40 hours of operation • Stereo/Mono switchable • Left and right ear volume controls • Weight - 16 oz

In The Box: • Headset • Carrying case • Music patch cord • Cord clip • Two AA batteries • Foam windscreen

Sierra Headset.....P/N 11-08588 ..... ---

COMPLETE FLIGHT HELMET LIGHTSPEED ZULU 3

This Helmet Package comes fully assembled with a Lightspeed Zulu 3 with Bluetooth. Simply plug in, strap in, and fly. Item carries a 3-year limited warranty from Lightspeed on headset.

Helmet is one size fits all. Boa® Fit System integrated directly into helmet liner for optimized stability and fit includes expanded Polystyrene Impact Liner featuring Zorbium® Foam Comfort Pads in two thicknesses. The EXFIL® SAR is the first purpose built Search and Rescue helmet to provide accessory mounting capabilities, while meeting key industrial and mountaineering performance standards. The EXFIL® SAR Backcountry features a glass reinforced polycarbonate shroud that is designed to handle lights and cameras. The helmet also includes a sport style under the chin retention system with a Fidlock® magnetic buckle for easy one-handed operation. It also comes standard with two vent covers for use during inclement weather.

Dual GA.....P/N 11-20337 ..... ---
LEMO .....P/N 11-20338 ..... ---
U174.....P/N 11-20339 ..... ---

LIGHTSPEED HEADSET ACCESSORIES

Description	Part No.	Price
Lightspeed Zulu Headset Refresher Kit	11-18463	---
Zulu Head Pad	11-08723	---
Sierra / Tango Replacement Head Pad	11-10662	---
Zulu / Sierra / Tango Ear Seals	11-08043	---
Zulu, Sierra, Tango, 3G, QFRc, XLC Wind Screen	11-08575	---
Zulu Shirt Clip	11-10661	---
Cell Patch Cord	11-01990	---
Lightspeed Kevlar 6-Pin Lemo To Dual Ga Headset Adapter A224	11-19465	---

AIRCRAFT SPRUCE - LIGHTSPEED AVIATION TRADE UP PROGRAM
SEE OUR WEBSITE FOR DETAILS

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

SIGTRONICS HEADSETS

AIRCRAFT SPRUCE SKYCOM & SKYPRO HEADSETS

SKYCOM H-40A AVIATION HEADSET

Features Foam Ear Seals and Air-Foam Headpad for exceptional comfort and fit. The Skycom H-40A Headset provides 24 dB Passive Attenuation. It Features a high quality Noise Cancelling Electret Microphone specially designed to match the frequency of the human voice to provide sound clarity, best intelligibility, and background noise reduction. The Unique ball-joint articulating boom rotates laterally for precise lip-angle alignment, and swivels for placement on either side of the mouth. Independent built-in volume control permits pilot and co-pilot to separate sound levels. The Cables are shielded and the speakers are wired in parallel for greatest reliability. Fully adjustable headband fits all sizes. Navy Blue Earcups are fabricated from high impact ABS plastic .....P/N 11-09099 ..... ---

SKYCOM H-80A AVIATION HEADSET

The Skycom H-80A is the top-of-the-line Passive headset manufactured for Aircraft Spruce. It incorporates all of the quality features of the economy SkyCom H-40A above, plus many more. The Skycom H-80A Headset features Leatherette Ear Seals and Super Cushion Headpad for exceptional comfort and fit. The Skycom H-80A Headset provides 24 dB Passive Attenuation. It Features a high quality Noise Cancelling Electret Microphone. It has Dual volume controls and a Mono/Stereo Selector Switch. All this in a premium, lightweight headset with attractive dark navy blue ear cups.

P/N 11-09098 ..... ---

SKYCOM ANR HEADSET

Available exclusively from Aircraft Spruce, The Skycom ANR Headset features Soft Leatherette/ Memory Foam Ear Seals for exceptional comfort and fit. Ultra-soft Pillow-Top Headpad remains comfortable during long flights. The Skycom ANR provides 24 dB Passive Attenuation, and 16-19 dB Active Attenuation. It Features a high quality Noise Cancelling Electret Microphone for crisp communications, full flex boom. The required battery for this headset is 9 volt. NOW UPDATED with Auto Shut-Off circuitry and Cell Phone/Music Input. Includes carrying case. This Skycom headset delivers excellent ANR performance at an economical price! .....P/N 11-02214 ..... ---

REPLACEMENT EAR SEALS

These seals fit SKYCOM H-40A, SKYCOM ANR, and SKYPRO H-80A headsets.

Replacement Gel Ear Seals.....P/N 11-04680 ..... ---/pr.

SIGTRONICS S-AR HEADSET

The S-AR headset protects your hearing switched on or off. With S-AR switched on you hear a major reduction in low frequency noise. Radio transmissions that are weak and garbled on passive headsets will sound strong and clear with an S-AR headset. Features up to 19 db of active noise reduction, air foam head pad cushion that virtually eliminates "Hot Spots", ultra-deep gel ear seals for comfort and ease of use and custom flex boom for perfect mic placement. Sigtronics exclusive "Stop-Break" high flex cord and RFI and EMI free electronics make the S-AR ideal for pilots who want a high performance mono/stereo headset. A battery power module (9V) with belt clip and custom headset bag are included with all S-AR headsets. .....P/N 11-00859 ..... ---

SIGTRONICS HEADSET TESTER HT-1

Sigtronics Headset Tester will accommodate two headsets and include a built-in Push-To-Test switch. With this unit you may test one headset alone or two headsets together. Simply plug one or two headsets into the tester. Then place the headset one your head and press the Push-To Test switch.

P/N 11-17126 ..... ---

SIGTRONICS HIGH PERFORMANCE HEADSETS

All Sigtronics headsets and intercoms are specifically designed for high-noise environments and are RFI and EMI immune, giving you clear, interference-free transmission even in fabric or composite aircraft or in use with handheld radios.

SERIES 8 HEADSETS

"8 Series" superlight headsets are full-size quality headsets available at just 11.9 oz., delivering comfort, and performance. A new lightweight, custom flex boom stays where you put it, even in the roughest conditions.

S-58 features new, durable, non-glare "powder-coated" black hardware and Sigtronics "sky-blue" earcups. The new ergonomic headpad and custom fit gel seals deliver comfort and eliminate "hot-spots". A new microphone configuration cancels unwanted noise before it can get into the system. Sigtronics' 5-year warranty, custom padded bag, easy-grab volume controls, ultra foam windscreen & exclusive clothing clip are included. Wt. 11.9 oz. Flex boom.

Mono.....P/N 11-19105 ..... ---
Stereo.....P/N 11-02803 ..... ---
Helicopter .....P/N 11-02813 ..... ---

S-68 headsets include all of the S-58 features plus high-performance black earcups and 14K Gold Plated hardware.

P/N 11-19125 ..... ---
Stereo.....P/N 11-02805 ..... ---
Helicopter .....P/N 11-02815 ..... ---

S-45 series headsets are the same as the S-40 headset, except they have airflow headpads and gel earseals for maximum comfort.

P/N 11-02797 ..... ---
Helicopter.....P/N 11-02810 ..... ---
Stereo .....P/N 11-02811 ..... ---

S-20 incorporates the M-80 microphone, designed specifically for use in high noise environments with its excellent noise canceling properties. The microphone gain is set to operate over a wider range of aircraft radios, even handheld - the ultimate test.

S-20 Headset ..... P/N 11-02799.....---

SIGTRONICS S-8 HEADSET

Eliminate scratching the top of your canopy by using the Sigtronics S-8 headset. features a behind the head headband with quick adjust hook-n-loop strap that fits the shape of your head, a flex boom and gel ear seals. The S-8 has a passive noise reduction rating of 24 dB.

5 Year warranty.....P/N 11-00645 ..... ---

SIGTRONICS HEADSET ACCESSORIES

Electret Mic Muff .....P/N 900084 ..... ---
Foam Ear Seals.....P/N 100369 ..... ---
Oval Gel Ear Seeals .....P/N 11-15888 ..... ---
Shirt Clip .....P/N 11-04368 ..... ---
S-AR Ear Seals Gel / Foam Filled .....P/N 11-12533 ..... ---
Windscreen MIC 8 Series .....P/N 11-12534 ..... ---

SIGTRONICS HEADSET/INTERCOM COMBOS

SIGTRONICS 2-PLACE COMBOS - Includes 2 Sigtronics S-58 headsets, 1 SPO-22 (2)place intercom, push-to-talk switch, & comfort covers for headsets.

Combo #1A w/S-58 Headsets.....P/N 11-00037 ..... ---

SIGTRONICS 4-PLACE COMBOS - Includes two Sigtronics S-58 headsets, SPO-42 (4)place intercom, push-to-talk switch, & comfort covers for headsets.

Combo #2A w/S-58 Headsets.....P/N 11-00038 ..... ---

SIGTRONICS PANEL MOUNT COMBOS - Same as Combo #2 except substitute SPA-400 panel mount intercom for SPO-42 portable intercom.

Combo #3A w/S-58 Headsets.....P/N 11-00039 ..... ---

CALL FOR SPECIAL PRICES!

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DAVID CLARK HEADSETS

DAVID CLARK DC ONE-X HEADSET

The DC ONE-X headset features the perfect combination of comfort, technology and durability. From the moment you put it on, you'll notice the difference. The feel of plush, leatherette ear seals that enclose your ears in comfort. The soft, Outlast® fabric, vented head pad that actually absorbs heat buildup to keep you cool during long flights. The advanced, Hybrid Electronic Noise Cancellation technology that delivers extraordinary ANR performance. The rugged, yet lightweight alloy suspension system with adjustable headband and swivel hinge stirrups to ensure a personalized fit.

OneX Dual Plug Battery Powered.....P/N 11-14296 ..... ---
OneX 6 Pin Plug Aircraft Powered.....P/N 11-14297 ..... ---
OneXH for Helicopters .....P/N 11-14901 ..... ---
Leatherette Ear Seals.....P/N 11-15265 ..... ---

DAVID CLARK DC JET PASSIVE HEADSET

DC JET passive noise-attenuating, rest-on-ear style headsets are the ultra-lightweight (just 4.5 ounces). Available with standard dual plug and 5-Pin XLR connectors. Advanced comfort and performance features include an Outlast® technology, heat-absorbing head pad to keep you cooler on the flight deck and plush, leatherette ear seals with memory foam that rest gently but securely on the ears for personalized comfort.

Dual Plug Passive.....P/N 11-20767 ..... ---
5-Pin XLR Passive.....P/N 11-20768 ..... ---

DAVID CLARK DC JET-X ENC ANR HEADSET

The DC JET-X from David Clark Company is purpose-built for commercial pilots. Its sleek, rest-on-ear design, weighs just 4.5 ounces. Excellent ANR performance and advanced comfort features such as its Outlast® fabric, heat-absorbing head pad and plush, leatherette ear seals that reduce heat build up and keep pilots cool and comfortable in flight. Backed by a 3-year warranty and extraordinary customer service and support.

Dual Plug ENC .....P/N 11-20769 ..... ---
5-Pin XLR ENC.....P/N 11-20770 ..... ---

DAVID CLARK DC PRO 2 U-174/ U PLUG SINGLE EAR PASSIVE

David Clark Dc Pro 2 U-174/U Plug Single Ear Passive. **Features**: • Rugged, yet lightweight, supra-aural, rest-on-ear design • Volume control permits adjustment of listening level in ear • M-2 dynamic microphone for enhanced noise cancelling • Features U-174/U plug compatible with military aircraft low impedance Intercom Communication Systems. P/N 11-19355 ..... ---

DAVID CLARK DC PRO-X2 HEADSETS

The DC PRO-X2 Series is a next generation version of the popular DC PRO-X Series headset line introduced by David Clark Company in 2012. The DC PRO-X2 Series is ideal for both general aviation (private) and commercial aviation (airline, corporate and transport) pilots that prefer the superior comfort, dramatically reduced clamping pressure and lightweight design (under 8 ounces) of a 'rest-on-ear' style headset. DC PRO-X2 Series headsets also retain all of the features of the original DC PRO-X Series.

Model	Description	Part No.	Price
43105G-01	ENG Headset-Mic., Dual Plug, BT	11-17247	---
43105G-04	ENG Headset-Mic., 5-PinXLR, BT	11-17249	---
43105G-07	ENG Headset-Mic., 5-PinXLR	11-17250	---
43105G-01	ENG Headset-Mic., Dual Plug	11-17251	---

DAVID CLARK DC PRO-2 HEADSET DUAL GA PLUGS PASSIVE

Next generation DC PRO-2 passive noise-attenuating headset-microphone dual plug combine outstanding comfort, performance and durability in a lightweight, rest-on-ear design. These headsets are ideal for commercial pilots that fly low-noise aircraft where Electronic Noise Cancelling ANR technology is not required. DC PRO-2 headsets provide enhanced audio quality and clear, crisp voice transmission utilizing advanced, noise-cancelling electret microphones.

Dual GA Plugs ..... P/N 11-17400 ..... ---
5 PIN XLR Dual Plugs ..... P/N 11-17401 ..... ---
GA Dual Plug Single Ear..... P/N 11-17402 ..... ---
Military U-174 Plug ..... P/N 11-19353 ..... ---
6-Pin Panel Mount/Bluetooth..... P/N 11-19354 ..... ---

DAVID CLARK H10-76 LOW IMPEDANCE HEADSET

Undercut Comfort-Gel Ear Seal for Improved Comfort. Low Impedance. Most popular noise attenuating headset ever produced for use with military radios. Standard headset of the U.S. Air Force, NATO and most airborne command centers. AWAC's, under command of NATO and the United States, use the H10-76 both in the cockpit and the communication operations. Headset of choice of M.A.T.S. pilots. Also used in ground support operations. Coiled cord terminates into a U-174/U plug. .....P/N 11-02226 ..... ---

DAVID CLARK 10S/DC HEADSET - LISTEN ONLY

The only consumer stereo headset having an independently certified Noise Reduction Rating (NRR). Stunning stereo output. Newest Undercut, Comfort Gel Ear Seals Super-Soft, Double-Foam Headpad. Dual volume controls. Lightweight, 6 ft. extended coil cord. Terminated with commonly-used 3.5mm stereo plug. Both 1/4-inch plug adapters (mono & stereo) included. Earphone elements are hi-fidelity, dynamic with a range of 10-20,000 Hz. NRR 23dB ..... P/N 11-02238 ..... ---

DAVID CLARK H10-13.4 HEADSET DUAL GA PLUGS

The H10-13.4 headset provides David Clark quality without the hot spots, clamping, or weight discomfort. It features a certified noise reduction rating of 23 dB and weighs only 16.5 oz. It features M-7A noise cancelling electret mic, and low profile volume controls with detent settings.

P/N 11-03815 ..... ---

DAVID CLARK H10-13X ANR HEADSETS

The H10-13X aviation headset has the most advanced Electronic Noise Canceling (ENC) technology assuring an amazingly quiet flight. Available in the most popular and comfortable headset style. H10-13X **Features**: Quiet Performance — You'll hear and feel the difference immediately. When ENC is turned ON, noise cancellation actually improves by an additional 12-17 dB. That's better total protection than any other headset available today. 5 year warranty. Outstanding Comfort - Lightweight at just 17oz. w/advanced comfort features. Super soft gel ear seals with new exclusive Velvet Fleece surface, combined with reduced headband pressure and a soft foam-filled pillow headpad create a comfort level never before experienced.

Model	Description	Part No.	Price
H10-13X	Fixed wing headset (ENC) with straight, 5ft. cord to Battery Power Module to straight 5ft. cord with A/C Panel-Intercom Plugs (hardwired)	11-03819	---
H10-13XL	Fixed wing Headset (ENC) with straight, 5ft. cord, Snap Lock-Quick Release Connector/Battery Power Module with mating Headset and Cord Assy Connectors/Coil Cord Assembly with mating battery connector and Panel-Intercom Plugs	11-03820	---
H10-13XP	Fixed wing Headset (ENC) with straight, 5ft. cord, Snap lock-Quick Release Connector and Panel Mount Module with mating Headset Connector, on/off Toggle Switch	11-03821	---
H10-13HXL	Helicopter Headset (ENC) with coiled, 5ft. (extended) cord, Snap Lock-Quick Release Connector/Battery Power Module with mating Headset and Cord Assy Connectors/Coil Cord Assembly with mating battery connector and Panel-Intercom Plug	11-03817	---
H10-13HXP	Helicopter Headset (ENC) with coiled, 5ft. (extended) cord, Snap Lock-Quick Release Connector and Panel Mount Module with mating Headset Connector, on/off Toggle Switch.	11-03818	---

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Please view our website for current prices.

DAVID CLARK HEADSETS

DAVID CLARK HEADSET H10-66LX & H10-76XL

Pilots have trusted the green domes of David Clark Company headsets for over 25 years. Their high-performance products are now equipped with several new features to enhance pilot comfort: super-soft, double-foam headpads, comfort-gel, 'undercut' ear seals, and a smaller, lighter battery pack with auto shutoff for ENC models. Find out for yourself why quality conscious pilots will accept nothing less than the #1 Headset in Aviation.

Description	Part No.	Price
H10-66XL DUAL IMPEDANCE ENC HEADSET Designed for use with both high and low impedance systems. Select switch on dome matches headset to system impedance. Ideal for fleet operations. Certified Noise Reduction Rating (NRR): 27: dB. Built in ENC technology and enhanced comfort features.	11-05427	---
H10-76XL PORTABLE LOW IMPEDANCE ENC HEADSET Feature ENC technology and designed for use with low impedance systems. Coil cord with single plug connects the battery-powered module to aircraft radio or intercom. Additional 17-22 dB noise attenuation with ENC activated.	11-05428	---

DAVID CLARK H10-76 HEADSET

Undercut Comfort-Gel Ear Seal for Improved Comfort. Low Impedance. Most popular noise attenuating headset ever produced for use with military radios. Standard headset of the U.S. Air Force, NATO and most airborne command centers.Coiled cord terminates into a U-174/U plug.

P/N 11-02226 ..... ---

DAVID CLARK H10-56HXL HELICOPTER HEADSETS

New Comfort gel, undercut ear seals. Battery Power Module - One 9 volt battery for up to 25 hours of operation. Pilot Selectable Automatic-Shut Off Feature. Five foot (extended) coil cord terminating with a 10 pin quick release connector.

Description	Part No.	Price
Model H10-56HXL	11-03828	---
Model H10-56	11-03827	---

DAVID CLARK XL XP TO BOSE PANEL ADAPTER

Allows David Clark ENC headsets (XL or XP models) to be used, battery free, in an aircraft using a six connector female socket (Bose Panel socket) .....P/N 11-08811 ..... ---

DAVID CLARK HEADSET BAG

This ballistic Nylon Carry Bag is black on black, with the DC logo subtly embroidered in the lower right corner. This bag has been carefully chosen for its simplicity, quality and workmanship and is a fitting complement to any David Clark Headset.

P/N 11-00642 ..... ---

DAVID CLARK GROUND SUPPORT HEADSETS

Ground Support Headsets are designed to facilitate communication when background noise or distance makes it extremely difficult to communicate. During ground-support operations, communication is critical to ensure the safety of everyone in the vicinity as well as the protection of the aircraft from accidental damage.

MODEL H7010

Noise Attenuating Headset • M-101 Noise-Cancelling Microphone • 30-inch straight cord with U174/U plug • Noise-shielded microphone (muff) with On/Off switch • Soft headpad and ear seals guarantee exceptional comfort • Snap-fastened nylon straps secure microphone muff to mouth • Corrosion-resistant, chrome plated headpad/stirrup assembly • Extremely durable and reliable • NRR 26dB .....P/N 11-07116 .....

9V BATTERY PACK FOR ENR HEADSETS

The XL-9V 9 volt battery pack from David Clark is easier to operate, wear and store. It is 50% smaller and 50% lighter than previous battery packs.
The model XL-9V battery pack uses a 9 volt alkaline battery (40862G-01) to provide power to the headset ENC system. The XL-9V features an Auto Shut Off function to save the battery if the power switch is left on when the headset is not in use. The Auto Shut Off feature operates by sensing loss of microphone DC bias voltage when the headset is unplugged or aircraft audio system is shut off.
A switch is provided inside the battery compartment to control the Auto Shut Off feature. The XL-9V is shipped from the factory with this switch in the DISABLE position, which will provide continuous power to the ENC system whenever the power switch is on.

P/N 11-01783 ..... ---

DAVID CLARK UNDERCUT COMFORT-GEL EAR SEALS

Ear Seals have redesigned to be softer, more supple and form fitting, with a unique "undercut" shape that provides more room for your ears. This exclusive design makes for a larger, yet lighter ear seal. This new ear seal is now standard on the entire line of DC aviation headsets. New Ear Seal Features: • 26% lighter • 60% more surface area in contact with your head provides greater comfort by dissipation of necessary headband pressure • 30% more interior volume creates more room for your ear.

P/N 11-01782 ..... ---

DAVID CLARK M-7/DC MICROPHONE RETROFIT KIT

This Retrofit Kit allows you to upgrade your older model H10- Series aviation headset (H10-40, H10-30 etc..) microphones with M-7/DC Amplified Electret Microphone. Upgrade is simple and easy because no changes to the boom assembly are required .....P/N 11-16833 ..... ---

DAVID CLARK 6AA BATTERY PACK

Accepts 6 AA batteries. The protective cover keeps battery terminals from accidental contact with conducting surfaces while stored. Having a Spare Battery Cartridge, loaded and ready, will minimize time without electronic noise cancellation when batteries drain.

P/N 11-02019 ..... ---

AV

AVCOMM HEADSETS

A new, intercom-powered hands-free LED flashlight that's built into the headset microphone. Never require batteries. Provides power to the LED's without a battery pack! Has a backup power system that provides 30 minutes of power in case of power failure. Integrated version powered by the aircraft intercom system (No battery pack required)

AVCOMM AC-747FL HEADSET

Comes with GA and Helicopter cords Key Features: Ships Power FLITELite - no battery pack or wires required! Exclusive PNR technology and "plug and fly" design. Full flex boom Ultra-lite micro samarium cobalt speakers. Each ear cup features an independent volume control. M-60 microphone with active filtering chip Deluxe Comfort Package included Full five-year factory warranty Converts easily by plugging in either the general aviation straight cord or the helicopter coil cord (both included with the headset). FACTORY INSTALLED • Stainless steel headband with easy thumbnut adjustment • Deluxe comfort headpad • Acoustic foam earseals ALSO INCLUDED • 100% cotton ear covers • Acoustic mic muff .....P/N 11-02262 ..... ---

AVCOMM AC-200 PNR™ HEADSET

Simple and affordable PNR™ performance. Incredible voice clarity. Ultra-lite micro samarium cobalt speakers. Acoustic foam ear seals and acoustic mic muff. M-60 microphone with active filtering chip. Lighter weight; weighs only 13.4 oz. Full five-year factory warranty.

AC-200 PNR™ Standard

P/N 11-02259 ..... ---

AVCOMM AC-900HD PNR DELUXE HEADSET

The AC900HD PNR (Silver) offers enhancements which make the AC900HD PNR the premium choice in the Avcomm headset lineup. Pilots and passengers everywhere are praising the features and benefits, claiming its comfort and performance surpass anything they've used before. The powerful, ultra-lite Neodymium speakers produce a richer, smoother frequency response for both voice and music. The powerful magnetic core and diaphragm provide high sensitivity and optimized response.

P/N 11-16079 ..... ---

AVCOMM AC1000 ANR HEADSET

AC1000 Matte Black EditionActive Noise Reduction rated at 52 dB Bluetooth Connectivity for Audio and Communication. Dual GA Plugs. 3-Way Audio Priority Switch: A-Intercom Priority, B - All Audio Sources, C-Intercom Only. 3-Color Power/Battery Status LED. 4-Function Bluetooth Status LED. Deluxe leather Ear Cushions. Dual-Function Auto Shut Off. Auxiliary 3.5mm Audio Input (Cable included). Requires 2 AA batteries (batteries not included). 5-Year Warranty with 30-Day Money Back Guarantee.

P/N 11-16337 ..... ---

AVCOMM AC200 P/NR HEADSET

The AC-200FB PNR™ headset offers simple and affordable PNR™ (passive noise reduction) performance and is perfect for student pilots or extra an extra headset.

Features:

• Simple and affordable PNR™ performance • FULL Flex Boom • Dual volume controls for right and left ears • Incredible voice clarity • Higher noise attenuation • Ultra-lite Neodymium speakers • Volume control and easy to adjust stainless steel headband • Acoustic foam ear seals and acoustic mic muff • M-65 microphone with active filtering chip • Lighter weight; weighs only 13.4 oz. • 5yr. factory warranty.

P/N 11-02259 ..... ---

AVCOMM AC950 ANR DELUXE HEADSET

The AC950 ANR offers more in an improved design. These latest enhancements make the AC950 ANR the premium choice in the Avcomm headset lineup. Pilots and passengers everywhere are praising the features and benefits, claiming its comfort and performance surpass anything they have ever used before.

Features:

• Advanced ANR audio technology • Full spectrum stereo response • Each ear cup features an independent volume control • Electronic mic with active filtering chip for complete noise cancellation • Durable polyurethane coated domes with Platinum finish • Advanced battery pack with low battery indicator • Full flex boom and leather Ear Seals • Full five-year factory warranty • Free headset bag included .....P/N 11-17104 ..... ---

AVCOMM PERSONAL HEADSET BAG

These lightweight, tough bags provide protection for an individual headset, charts, or personal items. A zippered compartment on the outside is ideal for accessories.

P/N 11-15412 ..... ---

AVCOMM ACCESSORIES

Model No.	Description	Part No.	Price
	COMFORT ACCESSORIES		
P1-006	Foam ear seals - pair/small	11-02280	---
P1-007	Foam ear seals - pair/large	11-02281	---
P1-009	Deluxe gel ear seals - pair	11-02282	---
P1-004	Deluxe cloth ear covers-black	11-02283	---
P1-022	Acoustic mic muff	11-02284	---
P1-024	Acoustic mic muff	11-02285	---
P1-041	AvComm deluxe head pad	11-02286	---
	PARTS & ADAPTERS		
P2-001V2	Deluxe PTT switch	11-02287	---
P2-004	Adapter - GA to helicopter	11-02288	---
P2-005	Adapter - helicopter to GA	11-02289	---
P2-009	Headset extension cord - 5ft.	11-02290	---
P2-010	Headset splitter	11-02291	---
P2-121	Gen. aviation straight cord	11-02293	---
	MICROPHONES		
AC-454	Replacement Mic for AC-454 Headset	11-08807	---
AC-747	Replacement Mic for AC-900, AC-910, AC-920 Headsets	11-08808	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

HEADSETS INC. HEADSETS

HEADSETS INC. - 1001 PNR HEADSET

• 24dB NRR hearing protection • Noise-canceling electret mic • Rugged Mil-Spec cabling • Dual volume control • New Full flex boom • Wide comfort foam ear seals • Cotton cloth ear covers • Available in black or white • Weight 14.5 oz • 3 year factory warranty The 1001H is available with Foam Ear Seals, Gel Ear Seals, or in a Bundle. **Bundle includes:** Gel Ear Seals, Soft Top Headband, and Cloth Ear Covers.

Description	Part No.	Price
1001B Black PNR Headset	11-06494	---
1001BG Black PNR Headset w/Gel Seals	11-09564	---
1001B PLUS Black PNR Headset Bundle	11-10408	---
1001W White PNR Headset	11-09497	---
1001WG White PNR Headset w/Gel Seals	11-09565	---
1001W PLUS White PNR Headset Bundle	11-10410	---
1001TG Tan PNR Headset	11-10086	---
1001T PLUS Tan OND Headset w/Bundle	11-10409	---
1001H Black Heli. Headset	11-08228	---
1001HG Black Heli. Headset w/Gel Seals	11-09622	---
1001BH PLUS Black Heli. Headset w/Bundle	11-10411	---
1001WH White Heli. Headset	11-08223	---
1001WHG White Heli. Headset w/Gel Ear Seals	11-09620	---

HEADSETS INC. - 4001 STEREO PNR HEADSET

• 24dB NRR hearing protection • Noise canceling electret mic • Rugged Mil-Spec cabling • Dual volume control stereo • Pillow top head pad • Full flex boom design • Gel ear seals • Cotton cloth ear covers • Wind block mic muff • Weight: 15 oz • 3 year warranty Headsets Inc.-4001 the affordable aviation industry leader.

Black .....P/N 11-08093 ..... ---
White .....P/N 11-09566 ..... ---

HEADSETS INC. - 6001 ANR HEADSET

• Powerful ANR performance • Noise-canceling electret mic • Rugged Mil-Spec cabling, chrome plated plugs • Dual volume control stereo • Pillow top head pad • Full flex boom design • Gel ear seals • Wind block mic muff • Auto shut-off battery pack • Auxiliary power input jack • 20-hour battery life • Weight: 16.5 oz • 3 year warranty • D3P01 Personal Headset Bag.

Black .....P/N 11-08094 ..... ---
Tan .....P/N 11-10074 ..... ---

HEADSETS INC - 6001BT BLUETOOTH ANR HEADSET

The Headsets Inc. 6001BT has ear cups with internal baffle-plate providing the strongest ANR in the industry. With 18-20dB of noise reduction @ 200Hz with an effective range from 20 to 600Hz, the Headsets Inc. 6001 ANR is guaranteed to exceed the performance of any production ANR headset. When the noise is just too much, simply flip the switch and enjoy the flight. Additional features include extraordinary audio fidelity, Bluetooth connectivity, battery life LED indicator, chrome-plated plugs, ABS ear cups and chrome stainless steel headband combined with the best audio components makes the stereo Headsets Inc. 6001BT the affordable ANR headset aviation industry leader.

Description	Part No.	Price
Flat Black Dual GA Straight	11-18690	---
Flat Black 6-Pin Lemo Straight	11-18709	---
Flat Black U174 Heli Straight	11-18697	---
Flat Black U174 Heli Coiled	11-18703	---
Gloss Black Dual GA Straight	11-18693	---
Gloss Black 6-Pin Lemo Straight	11-18710	---
Gloss Black U174 Heli Straight	11-18698	---
Gloss Black U174 Heli Coiled	11-18704	---
Flat Forest Green Dual GA Straight	11-18694	---
Flat Forest Green 6-Pin Lemo Straight	11-18711	---
Flat Forest Green U174 Heli Straight	11-18699	---
Flat Forest Green U174 Heli Coiled	11-18706	---
Flat Tan Dual GA Straight	11-18695	---
Flat Tan 6-Pin Lemo Straight	11-18712	---
Flat Tan U174 Heli Straight	11-18701	---
Flat Tan U174 Heli Coiled	11-18707	---
Gloss White Dual GA Straight	11-18696	---
Gloss White 6-Pin Lemo Straight	11-18713	---
Gloss White U174 Heli Straight	11-18702	---
Gloss White U174 Heli Coiled	11-18708	---

HEADSETS INC. ACCESSORIES

GEL SEALS

Add all-day comfort with a pair of Deluxe silicone gel ear seals with the industry's first double bump design to keep the gel in place. Other gel seals tend to squash out over time. Deluxe gel seal will block out noise for increased noise reduction. Fits Headsets Inc. and other top brand general aviation headsets.

P/N 11-06496 ..... ---

PILLOW TOP HEADPAD

Enjoy your flight with Pillow Top headpad. 100% sheepskin eliminates the pressure on the top of the head. Made to fit all general aviation, over-the-head headsets with 5/8" headbands.

P/N 11-03014 ..... ---

FOAM EAR SEALS

Fits Headsets Inc. and other top brand general aviation headsets.....P/N 11-07366 ..... ---

CLOTH EAR COVERS

Great for comfort and hygiene! The cool cotton comfort improves the tactile quality of any ear seal. Easy to install, absorbs perspiration, and completely washable. These covers fit all general aviation headsets .....P/N 11-07367 ..... ---

MIC MUFF

This mic muff attaches easily, includes the o-ring retainer, improves transmission while eliminating wind noise, and protects the mic from moisture and dust. It is completely washable and fits all general aviation headset microphones.

Mic Muff .....P/N 11-06497 ..... ---

GENERAL AVIATION TO HELICOPTER ADAPTER

General Aviation to Helicopter Adapter converts general aviation application to helicopter.

P/N 11-09583 ..... ---

POWER SUPPLY FOR PANEL MOUNT HEADSETS INC. 6000, D800

Panel-mount power supply for Headsets Inc. 6000: The Panel-Mount Power Supply is for 12V aircraft. Save on batteries by powering the ANR system from aircraft power. Active noise reduction systems require a very stable and clean power supply. This panel-mount power supply has 2 voltage regulators, a DC-DC converter for isolation, and an in-line 1/4 amp fuse. For use with 11-08094 (6001B) & 11-10074 (6001T)

P/N 11-07180 ..... ---

ANR KIT M-003-A FOR STANDARD HELMET

All the components needed to install ANR into your flight helmet. Standard modules containing Audio Speaker, ANR speaker, sensing microphone and control board. Assembly parts containing wire, solder, tie wraps, shrink tubing and Aramid pads. Gray foam strips for passive noise attenuation. Power cable 72" long. Helmet Gel ear seals. Crossover cable to replace existing cable on headset. Standard Battery box to power ANR system. Uses (1) 9 volt transistor battery.....P/N 11-12166 ..... ---

ANR KIT FOR SHALLOW CUP HEADSETS

All the components needed for David Clark 13 series headsets and others that have shallow depth ear cups. MX modules (reduced height for shallow cups) containing Audio Speaker, ANR speaker, Sensing microphone and control board. Assembly parts containing wire, solder, tie wraps, shrink tubing and Aramid pads. Pink foam strips for Passive noise attenuation. Power cable 72" long to connect battery box to ANR system. Crossover cable to replace existing cable on headset. Standard Battery box to power ANR system. Uses (1) 9 volt transistor battery.

P/N 11-12165 ..... ---

AV

FLIGHTCOM HEADSETS

FLIGHTCOM CLASSIC ANR HEADSET

Flightcom's Classic ANR Headset is built with comfort features not found in similar headsets. With overstuffed Confor® foam ear seals and larger than normal headband, the classic aviation style provides extended comfort and performance. Comfort: Classic ANR's Confor® Foam ear seals, and a wide polar fleece headpad ensure comfort. Innovation: A volume control on each dome allows for independent adjustment. Noise reduction: We keep it quiet with our advanced hearing protection technology. Confor® Foam ear seals effectively block out sound. Noise reduction rating is enhanced by 14 to 18 dB at certain key low frequencies. Comes with a durable nylon carry case

• Precision flex boom with noise canceling electret microphone • 9-volt battery • Chrome headband with a washable polar-fleece headpad • Stereo/mono switch ensures audio compatibility • Mic muff and carrying case included • In-line, "drop-and-go" • Provides an additional 14-18dB noise attenuation at key low frequencies • Weight: 17.9 oz. • Dual-volume controls allow for independent volume adjustment in each ear dome • 3-year warranty..... P/N 11-01326 .....---

FLIGHTCOM DENALI D30SP

At 11 ounces, this fixed-wing headset is the lightest model available. Denali's ComLeather™ ear seals help abate noise and offer a comfortable fit. The sleek ear domes stay securely in place, reducing side force. Passive 21dB NRR rating.

P/N 11-10820 ..... ---

FLIGHTCOM 5DX CLASSIC

This headset provides supreme comfort and fit through its washable polar fleece headpad, silicone gel ear seals and cloth ear seal covers. Features include noise cancelling electret microphone, precision flex boom, dual volume controls, stereo/mono switch, 22dB noise reduction rating and all top quality components. Wt 17.9oz. 3-yr factory warranty.

P/N 11-08760 ..... ---

FLIGHTCOM E-13 ANR MILITARY HEADSET

Newly designed battery box includes SAT/cellphone support, auxiliary input and improved battery monitoring. Active Noise Reduction (ANR) provides an additional 14-18dB noise attenuation. USMC approved. Includes carrying case. Two-year warranty .....P/N 11-10396 ..... ---

FLIGHTCOM 4DX CLASSIC

The 4DX Classic is an entry-level headset with classic Flightcom ruggedness. With an easy-to-position wire articulated boom and a ventilated foam rubber headpad and combined liquid and foam ear seals, the 4DX Classic is comfortable and affordable. Noise canceling electret microphone • Single-volume control • Stereo/mono switchable • NRR 24dB • Weighs 16.9 ounces • Mic muff and cloth ear seal covers included • Three-year warranty

P/N 11-17110 ..... ---

FLIGHTCOM 4DLX CLASSIC

This headset combines the proven performance and affordability of the popular 4DX Classic headset with the comfort of the "air pillow" headpad. Features of the 4DLX Classic include combined foam and liquid ear seals, precision flex boom, noise cancelling electret microphone, stereo/mono switch, cloth ear seal covers, mic cover and 3-yr factory warranty. 24dB noise reduction rating Wt 16.8 oz.

P/N 11-17115 ..... ---

ACCESSORIES

P/N 11-07371

P/N 11-08765

P/N 11-08317

Headset Bag - Padded nylon headset bag with 2 chart-size mesh pocket.....P/N 11-07371 .....---
Comfort Seals.....P/N 11-17130 .....---
Gel-Flo Seals .....P/N 11-17135 .....---
Leather Ear Seals - 103-0019-10 Protein Leather Ear Seals. Fits all Denali headsets. .....P/N 11-05947 .....---
Cloth Ear Seal Covers - Fits dome style headsets 4DX, 4LX, 4DLX, & 5DX.....P/N 11-08467 .....---
Polar Fleece Headpad - Fits 4DX, 4DLX, 5DX & Classic ANR. Velcro closure. .....P/N 11-08313 .....---
Denali Hygiene Kit - Ear seals, headpad and mic muffs. .....P/N 11-04855 .....---
5DX Hygiene Kit - 2 gel ear seal, 2 cloth ear seal covers, 3 mic muffs and 3 securing o-rings.....P/N 11-08592 .....---
A9 Mic - Eliminates distortion and background noise, provides enhanced voice clarity. .....P/N 11-08765 .....---
Large Mic Muff.....P/N 11-17649 .....---
Small Mic Muff - With o-ring (3 pk). For use on F20.....P/N 11-08591 .....---
Polar Fleece Headpad - Fits 4DX, 4DLX, 5DX & Classic ANR. Velcro closure. .....P/N 11-08313 .....---
Flightcom Copilot Transmit Cable - Requires separate PTT. (Not compatible with iNova.) .....P/N 11-08309 .....---
Flightcom Cig Lighter Adapter - Adapter to power intercom from aircraft power. .....P/N 11-08310 .....---
PTT Switch Gold - Push-to-talk switch with durable gold contacts.....P/N 11-08311 .....---
FC-06 MIC Y Adapter - Allows pilot and copilot to share a single Mic jack. Req. separate PTT for each position. P/N 11-08314 .....---
Flightcom Cap - Black with White logo lettering.....P/N 11-08825 .....---
4 Place Jack Pack - Switchcraft mic and stereo headphone jacks & hardware to install up to four positions. .....P/N 11-08315 .....---
Flightcom FC-07 GA To Helicopter Adapter - Dual plug to single plug adapter .....P/N 11-08316 .....---
Open Cockpit Mic Muff - High density muff installs over existing muff on Classic headsets to block wind noise. .....P/N 11-08317 .....---

FLIGHTCOM COMBO PACKAGES

These combination packages offer extra savings as well as a pre-packaged set which includes two headsets, an intercom and a push to talk switch.

Ask for quote on any unlisted headset/intercom combo.

Combo#	Description (Combo includes:)	Part No.	Price
1A	2 Flightcom 4DX hdsts, (1) IISX 2 pl. intercom & (1) P-T-T switch	11-08705	---
1B	2 Flightcom 4DX hdsts, (1) IISX 4 pl. intercom & (1) P-T-T switch	11-08706	---
3A	2 Flightcom 4DLX hdsts, (1) IISX 2 pl. intercom & (1) P-T-T switch	11-08707	---
3B	2 Flightcom 4DLX hdsts, (1) IISX 4 pl. intercom & (1) P-T-T switch	11-08708	---
3C	2 Flightcom 5DX hdsts, (1) IISX 2 pl. intercom & (1) P-T-T switch	11-08717	---
3D	2 Flightcom 5DX hdsts, (1) IISX 4 pl. intercom & (1) P-T-T switch	11-08718	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TELEX HEADSETS

TELEX ECHELON 20 AVIATION HEADSET

Designed for students, new pilots, and value-conscious experienced fliers. Offers comfort, excellent hearing protection and value. Provides an impressive 20+ dB of passive noise protection and a top-quality noise canceling electret microphone. A low-profile headband for even weight distribution plus patented ComfortCam™ technology, a three-click tension adjustment system for a custom fit. Special earpieces with foam ear-seals pivot two ways to conform to any wearer while detent sliders adjust the headband....P/N 11-04564 ..... ---

TELEX AIRMAN 8+ DOUBLE SIDE ANR HEADSET AIRBUS XLR5 600OHM

Airman 8+ ANR Ultra Lightweight Headset 600 OHM refined design elements and a range of new features that make AIRMAN 8+ the best-performing Telex Airman Active Noise Reduction (ANR) headset to date. The Telex Airman 8+ is a lightweight noise-reducing headset designed specifically for optimizing pilot communications in commercial and business turbine aircraft. Building on the tradition of the Airman 8+ has improved ANR capability and comfort. The headset is only one of three FAA TSO C139a approved ANR headsets to utilize Telex's proprietary battery-free system. Larger pliable ear cushions and headband pad combined with dual axis ear cup pivots to provide long flight wearing comfort.

Dual GA.....P/N 11-18322 ..... ---
XLR5 Airbus .....P/N 11-18323 ..... ---

TELEX AIRMAN 8+ HEADBAND PAD

Telex replacement headband pad for Airman 8+
P/N 11-18324 ..... ---

TELEX AIRMAN 8+ LEATHER EAR CUSHIONS

Telex replacement leather ear cushions for Airman 8+. Sold as 1 pair.....P/N 11-18325 ..... ---

TELEX AIRMAN 8+ CARRYING CASE

Telex carrying case for Airman 8+
P/N 11-18326 ..... ---

TELEX AIRMAN 8+ HYGIENE COVERS

Telex hygiene covers for Airman 8+. 10 pack.
P/N 11-18327 ..... ---

TELEX AIRMAN 8 ANR HEADSET

Sound Quality - The Airman 8 features a high-quality amplified electret microphone for clear voice transmission. Improved ANR and microphone noise cancellation ensures superior in-flight communication. Active Noise Reduction- The Airman 8 headset features enhanced ANR (Active Noise Reduction) with even more noise reduction. Powered from its microphone system, eliminating the need for batteries or special connectors.

Dual GA Plugs(600 ohm) .....P/N 11-15433 .....---
Airbus XLR-5 Plug (600 ohm) .....P/N 11-15434 .....---

Accesories	Part No.	Price
Telex Airman 7 And 8 Windscreen	11-15440	---
Telex Airman 7 Ear Seal Pair Foam	11-15441	---
Telex Airman 7 Leatherette Ear Seals Pair	11-15442	---
Telex Airman 8 Ear Seals Pair	11-15443	---
Telex Airman 7 & 8 Clothing Clip	11-15444	---
Airman 7 & 8 Carry Case	11-15445	---
Telex Airman 7 & 8 Headband Pad	11-15446	---
Telex Airman 7 Hygeine Cover 10 Pack	11-15447	---
Airman 8 Hygeine Cover 10 Pack	11-15448	---

TELEX ACCESSORIES

Windscreen (750,Pro III,ANR500).....P/N 11-01112 ..... ---
Cushions (750, 760).....P/N 11-01113 ..... ---
Gel cushion-Full cushion headsets .....P/N 11-01114 ..... ---
Windscreen-Full cushion headsets .....P/N 11-01115 ..... ---
Foam Cushion - Full cushion headset .....P/N 11-01117 ..... ---
Air 3000/ ANR 4000/ Echelon 150 .....P/N 11-09445 ..... ---
Airman 750/760 Ear Seals .....P/N 11-01113 ..... ---

TELEX AIR 3100 HEADSET

The new Telex AIR 3100 is a medium weight headset (15 oz) which is extremely comfortable because of a unique headband knuckle design that distributes ear cushion pressure evenly over the entire ear circumference with no pressure point. Earcup tension is adjustable for preferred balance between noise reduction and comfort. The electret mic is mounted on a fully adjustable and hinged boom. The AIR 3100 replaces the D950 and E951 Telex headsets, and is collapsible for compact storage .....P/N 11-09440 ..... ---

TELEX AIRMAN 7+ DOUBLE SIDE PASSIVE HEADSET

The Airman 7+ ultra-lightweight passive noise reduction headset from Telex is a non-ANR version of the Airman 8+, designed for commercial and business pilots. It offers enhanced passive noise reduction, reducing fatigue-inducing background noise while keeping engines and conversations audible for a less isolated cockpit experience.

Dual GA Plugs.....P/N 11-20518 ..... ---
Airbus 5-Pin XLR Plug .....P/N 11-20519 ..... ---

TELEX PRO III 5X5 HEADSET

This headset from Telex features a single side soft ear tip receiver with superior noise cancelling amplifier. The electret microphone is fully adjustable for use on the right or left side. Order push-to-talk switch for aircraft not so equipped...P/N 11-09600 ..... ---

TELEX AIRMAN 750 HEADSET

A featherweight headset which is the lightest in the industry (2.5 oz.). Features a miniature noise-cancelling electret microphone that provides superior 400 Hz hum rejection. Microphone pivot arm pivots 310° for use on left or right side. The optional Telex PT-300 push-to-talk switch is recommended for use with the Airman 750..... P/N 11-09500 ..... ---
Airman 750 Airbus plug ..... P/N 11-09302 ..... ---
Foam Ear Cushions for 750/760
P/N 11-01113 ..... ---

TELEX AIRMAN 750 SINGLE-SIDED HEADSET

The Airman® 750SS is 25% lighter than the Airman® 750. Its effective weight (without the cord) is only 2.4 oz. Many pilots prefer the ergonomics of a single sided headset. It eliminates the need to pull off one of the earphones when listening to cockpit conversations..... P/N 11-01123 ..... ---

TELEX AIRMAN ANR 850

Uses Active Noise Reduction technology to provide up to 12dB of noise attenuation ensuring the clearest in-flight communication. Weighs less than 4 oz. Combines "set and forget" volume control with never worrying about a battery pack. Power to the ANR is provided by mic bias (active intercom) eliminating the need for battery packs or panel power. By drastically reducing wind noise in jet cockpits, the Airman ANR 850 helps to reduce fatigue. The Telex Airman ANR 850 is unsurpassed in clarity, comfort and convenience ..... P/N 11-01880 ..... ---
Telex Airman ANR 850 (Airbus Application)..... P/N 11-05464 ..... ---
Telex 850 Leather Ear Seals..... P/N 11-04332 ..... ---

TELEX HEADPHONES

TELEX AIRMAN 760 HEADPHONE

A featherweight headphone unit designed for use with hand-held microphones. For long term comfort, an adjustable clothing clip removes the cord weight from the head of the user. .....P/N 11-09300 .....---

TELEX AIRMAN 7 HEADPHONE ONLY 150 OHM

Sound Quality - High-quality amplified electret microphone. Durability - A strong stainless steel headband with metal pivots. Pre-coiled overhead cord has been added to extend the useful life of the headset. Comfort and Fit- The soft headband pad and lightweight design provides comfort, even on long flights. An added yoke provides enhanced comfort by allowing ear cup movement in all directions .....P/N 11-15439 .....

AV

HEADSETS – CLARITY ALOFT

KORE AVIATION P1 GENERAL AVIATION HEADSET

Mono, 24 db Passive Noise Reduction Rating, Noise Canceling Microphone, Acoustic Foam Ear Cups, AUX Port for MP3 Music Input with GA Dual Plugs.
KORE AVIATION's P1 Series Mono headset has it all at a value price point: comfortable foam ear seals, stainless steel finish, MP3 aux port. It's the perfect aviation headset for those just getting started and experienced pilots. Use for passengers and keep as spare -- at this price point, you can afford a headset for every seat.
1-year Manufacturer's Warranty serviced in the U.S.A. Premium Noise Reduction Rating (NRR) of 24db for Hearing Protection. Acoustic Foam Earcups with Stay-in-Place Wire Boom Mic. On-Ear Volume Control with 3.5mm Port for MP3/ iPhone/ iPad/ Android Compatibility
Headset with Bag ..... P/N 12-06328 ..... ---
Headset ..... P/N 12-06327 ..... ---

KORE AVIATION KA-1 PASSIVE HEADSET WITH HEADSET BAG

Mono and Stereo Compatibility, Passive Noise Reduction, Noise Canceling Microphone, Gel Ear Seals, Adjustable Headband, Headset Bag. Perfect aviation headset for all: pilots, passengers, instructors, student pilots, flight schools and more. It provides maximum comfort with ultra-soft gel ear seals, clear sound with exceptional noise reduction, durability built to last and luxury you can feel with the highest-quality materials. Until supplies last, receive a free custom carry bag with every purchase of headset.
5-year Manufacturer's Warranty serviced in the U.S.A. High-density acoustic foam ear cups with best in class passive noise attenuation. Up to 50% higher industry standard passive Noise Reduction Rating (NRR) of 24 dB. Clear 50mm performance audio speakers Ultra-soft silicone gel ear seals that allow your ears to breathe. Dual volume controls for quick adjustment on each ear Electret noise-canceling flex-boom microphone for quite communication .Gold plated plugs for best connection and corrosion resistance. Tough molded Y-block Mono/Stereo switch. 3.5mm audio port for iOS/ Android/ MP3 compatibility (will need separate male-to-male 3.5mm cord that is not included)
P/N 12-06326 ..... ---

NAV-DATA ND-71 DELUXE HEADSET

The Nav-Data Technologies deluxe headset has one of the best passive noise reduction ratings of most headsets. Nav-Data Headset: • Switch selectable stereo or mono operation • Dual volume controls • Gel earseals for extra comfort and noise attenuation • Super padded head band for comfort during long flights • Full flexible mic boom - stays where you put it! • Noise canceling electret mic • Weighs only 14.3 ounces.
P/N 13-06087 ..... ---

SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE LIST OF HEADSETS, PART NUMBERS, AND PRICES.

SUPER SOFT TOP FOR HEADSETS

The Super Soft Top headset is the ultimate in comfort. Put this headset on and feel the difference! It contains two layers of foam and one layer of polyester wool that is covered with a 90% cotton fabric for maximum humidity absorption. Easy to install, it fits the following headsets: • All David Clark models, (except DC20-10 series) • All Pilot Avionics models, (except PA-1776, PA-1779,Premier,Concord HNE,& Commander series) • All Marv Golden MG's * All Sigtronics • All ASA's * All Softcom's • All Flightcom models (except F-20 & Eclipse).
P/N 13-00358 ..... ---

CLARITY ALOFT PRO PLUS HEADSET

The Pro Plus is designed for the discerning professional pilot who needs the ultimate in performance in a TSO certified headset. Robust wiring, exceptionally stable microphone boom, and our legendary comfort combine to make this the best option for the career pilot. The fact that the hearing protection is so good that it can go seamlessly from an airliner to an aerobatic plane just adds to the appeal of the Pro Plus. **Includes**: • 6 pairs of medium tips • Sample pairs of small and large tips • Semi-rigid ballistic nylon carrying case • 2 lapel clips • Quick Start Guide ..... P/N 11-13294 ..... ---

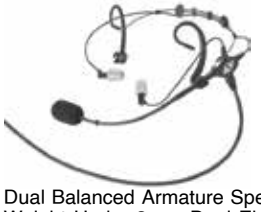
CLARITY ALOFT HEADSET

Used to improve both hearing protection and speech communications. Each earpiece includes a miniature speaker that reproduces speech signals from the aircraft audio system. The replaceable compliant foam tips attach to the earpiece and contain a pathway for the sound to travel from the transducer to the ear. Provides the highest level of hearing protection available by any method including active noise reduction. (ANR) The noise-canceling microphone is a high fidelity noise canceling Electret Condenser microphone. Include a music input in the Volume control box. This button could also be used as a backup in case of other system failures. Balance and comfort are the result of its elegantly simple design
P/N 11-02923 ..... ---

CLARITY ALOFT LINK AVIATION HEADSET

Wirelessly connect to multiple Bluetooth devices for phone calls, music, and more. Tailored Digital Signal Processing gives it the clearest sound available today. Purchase includes: Headset, carrying case, owner's guide, starter supply of eartips (package of 12), and 2 AA batteries. **Features:** • Full spectrum noise reduction • Professional grade microphone with added Digital Signal Processing • 2 Bluetooth devices can be linked simultaneously • Enjoy music and movies on your iPod or iPad
P/N 11-10420 ..... ---

CLARITY ALOFT FLEX AVIATION HEADSET



The Flex is light and customizable. Move the microphone from left to right, adjust the headband to perfectly fit your head, and fold it flat for storage. It's TSO certified for commercial use and perfect in every other environment. Dual GA Plugs. **Features**: • Dual Balanced Armature Speakers • 29-47 dB Noise Reduction • Head Weight Under 2oz • Dual Electret Microphone • Left or Right Side Mic • Music Input • No Batteries Required • TSO Certification from FAA • Adjustable • Fold-Flat Storage ..... P/N 11-16552 ..... ---

CLARITY ALOFT ACCESSORIES

Description	Part No.	Price
Headset Bag	11-08441	---
Microphone Cover	11-04644	---
Replacement Ear Tips - Standard (Gray) 6 Pairs	11-04643	---
Replacement Ear Tips - Slim (Peach) 6 Pairs	11-04642	---
Replacement Ear Tips - Large (Black) 6 Pairs	11-15133	---
Adjustment Bands	11-13291	---
Lapel Clip	11-13290	---

MY LITTLE EAGLE YOUTH AVIATION HEADSETS

This headset will comfortably fit kids two years old up to adulthood. With an insanely comfortable fit, your little one will enjoy all-day comfort while flying. Insanely comfortable head cushion and ear seals: The pillow-cell foam head cushion is exceptionally soft and conforms to the shape of the head. Crystal clear communication: An electret noise-canceling microphone filters out unwanted ambient noise for crisp, clear, and quiet communication.
Jet Blue ..... P/N 13-25691 ..... ---
Camo Green ..... P/N 13-25692 ..... ---
Sakura Pink ..... P/N 13-25693 ..... ---
Afterburn Red ..... P/N 13-25694 ..... ---
Headset Bag ONLY ..... P/N 13-25695 ..... ---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PILOT USA HEADSETS

PILOT USA CARBON A1 ANR HEADSETS

So light you may forget that you have a headset on when you get out of the aircraft • Made with carbon fiber material, 30% lighter than regular headsets • Connect to two devices at the same time! • Record out capabilities to camera/digital recorder or smart phone • USB -C external power source input • AUX input capabilities, dual volume control • Two AA batteries 20-25 hour continues usage • Detachable comm cord for different applications. (GA, Heli, 6 pin lemo) • ANR attenuation 19-21 db @ 150 Hz 5 year warranty

Dual GA ..... P/N 11-18785 ..... ---
U-174 Heli ..... P/N 11-18786 ..... ---
Panel Power LEMO ..... P/N 11-18787 ..... ---

PILOT USA PRO MAX PASSIVE HEADSET WITH BLUETOOTH

The Pro Max headset is an affordable entry level headset, and provides Bluetooth capability of connecting two devices at the same time. This allows more individuals to access the necessary features without a significant financial burden. Additionally, affordable headsets can be beneficial for flight schools and training programs, enabling them to provide necessary gear to students without excessive costs. P/N 11-20262 ..... ---

PILOT USA PA-1100 LISTEN ONLY HEADSET

Keep your passengers informed and protect their hearing with our lightweight listen-only headset. Audio input jack allows user to listen to their favorite IPOD®, MP3®, cd player or monitor a radio. Your passengers will thank you for making their flight more enjoyable. NRR 24.

PA-1100 ..... P/N 11-06516 ..... ---
PA-1100S Stereo ..... P/N 11-06515 ..... ---

PILOT USA PA-1160AI HEADSET

The headset is designed to plug directly into the ICOM® A2, A3, A4, A20, A21 and A22 aviation transceivers eliminating any need for extra adapters. It can also be used with the A6, A14, and A24 but we suggest the PA-1160AI/R with Right angle plug for those latter models that have the input on the side of the radio. For ease of use, we have installed an inline Press-To-Talk (PTT) switch on the comm-cord. Great to have at air shows to listen to the tower and performers. ICOM Straight Plug..... P/N 11-12982 ..... ---

PILOT USA CARBON P1 PASSIVE HEADSET

So light you may forget that you have a headset on when you get out of the aircraft. • Made with carbon fiber material, 30% lighter than regular headsets. • Connect to two devices at the same time! • Record out capabilities to camera/digital recorder or smart phone. • USB -C external power source input. • AUX input capabilities, dual volume control • Two AA batteries 20-25 hour continues usage. • Detachable comm cord for different applications. (GA, Heli, 6 pin lemo) • ANR attenuation 19-21 db @ 150 Hz • 5 year warranty.

Dual GA ..... P/N 11-18782 ..... ---
U-174 Heli ..... P/N 11-18783 ..... ---
Panel Power LEMO ..... P/N 11-18784 ..... ---

PILOT USA PA-1140HNE GROUND CREW HEADSET

Great fit for aviation ground crew, passive noise attenuating headset preferred by ground crews around the world. This behind-the-head style allows headset to be worn under a hard hat while maintaining a secure fit and clear communications. Headset comes normally with an electret noise canceling microphone. This style of headset can also be fitted with various 2-way radio plugs and can be worn under a hard hat where hand held radios are in use. NRR 27 Three Year Warranty.

P/N 11-06511 ..... ---

PILOT USA PA-1110 SINGLE SIDE HEADSET

This single sided ear cup headset is perfect for monitoring a radio and keeping one ear free to listen to crew members or monitor a 2nd radio source. One stirrup and ear cup have been replaced with an adjustable 2 cushion Air-Foam temple pad. Headset is fitted with a half flex/half metal mic boom with a noise canceling PA-7 electret microphone. Ear seals are liquid and foam for comfort and excellent noise cancellation. Weight 9.6 ounces. Three Year Warranty.

PA-1110 ..... P/N 11-06513 ..... ---
PA-1110H Helicopter ..... P/N 11-06514 ..... ---

PA-1779M MILITARY HEADSET

• Passive Noise Reduction (NRR): 25dB • Active Noise Reduction: Additional 20-22dB • Genuine Sheepskin Headpad • Gel Ear Seals • M-87/AIC Dynamic Microphone • Custom Padded Protective Case • Rechargeable NIMH battery • Usage Time: 30-40 hrs • Coiled Cord with U-174/U Plug • Weight: 16.9 ounces (479 grams) • Five Year Warranty • Made in U.S.A

PA-1779M87 ..... P/N 11-06539 ..... ---
PA-1779M101 ..... P/N 11-06538 ..... ---

PA-1176M MILITARY HEADSET

• Passive Noise Reduction (NRR): 24dB • Dual Volume Controls • Pillow-Top Headpad • Gel Ear Seals • M-87/AIC Dynamic Microphone • Metal Hinged Microphone boom • Cloth Ear Seal Covers • Soft Padded Headset Case • Coiled Cord with U-174/U Plug • Weight: 16.9 ounces (479 grams) • Three Year Warranty

PA-1176M87 ..... P/N 11-06543 ..... ---

PA-1166M MILITARY HEADSET

• Passive Noise Reduction (NRR): 25dB • Dual Volume Controls • Pillow-Top Headpad • Gel Ear Seals • M-101/AIC Dynamic Microphone • Metal Hinged Microphone boom • Cloth Ear Seal Covers • Soft Padded Headset Case • Coiled Cord with U-174/U Plug • Weight: 16.9 ounces (479 grams) • Three Year Warranty

PA-1166M101 ..... P/N 11-06544 ..... ---
PA-1166M87 ..... P/N 11-06545 ..... ---

FLIGHT LITE GEN II DUAL SENSOR PILOT LIGHT

FLITELite GEN II Dual Sensor Pilot Light. The New GEN II is 30% smaller, and more efficient than GEN One. The new version was developed to meet MIL-STD-3009, for Night Vision Imaging Systems (NVIS) aircrew auxiliary and utility lighting. This light is also perfect for the General Aviation Cockpit. FLITELite comes complete with: • GEN II FLITELite unit, computer controlled, dual sensor pilot light • Headset or Helmet Adapter (new adapters are free) • AAA Battery Pack • Optional Coin Cell Pack • Attachment accessories • AAA Batteries • Warranty

Headset	White	Red	Blue	Green	Price lights	Night Vision	Price Night Vision
Bose X	11-07034	11-08002	11-08003	11-08004		11-07038	
Bose A20	11-14097	11-14099	---	11-14098			
Lightspeed	11-07035	11-08006	11-08007	11-08008	---	11-07039	---
David Clark	11-07036	11-08010	---	11-08013		11-07040	
Sennheiser	11-07037	11-08014	11-08015	11-08016		11-07041	
Optional Coin Cell Battery Pack				11-07872		---	

PILOT USA H10-76 CONVERSION KIT

Allows the use of a David Clark 11-02226 (H10-76) or 11-05428 (H10-76XL) low impedance headset in a general aviation aircraft. Kit includes a noise canceling electret microphone (high impedance), and adapter to convert the H10-76's single U-174/U plug to a dual plug system (PJ-068 and PJ-055) P/N 11-14427 ..... ---

C-20 COBRA HEADSET

Features for this headset include an extra thick ventilated cushion headpad and ear seals for maximum comfort, earphones wired in parallel for safety and reliability, adjustable boom microphone that can be placed on left or right side of mouth, and high performance noise cancelling microphones P/N 17-00237 ..... ---

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PILOT USA HEADSETS

PA-1779T ANR HEADSET

• Passive Noise Reduction (NRR): 25dB • Active Noise Reduction: Additional 20-22dB • Auto Shutoff System • Cell/Satellite Phone Interface • Auxiliary Audio Interface for Music or Audible Checklist/Warnings • Mono/Stereo Capability • Dual Volume Controls • Genuine Sheepskin Headpad • Gel Ear Seals • Noise Cancelling Electret Microphone • Custom Padded Protective Case • Rechargeable NIMH battery • Usage Time: 30-40 hrs • Weight: 16.9 ounces (479 grams) • Five Year Warranty • Made in U.S.A

PA-1779T .....P/N 11-11515 ..... ---
PA-1779TH (Helicopter) .....P/N 11-03538 ..... ---
PA-1779TP (Panel Mount) .....P/N 11-00440 ..... ---
PA-1779TB (Bose Connect).....P/N 11-03539 ..... ---

PA-1771T ANR HEADSET

• Passive Noise Reduction (NRR): 25dB • Active Noise Reduction: Additional 20-22dB • Auto Shutoff System Cell/Satellite Phone Interface • Auxiliary Audio Interface for Music or Audible Checklist/Warnings • Mono/Stereo Capability • Dual Volume Controls • Genuine Sheepskin Headpad • Gel Ear Seals • Noise Cancelling Electret Microphone • Custom Padded Protective Case • Powered by 9V Battery • Battery Life: 25-30 hrs • Weight: 13.4 ounces (380 grams) • Five Year Warranty • Made in U.S.A

PA-1771T .....P/N 11-02110 ..... ---
PA-1771TH (Helicopter) .....P/N 11-03537 ..... ---

PA-1761T ANR HEADSET

• Passive Noise Reduction (NRR): 24dB • Active Noise Reduction: 16-19dB • Auto Shutoff System • Cell/Satellite Phone Interface • Auxiliary Audio Interface for Music or Audible Checklist/Warnings • Mono/Stereo Capability • Dual Volume Controls • Pillow Top Headpad • Gel Ear Seals • Noise Cancelling Electret Microphone • All Flexible Microphone Boom • Cloth Ear Seal Covers • Soft Padded Headset Case • Powered by 9V Battery • Battery Life: 25-35 hours • Weight: 16.9 ounces (479 grams) • Three Year Warranty

PA-1761T ..... P/N 11-03550 ..... ---
PA-1761TH (Helicopter) ..... P/N 11-06505 ..... ---

PA-2170T PASSIVE HEADSET

• Passive Noise Reduction (NRR): 26dB • Cell/Satellite Phone Interface • Auxiliary Audio Interface for Music or Audible Checklist/Warnings • Mono/Stereo Capability • Dual Volume Controls • Genuine Sheepskin Headpad • Gel Ear Seals • Noise Cancelling Electret Microphone • Soft Padded Headset Case • Weight: 12.4 ounces (352 grams) • Five Year Warranty • Made in U.S.A.

PA-2170T.....P/N 11-04940 ..... ---
PA-2170TH (Helicopter) ...P/N 11-03553 .....

PILOT USA PA-1160A HEADSET

This aviation headset eliminates any need to compromise. Everything you want in a headset, comfort, able to be used with a stereo intercom and individual ear volume controls for perfect audio adjustment. The headset is designed to plug directly into the ICOM® aviation transceivers eliminating any need for extra adapters. It can also be used with the A22 but we suggest the PA-1160AI/S with Straight plug for those models that have the input on the top of the radio. For ease of use, it includes an inline Press-To-Talk (PTT) switch on the comm-cord. **Note: Icom IC-A4 required straight plug connector. This right angle version will not fit.**

For ICOM A6/A14/A24..... P/N 11-06508 ..... ---
ICOM A16 ..... P/N 11-20521 ..... ---
ICOM A25 ..... P/N 11-20539 ..... ---

PA-1181T PASSIVE HEADSET

• Passive Noise Reduction (NRR): 24dB • Cell/Satellite Phone Interface • Auxiliary Audio Interface for Music or Audible Checklist/Warnings • Mono/Stereo Capability • Dual Volume Controls • Push-to-Talk Switch (PTT) on Ear Cup • Pillow-Top Headpad • Gel Ear Seals • Noise Cancelling Electret Microphone • All Flexible Microphone Boom • Cloth Ear Seal Covers • Soft Padded Headset Case • Weight: 15.9 ounces (389 grams) • Three Year Warranty • Also Available in PINK!

PA-1181T .....P/N 11-03554 ..... ---
PA-1181T-P (Pink) .....P/N 11-07326 ..... ---
PA-1181TH (Helicopter).....P/N 11-03555 ..... ---

PA-1171T PASSIVE HEADSET

• Passive Noise Reduction (NRR): 24dB • Cell/Satellite Phone Interface • Auxiliary Audio Interface for Music or Audible Checklists/Warnings • Mono/Stereo Capability • Dual Volume Controls • Super Cushion Headpad • Confor® Foam Leatherette Ear Seals • Noise Cancelling Electret Microphone • Half Metal / Half Flex Microphone boom • Soft Padded Headset Case • Weight: 14.9 ounces (422 grams) • Three Year Warranty

PA-1171T .....P/N 11-03556 ..... ---
PA-1171TH (Helicopter).....P/N 11-03557 ..... ---

PA-1161 PASSIVE HEADSET

• Passive Noise Reduction: (NRR) 24dB • Half Metal/Half Flex "Memory" Microphone Boom • Noise Canceling Electret Microphone • Foam Head Pad • Mono/Stereo Capability • Foam Ear Seals • Individual Volume Controls • Warranty: Three Year Warranty.

PA-1161 .....P/N 11-11560 ..... ---

PA-1151ACB/ACG CHILD PASSIVE HEADSET

• Passive Noise Reduction (NRR): 24dB • Auxiliary Audio Interface for Music • Mono/Stereo Capability • Dual Volume Controls • Mini Super Cushion Headpad • Foam Ear Seals • Noise Cancelling Electret Microphone • Mini Full Flex Microphone Boom • Small Headband for Perfect Fit • Weight: 11.9oz (337 grams) • Three Year Warranty • ACB has 1 RED and 1 BLUE ear cup. ACG has PINK ear cups.

PA-1151ACB (Boys).....P/N 11-09660 ..... ---
PA-1151ACG (Girls).....P/N 11-03540 ..... ---

PILOT USA PRO MAX ANR HEADSET WITH BLUETOOTH

The ProMax ANR Bluetooth Aviation Headset is one of the lightest and cost-friendly ANR headset available! The technology and comparison testing show it to be an unbeatable value. It contains more features than any other ANR headset currently available. Connect to two devices at the same time! Record out capabilities to camera/digital recorder or smart phone. USB -C external power source input. AUX input capabilities, dual volume control. Two AA batteries 20-25 hour continues usage. Detachable comm cord for different applications. (GA, Heli, 6 pin lemo) ANR attenuation 19-21 db @ 150 Hz

Dual GA.....P/N 11-20426 ..... ---
6 Pin LEMO.....P/N 11-20427 ..... ---
U174 Heli.....P/N 11-20428 ..... ---

PILOT USA BLUETOOTH CELLPHONE / MUSIC ADAPTER

BluLink enables you to use your Bluetooth cell phone and any music source wirelessly in the cockpit. You can use your existing general aviation, helicopter, Bose style panel mount, or military aviation headset with BluLink. No more tucking your cell phone under your headset or adapters with various additional cords and adapters. The BluLink will work with any cell phone with Bluetooth version 2.0 or lower. Great for filing a flight plan, checking weather, calling for fuel, getting a clearance at an uncontrolled field, calling a taxi, voiding a flight plan, closing a VFR flight plan, calling for a taxi. Can be use as primary communications for experimental and ultralight pilots.

Fpr GA Headsets: Works for general aviation headsets equipped with standard dual plugs .....P/N 11-06553 .....---
For Helicopter Headsets: Works for helicopter headsets equipped with the U-174 single plug.....P/N 11-06613 .....---
For Lemo Headsets: Works for panel powered headsets equipped with the Bose style single plug.....P/N 11-06614 .....---

AV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RUGGED AIR HEADSETS

RUGGED AIR RA200 HEADSET

Headset with 24 db NRR, Clear Hear performance audio speakers, volume control and 3.5mm music input jack for Ipods and MP3. With Foam Fit ear seals, stainless steel headband and Deep Pocket ear canals student pilots and flight instructors will enjoy the all day comfort of the RA200. Superior Clear Hear 50mm audio performance speakers. EM56 noise reflective cup microphone and wind block foam mic muff. 7 year factory warranty
Rugged Air is bringing new audio technology with the same proven reliable cup and headband design. Finish it off with gold plated plugs, tough molded Y block, music input port, Total Shield cabling, and EM56 noise reflective microphone the RA200 is the perfect choice for all of your aviation adventures .....P/N 13-09291 ..... ---

RUGGED AIR RA900 FLEX HEADSET

The Rugged Air aviation headset with 24 db NRR, Clear Hear performance audio speakers, dual volume control stereo weather proof push to talk on the dome and 3.5mm music input jack for Ipods and MP3. With Foam Fit ear seals, stainless steel headband and Deep Pocket ear canals student pilots and flight instructors will enjoy the all day comfort of the RA900. Never miss an instruction with the superior Clear Hear 50mm audio performance speakers. Always be heard with the all new designed EM56 noise reflective cup microphone and wind block foam mic muff. 7 year factory warranty
Rugged Air is bringing new audio technology with the same proven reliable cup and headband design. Finish it off with gold plated plugs, tough molded Y block, music input port, Total Shield cabling, and EM56 noise reflective microphone the RA900 is the perfect choice for all of your aviation adventures .....P/N 13-09293 ..... ---

RUGGED AIR RA980 ANR STEREO AVIATION HEADSET

The RA980 headset does it all and then some! This general aviation headset boasts active noise reduction, bluetooth cell phone and music streaming, and is engineered from the finest materials including true carbon fiber. With a noise reduction rating of 26dB, the RA980 provides ANR hearing protection. It is powered by two AA batteries and the control module has a power indication light so you can always know how much battery life you have left. In the event of the batteries going completely dead, the headset is still able to provide passive noise reduction with a rating of 20dB. 7 Year Warranty. .....P/N 13-21307 ..... ---

RUGGED AIR RA250 CHILD HEADSET

Headset with 24 db NRR, Clear Hear performance audio speakers, volume control and 3.5mm music input jack for Ipods and MP3. With Foam Fit ear seals, stainless steel headband and Deep Pocket ear canals student pilots and flight instructors will enjoy the all day comfort of the RA250. Never miss an instruction with the superior Clear Hear 50mm audio performance speakers. Always be heard with the all new designed EM56 noise reflective cup microphone and wind block foam mic muff. 7 year factory warranty.
Rugged Air is bringing new audio technology with the same proven reliable cup and headband design. Finish it off with gold plated plugs, tough molded Y block, music input port, Total Shield cabling, and EM56 noise reflective microphone the RA200 is the perfect choice for all of your aviation adventures. .....P/N 13-09292 ..... ---

RUGGED AIR RA950 ANR STEREO AVIATION HEADSET

The Rugged Air RA950-ANR aviation headset with Active Noise Reduction, Clear Hear performance audio speakers, dual volume control stereo, and easy access 9v battery pack with mono/stereo switch. With urethane Gel ear seals, fully adjustable spring steel headband and Deep Pocket ear canals, pilots and flight instructors will enjoy the all day comfort of the RA950-ANR. Never miss ATC with the superior Clear Hear ANR audio technology blocking out the background noise. Always be heard with the all new designed EM58 noise cancelling microphone and wind block foam mic muff. 2 year factory warranty
Rugged Air is bringing new ANR audio technology with the same proven reliable cup and headband design. Finish it off with gel ear seals, comfort top head pad, quick change 9v battery compartment, Total Shield cabling, and EM58 noise reflective microphone the RA950-ANR is the perfect choice for all of your aviation adventures.
P/N 13-09294 ..... ---

RUGGED AIR RA620 HELICOPTER HEADSET WITH DUAL VOLUME CONTROL

Rugged Air brings new audio technology with the same proven reliable cup and headband design. With Stay Put full flex boom, Clear Hear performance speakers and a 24 dB noise reduction rating ATC will come through loud and clear. Always be heard with the all new designed EM56 noise reflective cup microphone with wind blocking foam mic muff. Other features include volume control, 3.5mm music input port for Ipods and MP3, Foam Fit ear seals, and an adjustable stainless steel headband. Finish it off with Military grade U174 plug, tough durable coil cord, and Total Shield cabling.
The Rugged Air RA620 headset is the perfect choice for all of your flying adventures.

Specifications:

- 24 dB NRR Hearing Protection
- Stay Put Full Flex Boom
- Tough Durable Coil Cord
- Stainless Steel Construction
- Universal 3.5mm Music Port
- Clear Hear Audio Speakers
- Wind Block Foam Mic Muff
- EM56 Noise Reflective Cup Mic
- Easy Adjustable Headband
- Foam Fit Comfort Ear Seals
- Full Factory 7 Year Warranty .....P/N 13-10016 ..... ---

RUGGED AIR HEADSET ACCESSORIES

Description	Part No.	Price
Straight cord for music (IPod or MP#)	13-09295	---
Cloth Ear Covers	13-09298	---
Small Foam Ear Seals	13-09299	---
Large Foam Ear Seals	13-09300	---
Gel Ear Seals	13-09301	---
Wind Blocking Foam Mic Muff	13-09302	---
Deluxe Foam Headpad	13-10017	---
Push-to-talk	13-09304	---
GA to Helicopter Adapter	13-09305	---
Helicopter to GA Adapter	13-09307	---
RA200 Main Cable	13-09311	---
RA900 Main Cable	13-09312	---
RA950 Main Cable	13-09313	---
Large Headband	13-10018	---
Small Headband	13-10019	---
Electret Mic for flex boom non amplified	13-10022	---

HEADSETS – HELMET LINERS

FARO G2 PASSIVE HEADSET

The Faro® G2 Passive Noise Reduc-tion (PNR) provides precise and clear audio, offering everything you would want in an aviation headset. **Large Soft Cushion** - Extra Comfort for long cross-country flights. Made of soft, durable fiber, the cushion makes the headset feel extra light. **Always Loud. Always Clear.** - A fully adjustable microphone beam with wind screen allows ATC and your companions to hear you loud and clear. The microphone has been perfected to deliver high quality, crystal clear communication. **Silicone Ear Protection** - Soft ultra-thick gel ear protection provides you with an amazing 26db in noise reduction and comfortably protects your ears. Featuring dual volume controls, and an MP3 / iPhone Audio Input.....P/N 13-16041 ..... ---

FARO G2 ANR HEADSET

The Faro® G2 Active Noise Reduction (ANR) is designed for pilots who want the quietest cockpit. Using the newest sound technology, the G2 Active noticeably reduces cockpit noise up to 52db. So you can fly longer, more comfortably, and in a quieter environment. **Large Soft Cushion** - Extra Comfort for long cross-country flights. Made of soft, durable fiber, the cushion makes the headset feel extra light. **Always Loud. Always Clear.** - A fully adjustable microphone beam with wind screen allows ATC and your companions to hear you loud and clear. The microphone has been perfected to deliver high quality, crystal clear communication. **Soft Leather Ear Protection** - The soft faux-leather ear protection provides you with an amazing 23db in passive and an incredible 52db of noise reduction with active noise reduction turned on. Engineered to comfortably protect your ears on the longest cross country flights. Featuring dual volume controls, and an MP3 / iPhone Audio Input. **Active Noise Reduction Technology (ANR)** - The Faro Active reduces the unwanted ambient noise in the cockpit by using both Passive Noise Reduction (PNR) and Active Noise Reduction (ANR).....P/N 13-16042 ..... ---

FARO G3 ANR HEADSET

The First Premium Aviation Headset made of Carbon Fiber. Faro G3 is unlike any other headset you have ever worn. Hold it for just a second to realize what thousands of pilots have realized, this is very light. At only 9oz, you will truly appreciate the low-key, low-weight design of Faro G3 .....P/N 13-20711 ..... ---

FARO AIR IN-EAR HEADSET

Lightweight, only 1 oz. Not limited to jets. Use in any GA aircraft or helicopter. Three-Year Warranty. Provides up to 50db of Noise Reduction. Music Input. Dual Volume Control. Replaceable foam ear plugs. Dual GA Plugs.
P/N 11-16235 ..... ---

TELY TECHNOLOGIES ACE ANR AVIATION HEADSET

Crafted with lightweight, durable carbon fiber, headsets' cup design enhances sound quality while optimizing noise-canceling characteristics—perfect for achieving a clear, comfortable ride. In addition to reducing ambient sound, ANR Headsets come equipped with Bluetooth, so you can make phone calls or listen to music whenever you choose .....P/N 11-19181 ..... ---

TELY TECHNOLOGIES SOLO PNR AVIATION HEADSET

TELY PNR Headsets feature an ear cup push-to-talk button, making it easier than ever to contact ATC—even for instructors, who can conveniently communicate with ATC from the pilot's seat, with no need to take control of the yoke. Separate volume controls for left and right ear cups, plus a completely reversible design, add to the flexibility of this versatile pilot's tool .....P/N 11-19182 ..... ---

HEADSET BUYBACK PROGRAM

Aircraft Spruce accepts the return of most models of headsets for credittowards the purchase of certain high end ANR headsets. Please call or email our sales team for pricing and availability on trading in your head-set at 877-477-7823 or info@aircraftspruce.com.
Used headset credit will be applied to your Aircraft Spruce account which can then be used towards the purchase of a new headset over $600value (only one used headset will be accepted towards the purchase of one of these new headsets). Used headset must be complete, having all accessories, and the unit must be in good cosmetic and working condition. Any unit not meeting this requirement may receive a lesser credit value or have the unit returned.

ZETA™ / ZETA II™ HELMET LINERS

Visco-elastic foam sewn into cool, washable wear-resistant fabric. Eliminates top-of-head hot spots. Self-wicking fabric controls heat buildup by evaporative cooling of perspiration. Eliminates "bob and roll" when mounting external equipment. Lighter weight than other liners. Fitting only takes a few minutes. Testing shows these helmet liners reduce skin temperature 1.5°F compared to existing liner systems.
Both liners come in four thicknesses: 1/4", 3/8", 1/2" and 5/8". The most commonly used thickness is 3/8".

Visit our website for the Application, Installation, Cleaning Instructions, and Sizing Chart in pdf format.

Zeta™ Helmet Liners							
Size	Thickness	Part No.	Price	Size	Thickness	Part No.	Price
12"	1/4"	11-09857	---	15"	1/4"	11-09872	---
12"	3/8"	11-09858	---	15"	3/8"	11-09873	---
12"	1/2"	11-09859	---	15"	1/2"	11-09874	---
12"	5/8"	11-09861	---	15"	5/8"	11-09875	---
13"	1/4"	11-09862	---	16"	1/4"	11-09876	---
13"	3/8"	11-09863	---	16"	3/8"	11-09877	---
13"	1/2"	11-09864	---	16"	1/2"	11-09878	---
13"	5/8"	11-09866	---	16"	5/8"	11-09879	---
14"	1/4"	11-09867	---	17"	1/4"	11-09881	---
14"	3/8"	11-09868	---	17"	3/8"	11-09882	---
14"	1/2"	11-09869	---	17"	1/2"	11-09883	---
14"	5/8"	11-09871	---	17"	5/8"	11-09884	---

Zeta II™ Helmet Liners			
Size	Thickness	Part No.	Price
16"	1/2"	11-07976	---
17"	3/8"	11-07979	---
17"	5/8"	11-07981	---
18"	5/8"	11-07985	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CRAZEDPILOT IN EAR HEADSET DUAL GA PLUGS

IN-THE-EAR STEREO Aviation Headset, with comfort-fit ear buds and a molded design to fit comfortably in the ear. No sharp edges or expensive foam tips - simply select from the 3 washable rubber tips included for a proper fit. Excellent quality construction and easy to put on, you'll love this aviation headset for its compact design, comfort, and ease of use. Includes a custom fit hard shell carrying case with multiple pouches.
The noise reduction in-the-ear aviation headset is 22 dB.
Simply hook the headset over your ears, insert the in-ear stereo speakers, and press inward to form a tight seal. The outer mold fits snugly inside the outer ear area. Stereo or mono selector switch with adjustable independent left and right volume controls. Holds firmly in place when turning your head and inverted flight. Includes 2 adjustable wire management clips.
If you are not yet flying with our in the ear airplane headset, you should be...
Standard.....P/N 11-16631 ..... ---

CRAZEDPILOT CP-1 PASSIVE HEADSET

The most COST EFFECTIVE yet COMFORTABLE aviation headset on the market this CRAZEDpilot CP-1 headset is worth every dime for student pilots or that spare headset you require. Fully flexible mic boom like the expensive competitors, stereo headset with integrated volume control knob. Includes quality memory foam ear seals and headpad for those longer flights. With 24dB of Passive Noise Reduction these headphones are IDENTICAL in performance to David Clark, but without the price tag. The steel construction flexible mic boom and adjustable headband will last a lifetime. The molded two-plug aviation cable will last a lifetime with its integrated strain reduction. Get your CRAZEDpilot CP-1 today, you won't regret the purchase.
Features: • Flexible mic boom • Memory foam ear seals and headpad • Stereo Headset • 24dB Passive Noise Reduction • Electret Noise Cancelling Microphone • One year warranty.

Description	Part No.	Price
CP-1 Passive Headset Dual GA Plugs	11-12918	---
CP-1 Passive Headset (Heli)	11-13683	---
Accessories		
Description	**Part No.**	**Price**
Ear Cup Inserts	11-12908	---
Gel Ear Seals	11-12909	---
Headset Headpad	11-12910	---
Mic Cover	11-12911	---
Mic Covers (4 pack)	11-12912	---

CRAZEDPILOT CP-1 ANR HEADSET

The CRAZEDpilot CP-1ANR is the most aggressively prices ACTIVE NOISE CANCELLING HEADSET on the market today. Amazing performance comparable to Bose and Lightspeed, but for a literal fraction of the price!
• Great active noise cancelling level, average 20dB • One 9 volt battery working time up to 48 hours much better than David Clark 25 hours • AUX jack for Cell phone with link cables (iPhone adapter included) • Gel ear seals and cotton cloth ear covers included for extra comfort! • When the ANR is ON, low frequency noise cancellation improves by an additional 18-24 dB • Auto Power On and Off when the unit is either unplugged or when your intercom turns on!
Standard ..... P/N 11-13315..... ---
Helicopter..... P/N 11-13684..... ---

ASA CLOTH EARSEAL COVERS FOR HS-1

Cloth earseal covers are a great way to increase the comfort of your headset.
P/N 13-18468 ..... ---

MGL AVIONICS MGL-880 HEADSET

High class anthracite look, metal frame - hand adjustable, no tools required. Very comfortable headband resulting in no pressure points due to light overall weight. Operates as mono or stereo headset with volume and balance controls and very good audio quality. Super soft gel ear seals with soft material allows for a good acoustic seal even if you are wearing glasses. Very high passive noise suppression figures over the full audio band. Filtered, noise canceling microphone. Gold plated connectors and high quality, long life cable. Reversible microphone boom. The headset features two volume control knobs - one on each earcup. **Specifications**: Extremely light and strong at only 20.5oz / 580g, Excellent passive noise reduction rating of 27dB, Clear frequency response from 20-17,000Hz, distortion free through entire rangeQuick response noise canceling filter amplified electret microphone with wind muff, Conforms to FAA TSO C57a and TSO C58a.....P/N 11-09437 ..... ---

UFLYMIKE HARMONY AVIATION KIT

The HARMONY Light is a hardwired, single-application headset designed for seamless use with a specific device or application. It delivers everything you need to turn your headphones into a reliable communication tool without the complexity of modular systems. **Cell Phone Compatibility:** • The Auxiliary Audio Jack seamlessly integrates with any device that supports external microphones, such as smartphones and tablets. • Stay Connected: Make and receive phone calls using your headset. • Never Miss a Call from ATC: Hear air traffic control (ATC) communications even during phone calls, ensuring uninterrupted situational awareness. • Reliable Wired Connection: No batteries or Bluetooth required for hassle-free use.
Bose Quietcomfort & Quietcomfort 45 Left Side 2-Plug Harmony & Headphone Combo Case..... P/N 11-20749..... ---
Bose Quietcomfort 35 Left Side 2-Plig Harmony & Headphone Combo Case ..... P/N 11-20750..... ---
Sony Wh-1000Xm5 Left Side 2-Plug Harmony & Headphone Combo Case ..... P/N 11-20751..... ---

UFLYMIKE AVIATION ADAPTERS FOR 2 - PLUG HEADSETS - XLR (5PIN)

The Aviation Plug Adapter for 2-Plug Headsets converts the dual plug 0.25" Headphone & 0.206" Microphone configuration (commonly called the "Boeing Plugs) of you headset to be used in an aircraft with a different jack style. This adapter is a connector change only and does not change impedance for matching between low and high impedance systems.....P/N 11-20752 ..... ---

UFLYMIKE AVIATION ADAPTERS FOR XLR-5 HEADSETS - 2-PLUG

The Aviation Adapter for XLR-5 Headsets converts the Single Barrel XLR-5 Plug (commonly called the "Airbus") into a different plug style. This adapter is a connector change only and does not change impedance for matching between low and high impedance systems.
P/N 11-20753 ..... ---

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LYNX HEADSETS - HELMETS

LYNX MICRO SYSTEM

The Micro System is a unique self contained intercom system which is plug and play compatible with any radio. This equipment is extremely popular for use is open cockpit aircraft and is the market leader for use in ultralight, powered parachutes, etc.

MICROSYSTEM COMPONENTS

Part No.	System Equipment	Description	Price
11-05346	Micro System Headset	Self contained intercom headset white*	---
11-09310	High Visibility Visor	For use w/Lynx helmets large	---
11-11196	High Visibility Visor	For use w/Lynx helmets standard	---
11-05364	Leather Helmet	Soft leather helmet for headset. L	---
11-05347	Headset Coup. Adap.	Connects two headsets together.	---
11-05348	Headset Switch Adap.	Switch-on a single headset.	---
11-05356	Visor Extension	Wind deflector chin guard for visor.	---
11-05358	Headset Bag	Cloth bag to protect a headset.	---
11-05359	Headset Exten. Lead	Used to extend the headset leads.	---
11-05360	Panel Exten. Lead	Extension lead with panel socket.	---
11-05361	Headset Panel Adapter	Converts lead socket into panel.	---
11-05362	Headset Lead Splitter	Used to connect several headsets together.	---
11-05365	Helmet Goggles	For use with either type of helmet.	---
11-07092	Radio Splitter + Coiled Radio Lead	Connects in-line with a headset and provides connections for an additional device.	---
11-07093	Coiled Radio Leads	Connecting different radios to portable interface equipment.	---
11-07094	Straight Radio Leads	Connecting different radios to portable interface equipment.	---
11-07096	Audio Output Lead	Connecting professional recording equipment to the Micro System	---

***See Website for other colors**

LYNX PILOT SYSTEM

The Pilot System is a range of headsets and helmets for use in light aircraft and helicopters. The main advantage of these products are that they provide an integrated headset and helmet system for use in aircraft which have standard twin jack intercom equipment already installed. Headset Colors: Black, White, Grey, Red, Pink, Blue, Yellow or Green

Part No.	System Equipment	Description	Price
11-05394	Pilot System Headset + Lead	Standard general aviation headset.	---
11-05395	Twin Jack Headset Lead	Interchangeable lead for Pilot headset.	---
11-05396	US NATO Headset Lead	Interchangeable lead for Pilot headset.	---
11-05397	UK NATO (Euro) Headset Lead	Interchangeable lead for Pilot headset.	---

Note: Pilot System uses the same helmet, helmet visor, visor extension, leather helmet, helmet goggles, helmet bag, headset bag, and double helmet bag as the Micro System. Order part numbers as shown for Micro System Components.

LYNX MICRO PILOT SYSTEMS IPHONE LEAD

The Mobile Telephone Lead (iPhone) allows Apple portable telephones to be connected to Lynx equipment The lead also works with telephones from other manufacturers.

P/N 11-14796 ..... ---

LYNX MICRO PILOT SYSTEMS NOKIA LEAD

The Mobile Telephone Lead (Nokia) allows Nokia portable telephones which have a 2.5mm hands-free socket to be connected to Lynx equipment...P/N 11-14797 ..... ---

LYNX MICRO PILOT SYSTEMS SONY LEAD

The Mobile Telephone Lead (Sony) allows Sony portable telephones to be connected to Lynx equipment The lead also works with telephones from other manufacturers.

P/N 11-14798 ..... ---

HELMET SIZES:

To obtain the correct size of helmet, use a tape measure to measure the circumference of your head just above the ears.
Small: 55-57cm (22") | Medium: 57-59cm (23") | Large: 59-61cm (23.5") | Extra Large: 61-63cm. (24.5")

Part No.	Radio Equipment	Description	Price
11-05368	Twin Jack Adapter	Converts the headset to twin jack plugs.	---
11-05369	Audio Adapter	Connects a Walkman or mobile telephone.	---
11-05371	Radio Interface unit *	Connects one or two headsets to a radio.	---
11-05378	Radio/Power Interface unit *	Powers two headsets and a radio. For Type B connections only and these radios: ICOM A3, A22, A6, A24 and ICA5, A23 with the CT-44 adapter. Vertex Standard VXA-100, 120, 150, 200, 210 with the CT-44 adapter. All other radios will require special order.	---
11-05372	Velcro Mount PTT Switch	Velcro fixing PTT Switch.	---
11-05373	Screw Mount PTT Switch	Screw fixing PTT Switch.	---
11-05374	PTT Extension Lead	Two Metre extension lead for PTT Switch.	---
11-05375	PTT Connector and Lead	Special PTT connector with two metre lead.	---
11-05376	Audio Input/ Output Lead	Connects a Walkman to an Audio Adapter or Power Interface.	---
11-05380	Power Supply Filter	Used to filter aircraft power supply.	---
11-05381	Large Power Filter	Used with very noisy power supply.	---
11-05383	Radio Power Adapter 11V13	Used to connect Icom A6/A24 radios to a Power Interface.	---
11-05384	VHF Antenna - Short Flexible	Antenna for use with airband radios.	---
11-05385	VHF Antenna - 1/4 Wave Whip	Antenna for use with airband radios.	---
11-05386	Antenna Extension Lead	Five metre extension for antenna.	---
11-05387	Adapter LA-25	Used to connect Cobra FRS and GMRS radios.	---
11-05388	Adapter LA-30	Used to connect Yaesu VXA 100 radios.	---
11-05392	Adapter CT-96	Used to connect Yaesu VXA 300/700 radios.	---

LYNX PILOT SYSTEM HTC AUTOGYRO HEADSET LEAD

Lynx Pilot System headsets and Integral helmets are filled with interchangeable leads which allow the headsets to be used in different aircraft by simply changing the lead. The HTC Autogyro Lead allows the headset to connect to the six pin intercom systems installed in some Autogyros. The in-line connector also allows the lead to separate in an accident and is in compliance with UK Civil Aviation Authority safety recommendations (AIC 312002).

Features: • For use with HTC intercom systems
• Water resistant in-line connector • Complies with CAA AIC 3/2002

P/N 11-14795 ..... ---

LYNX ACCESSORIES

Part No.	Spare Parts	Description	Price
11-05403	Ear Seals Type 1 Foam (Two)	For use with all Lynx headsets	---
11-05404	Ear Seals Type 2 Gel (Two)	For use with all Lynx headsets	---
11-05405	Microphone Wind Shield Large (37mm Ø)	Used in an open cockpit. For use with all Lynx headsets.	---
11-05406	Microphone Wind Shield Small (25mm Ø)	Used in an enclosed cockpit. For use with all Lynx headsets.	---

AV

PUSH-TO-TALK - LEATHER HELMETS

PUSH-TO-TALK SWITCHES

ECONOMY PUSH-TO-TALK SWITCH

Similar to PT-300, this top quality switch is offered at considerable savings. Features gold contacts for durability.
Fully guaranteed .....P/N 11-12100 ..... ---

PTT-400 PORTABLE PUSH-TO-TALK SWITCH

Designed so that the pilot may push downward to invoke the radio transmit function, instead of the traditional "sideways activation" of typical strap-on PTTs. Secures to the top of the vertical handle of the contol yoke with provided velcro tape. Housed at the top of a thin, 1/2" dia. cylindrical enclosure, the soft-touch red push button is rated for 50,000 failure-free operations. 5ft. coiled cable terminates with standard plug & jack. Fast and easy plug-in installation, in virtually any aircaft....P/N 11-02072 ..... ---

PILOT USA PUSH TO TALK FOR YAESU HANDHELD RADIOS

Allows the user to transmit to ATC when the red button is engaged. Can be used with or without an intercom.
P/N 11-19322 ..... ---

NAV-DATA PUSH-TO-TALK SWITCH

Push-to-talk switch with heavy duty construction and dual internal contacts. Included strap to attaches to most yoke controls.....P/N 13-06089 ..... ---

PUSH TO TALK

Push to Talk Switch Fixed Wing Airplane Aircaft - INLINE with headset.
Allows the user to transmit to ATC when the button is engaged. Can be used with or without an intercom.
The Got Your Six Aviation Push-To-Talk button can be well positioned on the yoke or stick, and is extremely convenient with it's pass-through design plugging INLINE into the mic jack of your your headset (.206" standard Mic jack). .....P/N 11-19710 ..... ---

MICROPHONES

TELEX 66T TRANSISTORIZED MICROPHONE

Dynamic, noise-cancelling, hand-held mic. Built-in amplifier is adjustable for full transmitter output. Meets specifications for aircraft and mobile applications. Impedance 50-600Ω. Wt: 9oz. Complete with 5 ft. coiled cord and hanger bracket. Also available with right-angle plug - specify model 66TRA .....P/N 66T ..... ---

TELEX 100TRA DYNAMIC MICROPHONE

Dynamic, noise-cancelling, amplified, handheld mike. Push-to-talk switch is in front. Handsome beige and black with walnut grain trim. Impedance 50-600Ω. Wt. 9 oz. Includes 5ft. coiled cord with right-angle plug and hanger bracket .....P/N 100TRA ..... ---

TELEX 38T ELECTRET MICROPHONE

A state-of-the-art high quality noise cancelling microphone designed as a direct replacement for the RS-38 series microphones. Hanger bracket not included.
P/N 38T ..... ---

TELEX 500T ELECTRET MICROPHONE

Amplified hand-held electret mike features outstanding noise cancellation. Impedance 50-600 Ω (ohms). Weight: 6.5oz. Complete with 5ft. coiled cord, plug and hanger bracket .....P/N 500T ..... ---

DAVID CLARK M-I/DC AMPLIFIED DYNAMIC HEADSET MIC

The M-1/DC Amplified Dynamic headset microphone is a noise canceling type designed to operate in place of carbon and amplified dynamic microphones.
P/N 11-09230 ..... ---

DAVID CLARK M-1A AMPLIFIED DYNAMIC HEADSET MIC

The M-1Amplified Dynamic headset microphone is a noise canceling type designed to operate in place of carbon and amplified dynamic mics..... P/N 11-09225 ..... ---

HEADSET MICROPHONE A1060 BLACK

Proper shielding improves noise immunity in aircraft with heated windshields, power inverters, and other sources of electrical noise. Fits all C40 Model Headsets (David Clark, Softcomm, Telex, etc.)
A1060 fits all C40 Models .....P/N 11-04838 ..... ---
Microphone windscreen covers all headsets...P/N 11-04840 ..... ---

LEATHER FLYING HELMETS

MODEL 711

GOATSKIN / COTTON LINING HELMET
Black (Small).....P/N 11-10505-S..... ---
Black (Medium).....P/N 11-10505-M..... ---
Black (Large).....P/N 11-10505-L..... ---
Black (X-Large).....P/N 11-10505-1..... ---
Brown (Small).....P/N 11-10510-S..... ---
Brown (Medium).....P/N 11-10510-M..... ---
Brown (Large).....P/N 11-10510-L..... ---
Brown (X-Large).....P/N 11-10510-1..... ---

MODEL 711K

COTTON KHAKI HELMET FOR DAVID CLARK HEADSETS
Brown with Leather Ear Cut-Outs
Small .....P/N 11-10525-S..... ---
Medium .....P/N 11-10525-M..... ---
Large.....P/N 11-10525-L..... ---

MODEL 711L

GOATSKIN / FLEECE LINED FOR DAVID CLARK HEADSETS
Black (Small).....P/N 11-10515-S..... ---
Black (Medium).....P/N 11-10515-M..... ---
Black (Large).....P/N 11-10515-L..... ---
Black (X-Large).....P/N 11-10515-1..... ---
Brown (Small).....P/N 11-10520-S..... ---
Brown (Medium).....P/N 11-10520-M..... ---
Brown (Large).....P/N 11-10520-L..... ---
Brown (X-Large).....P/N 11-10520-1..... ---

MODEL 711M

MESH / UNLINED WITH LEATHER TRIM
Small .....P/N 11-10555-S..... ---
Medium .....P/N 11-10555-M..... ---
Large .....P/N 11-10555-L..... ---
X-Large .....P/N 11-10555-XL..... ---

MODEL 712

GOATSKIN / COTTON LINING
Black (Small).....P/N 11-10530-S..... ---
Black (Medium).....P/N 11-10530-M..... ---
Black (Large).....P/N 11-10530-L..... ---
Black (X-Large).....P/N 11-10530-1..... ---
Brown (Small).....P/N 11-10535-S..... ---
Brown (Medium).....P/N 11-10535-M..... ---
Brown (Large).....P/N 11-10535-L..... ---
Brown (X-Large).....P/N 11-10535-1..... ---

MODEL 712C

TRADITIONAL COTTON KHAKI FLYING HELMET
Small .....P/N 11-10550-S..... ---
Medium .....P/N 11-10550-M..... ---
Large.....P/N 11-10550-L..... ---

MODEL 712L

GOAT SKIN / FLEECE LINING FLYING HELMET
Black (Small).....P/N 11-10540-S..... ---
Black (Medium).....P/N 11-10540-M..... ---
Black (Large).....P/N 11-10540-L..... ---
Black (X-Large).....P/N 11-10540-1..... ---
Brown (Small).....P/N 11-10545-S..... ---
Brown (Medium).....P/N 11-10545-M..... ---
Brown (Large).....P/N 11-10545-L..... ---
Brown (X-Large).....P/N 11-10545-1..... ---

Note: Specify size by completing part no. with -S, -M, -L, or -1 for XL. Small (19"-20") Med.(21"-22") Large(23"-24") XL(25"-26")

MIC/BOOM KITS FOR AVIATION HELMETS

Now available for aviation helmets the David Clark patented combination flex/wire boom allow for easy, perfect microphone positioning. Each kit is complete with attachment assembly, microphone & cover, and boom with 16" cord for installation.
M-7A mic and flex/boom ass'y Kit for Aviation helmets (High impedance / Civilian radio systems. Model 40688G-24....P/N 11-00866 ..... ---

CALL FOR SPECIAL PRICES!

DAVID CLARK HEADSET ACCESSORIES

Description	Part No	Price
Comfort covers – David Clark Style **(sold as a pair)**	11-04793	---
Mic Muff -Protects mic on all David Clark and standard size headset mics. This is not a foam muff.	11-04788	---
Gel Earseals - Provide optimum comfort and fit all David Clark Headsets.	11-04820	---
David Clark H10 Comfort Gel Undercut Ear Seals	11-01782	---
Foam-Filled Ear Cushions - Soft and durable covers with an all polyurethane core. Fits all David Clark headsets.	11-04787	---
Foam Headband - A light, foam filled headband which snaps on all David Clark Headsets for great comfort.	11-04791	---
H20-10 Gel Ear Seals	11-01828	---
Headset Bag- Nylon Carry bag, Black on Black.	11-00642	---
DC M-4 Mic Muff	11-04819	---
DC Mic Muff - Fits standard electret mic. Foam mic muff w/O-ring.	11-09201	---
Pro X Ear Seals	11-12457	---
Mic Muff M-7 - Designed to operate in place of carbon and amplified dynamic microphones. It will not operate in circuits that do not supply a DC bias voltage.	11-08282	---
Low-Hi Impedance Adapter	11-08283	---
Stop Gap - These eyeglass adapters place a soft coupler between the side of the head and the ear seal to prevent any noise leak and assure a comfortable fit.	11-04785	---
X11 Microphone	11-09263	---
40998G-05 ADAPTER CORD - Designed for wiring into existing avionics built-in intercoms, radios, etc.	11-05542	---
40998G-03 ADAPTER CORD - Optional adapter cord allowing use of the X11P in aircraft already equipped with David Clark ENC "XP" Series panel mount module.	11-05548	---
Head Pad Cover	11-04792	---
Boom Guide Kit Standard Mount	11-12490	---
Dome Filter	11-12493	---
Filter	11-12496	---
Sheepskin Headpad	11-12497	---

LYNX BOSE LEMO HEADSET CONVERTER

This Lynx Avionics Headset Converter is for use with Bose or Lightspeed headsets fitted with Lemo panel connectors. The Headset Converter (Bose Lemo) is backwards compatible with all Lynx products and allows Bose or Lightspeed headsets to connect to the Lynx intercom systems installed in many aircraft .....P/N 11-13799 ..... ---

LYNX MICRO SYSTEM BOSE LEMO HEADSET CONVERTER

For use with helicopter headsets or helmets fitted with a UK NATO jack plug and allows the headset or helmet to connect to a lynx radio Interface
P/N 11-13666 ..... ---

AVIATION HEADSET MICROPHONE COVER

Aviation mic cover that fits over the foam of most aviation headsets. I created it because the foam that usually covers these mic's are not very sanitary, in that it's not easily cleanable. With these you can wipe them down or even take them off, clean with soap and water and put them back on. Will fit over most aviation headsets but optimized for David Clark and Bose. P/N 11-19696 ..... ---

DAVID CLARK HEADSET HANGER

The 43200G-01 Headset Hanger is the perfect NFPA-compliant headset restraint for fire apparatus, EMS, and rescue vehicles. Manufactured from heavy duty, transportation-grade rubber, it is not affected by hot of cold temperatures, UV rays or corrosive marine environments. An integrated quick-release strap completes this unique, simple and effective solution for any style David Clark noise-attenuating headset .....P/N

STRAIGHT CORD (5 FT) WITH PJ-068 & PJ-05 40133G-04

Increases the versatility of the H10-60 headset. Plugs into the dome connector.
P/N 11-05948 ..... ---

COIL CORD (5 FOOT) WITH PJ-068 & PJ-055 PLUGS 40133G-05

Increases the versatility of the H10-60 headset. Plugs into the dome connector.
P/N 11-05949 ..... ---

18 CONDUCTOR COIL CORD

This aircraft grade 18 conductor coil cord is tested to the latest FAA Flame standards (14 CFR Part 25.869 (a)(4) Amdt 25-113 Appendix F Part I (a)(3)). It features 22 AWG conductors of different colors for easy identification. It is designed to extend and contract as needed to allow full range movement of the control wheel. P/N 11-20072 ..... ---

GA TO LEMO ADAPTER

Got Your Six GA to Lemo Adapter for David Clark Bose and Lightspeed. Adapts your GA fixed wing dual-plug headset to a LEMO connector for General Aviation Airplanes.
P/N 11-19706 ..... ---

LEMO TO GA ADAPTER

LEMO to GA Adapter For David Clark Bose X and Lightspeed by Got Your Six Aviation. Adapts your non-powered (passive) LEMO headset to a GA fixed wing dual-plug connector for General Aviation Airplanes. Common Names: Lemo to GA Adpater Lemo to Twin Plug Adapter Lemo to PJ Adaptor 6-Pin to Twin Plug Adapter 6-Pin to GA Adapter 6-Pin to PJ Adapter P/N 11-19708 ..... ---

COIL CORD (5 FOOT) WITH U-174/U PLUG 40133G-06

Increases the versatility of the H10-60 headset. Plugs into the dome connector.
P/N 11-05950 ..... ---

PLUG ADAPTER 18253G-05

Converts U-174/U or U-93A/U to M642/5-1 (PJ068) and M642/4 (PJ055). Also converts the Helicopter Single Plug to a Dual Plug configuration for Fixed Wing flying. General Aviation applications only.....P/N 11-05956 .....

PLUG ADAPTER 18253G-06

Converts PJ-068 & PJ-055 to U-174/U. Also converts the Fixed Wing Dual Plug configuration to a Single Plug for Helicopter flying. General Aviation Applications only.....P/N 11-05957 ..... ---

HEADSET AUDIO RECORDING CABLE FOR GOPRO HERO 2 CAMERA

Allows you to interface your Digital Audio/Video Recorder with the aircraft intercom system in your helicopter! Also works great with the ContourHD line of cameras, or any other hand held camera or recording device utilizing the standard 3 conductor 3.5mm cables.....P/N 11-13682 .....

BLUETOOTH HEADSET INTERFACE

Bluetooth interface allows you to WIRELESSLY hear "TERRAIN" warnings or "TRAFFIC" notices, right in your headset - without the risk or inconvenience of wires! .....P/N 11-14137 .....

GA TO HELI HEADSET ADAPTER CABLE

Adapts your GA fixed wing dual-plug headset to a helicopter single-plug connector for General Aviation Civilian Helicopters (not "Military" headsets, that would require an Impedance matching device, the PA-87)...P/N 11-14138 .....

AV

HEADSET ADAPTERS

PILOT USA SMARTPHONE DIGITAL AUDIO ADAPTER

Turn your Smartphone or Tablet (iPhone, iPad, Android, Windows Phone, etc.) into a Cockpit Voice Recorder! You'll be able to record audio through your aviation headset. Your Smartphone will be able to record all transmissions through the Intercom systems including in-cabin and ATC transmissions. Great for CFI's and Students to review radio communication skills after the flight! .....P/N 11-10531 ..... ---

ANR HEADSET RETROFIT KIT

The ANR Adapter is a product that will transform a current aviation headset into a high-tech active noise reduction unit. The ANR Adapter comes as a kit and includes a pair of inserts that fit more than 20 different headset models. Installation requires fitting the inserts, drilling a small hole in one earcup for the power receptacle, and soldering the original cable leads to the kit replacement parts. (uses two 9-volt batteries). IMPORTANT: It is mandatory that you use "silicone gel" type earseals. The original earseals (dry or liquid filled) are not as airtight as gel seals, and in addition do not dampen sound and vibration as effectively. The result is that the ANR units will greatly underperform (20-50%) and will be more likely to malfunction.
David Clark type .....P/N 11-11955 ..... ---

AMP CABLE (AUDIO+MIC+POWER)

A standard ANR upgrade kit comes with a 6' long addon power cable which tie-wraps to your original audio cable, and it requires that you drill a 1/4" hole in the left earcup (next to where the main cable enters the cup).The AMP cable replaces your original cable and has the DC power wires, audio wires and mic wires all in 1 cable. The result is more esthetically pleasing and no additional hole is required in the left earcup.
P/N 11-03012 ..... ---

LYNX AVIONICS HEADSET CONVERTERS

- Connects twin jack headset or helmet
- Works with speakers from 8 to 600 Ohms
- Accepts dynamic, electret or carbon microphones
- ANR power to microphone jack tip
- Headset volume control
- Maintains selective PTT operation and muting
- Water resistant bayonet locking connector
- Supplied with fixing kit

Lynx Twin Jack Headset Converter .....P/N 11-09306 ..... ---
Lynx Single Jack Headset Converter.....P/N 11-09307 ..... ---
Lynx US NATO Jack Headset Converter....P/N 11-09308 ..... ---
Lynx UK NATO Jack Headset Converter....P/N 11-09309 ..... ---

LEATHER EAR CUPS FOR HEADSETS

The AVCOMM deluxe leather ear seals offer any headset comfort that is unsurpassed! They fit any standard GA headset and make for a fantastic upgrade. Toss the old hard foam ones or heavy gel units and step up to hours of flying comfort.....P/N 11-15033 ..... ---

CRAZEDPILOT LEATHERETTE EAR SEALS

Looking for a luxurious leather feel on your David Clark, CRAZEDpilot, or any other similarly styled headset? The CRAZEDpilot Leatherette Ear Seals are a lovely mix of class and comfort for your David Clark, CRAZEDpilot, PilotUSA, Flightcom, and 99% of all 'ear shell' style airplane and helicopter headsets. Sold in Pairs..... P/N 11-14953 ..... ---

LEATHERETTE EAR SEAL REPLACEMENTS

The Got Your Six Leatherette Ear Seals are a lovely mix of class and comfort for your David Clark, CRAZEDpilot, PilotUSA, Flightcom, and 99% of all 'ear shell' style airplane and helicopter headsets. They feel smooth and comfortable in the summer, and warm in the winter! CRAZEDpilot Leatherette Seals fit David Clark H10-20 H10-13.4 H10-30 H10-40 H10-60 H10-76 H10-13S and all other models that match this shape and size. (does not include H20-10) The Got Your Six Leatherette Ear Seals drastically REDUCE pilot fatigue and IMPROVE the fit of your aviation headset Sold in Pairs .....P/N 11-19707 ..... ---

ANR RETROFIT KIT REPLACEMENT CROSSOVER CABLE

Crossover cable replacement cable between ear cups. HA-010 4 conductor cable.. P/N 11-15415 ..... ---

PILOT HEADSET EAR COVERS

Prevent that sweaty-sticky feeling! Great for the soft comfortable fit you want! They are perfect for loaner headsets - just wash em anytime! They fit David Clark and many other similarly sized headset shells. Packaged in pairs. Made of soft comfortable knit fabric in Black to suit any headset color. .....P/N 11-12191 ..... ---

THE MUSE PERSONAL MUSIC DEVICE

PS Engineering, Inc's The Muse®, as simple and low cost way of interfacing your favorite entertainment device into your aviation headset. The Muse® is a miniature Personal Music Device (PMD) that allows connection of an entertainment source directly to your headset without complicated wiring or permanent installation--no rocket science here. About the size of a 9-Volt battery, The Muse® mates with stereo or mono headsets and has no effect on radio transmissions or intercom functions ...P/N 11-09045 ..... ---

IPOD / MP3 MUSIC ADAPTER

This adapter works with your existing intercom by pumping your music into any available mic jack, allowing it to be distributed through the intercom to everyone wearing a headset. Plug one end into the aircraft's mic jack and the other into your media player's headphone jack. • Compatible with ipod, iphone, mp3, CD, laptops, and most other portable media players • Music in your headset without costly upgrades • Listen to music through the aircraft's speaker during pre-flight • Plugs into standard mic jack • Just Plug and Play! No more wearing uncomfortable in-ear headphones under your aviation headset. No need for an expensive new intercom or new headset. This will work in any intercom system with an available mic jack. Maintain the comfort and quiet of you current headset; just add your favorite music! Also works great in many airliners.....P/N 11-07541 ..... ---

CLOUD9 HEADSET CONTROLLER HOLDER

Features: • 3D printed in Black Polycarbonate able to withstand high ambient heat in a hot cockpit when aircraft parked on the ramp. Polycarbonate can withstand ambient temps up to 120C (248° Fahrenheit). This is NOT printed in a low temp and low cost PETG as seen with other similar products. • Can be configured to mount to the aircraft window using the included suction cups. • Can be configured to be hard mounted to an instrument panel or when using the included clamping plate be mounted to soft aircraft interior panels • Can be mounted to existing Cessna Ashtray Frames in a piggyback fashion. • Integrated mounting slot for clip or strap commonly used when mounting in a hanging fashion behind the pilots head like often used in Helicopters and some regional jets.
Bose A20 .....P/N 13-24566 ..... ---
Lightspeed Zulu & Sierra .....P/N 13-24568 ..... ---
Bose A30 .....P/N 13-24633 ..... ---
Bose Proflight .....P/N 13-24634 ..... ---
David Clark DC One .....P/N 13-24635 ..... ---

PILOT 24V TO 12V CONVERTER / STEP DOWN TRANSFORMER

24v to 12v Converter / Step-down Transformer. The perfect low-cost 24v to 12v transformer for your 24 volt system aircraft. Run ANY device up to 5 AMPS total current draw. Use this in your experimental to drive a 12V cigarette lighter,12v iPad, etc. Fits in the palm of your hand - it only weights 2 oz.! Rated at 60 Watts, this converter is EASY to wire - Just provide 24volts positive to the RED line, Ground both black wires, and 12 Volts will flow OUT of the YELLOW wire. Simple as that! The least expensive 24v converter on the market! .....P/N 11-12192 ..... ---

MICROPHONE WINDSCREENS

PA-10M - Flightcom: 4DX, 5DX. Skycom H-40A, h-80A. Sigtronics: S-68, S-20. Peltor LE Sport, 7004, 7104. Telex: Stratus, Airman 750, ANR 150. David Clark: H 10-40, H-10-80, 10-20, 10-21, 10-26, 10-6-, 13.4.Pilot Hdsts: P-51, 11-40, all ANRs..... P/N 11-05808 ..... ---

M-87 - Headsets using M-87 Microphones (usually the mics in helmets such as Gentex or Gallet)

FABRIC WINDSCREEN MIC COVER / FILTER / MUFF

Keep your headset mic clean! CRAZEDpilot FABRIC Mic Muff Covers fit almost every microphone out there including David Clark M7 and M4, Lightspeed, Bose, Telex, and everything else we tried. Carefully grab the headset mic muff cover on both sides and pull it down gently into place. Headset mic covers for David Clark, Bose, Lightspeed, etc should be replaced annually for sanitary purposes, plus they help maintain the microphone quality - if the mic cover fails, moisture and dirt can then reach your microphone, which is an expensive part.....P/N 11-19709 ..... ---

HEADSET UPGRADE KITS

For considerably less than the cost of a new headset, you can upgrade the headset you already own to improve comfort and performance. You'll experience improved intelligibility and transmission clarity, and you'll enjoy pain-free, cool, dry ears. Comes with: A-SoftTop® Headset Cushion, B-SoftSeal® Ear Cushions, C-SoftSkin® Ear Seal Covers, D-HushKit® Passive Ear Cup Noise Attenuation Kit, & E-MicMuff® Microphone Cover.
David Clark Upgrade Kit .....P/N 11-07808 ..... ---
Bose® Headset Upgrade Kit .....P/N 11-06309 ..... ---

AV

HEADSET ACCESSORIES

HEADSET & HELMET ACCESSORIES BY OREGON AERO

Individual Oregon Aero® Upgrade components are available for the Headset & Helmet models listed.

OREGON AERO® SOFTTOP® HEADSET CUSHIONS

Eliminates top-of-head pressure. 100% plush sheepskin wool. Keeps head cool or warm. Moisture-proof, self-wicking action. Flexible leather backing. Customized mount of either rubber extrusion or nylon with hook/loop wrap.

10006 SoftTop® Headset Cushion for David Clark and David Clark Clones ..... P/N 11-10905 ..... ---
10006D SoftTop® Headset Cushion with D ring for David Clark and David Clark Clones..... P/N 11-10906 ..... ---
10020 SoftTop® Headset Cushion for Bose® Aviation Headset X™* and Bose® A20™ ..... P/N 11-08679 ..... ---
10016 SoftTop® Headset Cushion for FlightCom Denali, LightSpeed QFR, Sennheiser 100/300, Telex Air 3000,3100,3500,4000,4100,4105, ANR 150, Echelon 100/150, ANR1-D,MRB-600
P/N 11-10915 ..... ---
10017 SoftTop® Headset Cushion for Peltor 7000 series
P/N 11-10903 ..... ---
10004 SoftTop® Headset Cushion for Telex Airman 750
P/N 11-10902 ..... ---

OREGON AERO® SOFTSEAL® EAR CUSHIONS -

Conform to your head. 200-300% more volume for total comfort. Smooth, soft, washable synthetic leather cover over temperature and pressure sensitive visco-elastic foam core. Great with eye-wear or earrings. Eliminate ear pressure. Attach with flange, adhesive ring or snap-on mount, depending on headset type.

20005 SoftSeal® Ear Cushions (1 1/8") for David Clark and David Clark Clones ..... P/N 11-10917 ..... ---
20034 SoftSeal® Ear Cushions for ANR David Clark and David Clark Clones other than X11 ..... P/N 11-10920 ..... ---
20007 SoftSeal® Ear Cushions for Bose® Aviation Headset X™* and Bose® A20™ ..... P/N 11-08680 ..... ---
20020 SoftSeal® Ear Cushions for Peltor 7000 Series, LYNX, and Sennheiser HMEC 200/222 Headsets ..... P/N 11-10921 ..... ---
20002 SoftSeal® Ear Cushions (¾") for SPH-4B®*, SPH-5®*
P/N 11-10928 ..... ---
20050 SoftSeal® Ear Cushions (¾") For Plastic Ear Cups In SPH-4®* and HGU (Sonex) Helmets ..... P/N 11-08681 ..... ---

OREGON AERO® SOFTSKIN® EAR SEAL COVERS -

Keep your ears even drier and cooler and add to product life by slipping SoftSkin® Ear Seal Covers over SoftSeal® Ear Cushions. Self-wicking reduces perspiration buildup. Especially helpful in hot, humid climates. They fit loose, not tight like a drum (this is important because tight cloth covers produce pressure on the ear, causing pain).

29118 SoftSkin® Ear Seal Covers (1 1/8") for David Clark and David Clark Clones..... P/N 11-10930 ..... ---
29034 SoftSkin® Ear Seal Covers for 3/4" SoftSeal® Ear Cushions
P/N 11-10929 ..... ---

OREGON AERO® HUSHKIT® PASSIVE EAR CUP NOISE ATTENUATION KIT -

Testing shows the HushKit® Passive Ear Cup Noise Attenuation Kit performs better than ANR headsets in the 700-7000Hz mid-range where hearing loss Dramatically improves noise attenuation and intelligibility.

92005 HushKit® Passive Ear Cup Noise Attenuation Kit for David Clark and David Clark Clones ..... P/N 11-10934 ..... ---
92056 HushKit® Passive Ear Cup Noise Attenuation Kit for HGU-56 Helmets ..... P/N 11-06312 ..... ---
92050 HushKit® Passive Ear Cup Noise Attenuation Kit for SPH-4®, SPH-4B® , SPH-5® or HGU (Sonex) helmets.....P/N 11-06311 .....

OREGON AERO® SOFTSEAL/HUSHKIT® COMBO -

An ear seal and insulation kit in one — one giant shock absorber. Replaces triangular leather earpad or upgrades plastic Ear Cup. Eliminates pain.

28734 SoftSeal/HushKit® Combo for Telex 750 and 850 (¾" thick)
P/N 11-10918 ..... ---
28034 SoftSeal/HushKit® Combo for HGU Civilian Helmets (¾" thick)
P/N 11-08682 ..... ---
28118 SoftSeal/HushKit® Combo for HGU Civilian Helmets
(1 1/8" thick) ..... P/N 11-08684 ..... ---

HEADSET MICMUFF™ MICROPHONE COVERS

Eliminates cockpit noise from radios and intercom. Greatly improves intelligibility. MicMuff™ functions as an acoustic baffle and must be used on all headsets installed in the communications system. Adaptable to all mics, electret or dynamic. Doesn't blow away.

Amplified Dynamic MicMuff Mic Cover..... P/N 11-10937 ..... ---
Electret MicMuff Mic Cover ..... P/N 11-10938 ..... ---
Military Dynamic (M-87) MicMuff Mic Cover.... P/N 11-10939 ..... ---

EVERY HEADSET MICROPHONE USED IN AN INTERCOM SYSTEM MUST HAVE THE MICMUFF INSTALLED IN ORDER FOR THE MICMUFF TO BE EFFECTIVE! THE ONLY EXCEPTION IS PUSH-TO-TALK INTERCOM SYSTEMS.

OREGON AERO® COMPLETE HEADSET UPGRADE KITS

The Worlds Greatest Headset Is the One You Already Own!® With an Oregon Aero Upgrade!®

For best results and best value, we recommend the complete Headset Upgrade Kit which includes all necessary components custom-designed for these headset types.

FOR BOSE® AVIATION HEADSET X™* & BOSE® A20™

83006BX -
Includes: SoftSkin® Ear Seal Covers, MicMuff® Microphone Cover, SoftTop® Headset Cushion, SoftSeal® Ear Cushions..... P/N 11-06309 .....

MILITARY HEADSET UPGRADE KIT FOR DAVID CLARK TYPE HEADSETS -

Electret mic: 83006E.
Dynamic Military Mic: #83006DM
Includes: SoftSkin® Ear Seal Covers, MicMuff® Microphone Cover, HushKit® Passive Ear Cup Noise Attenuation Kit, SoftSeal® Ear Cushions, SoftTop® Ear Cushions ..... P/N 11-06310 ..... ---

J-HOOK HEADSET HANGER

The J-Hook Aviation Headset Hanger is designed to be installed on one of the tube crossmembers in the cockpit of aircraft with exposed tubing upon which to hang your headsets when not in flight. These types of aircraft include Huskies, Cubs, Citabrias, etc. Machined from 6061-T6 aluminum with stainless steel hardware for a lifetime of service. Mounts on 3/4" or 7/8" tubing

J-Hook Headset Hanger 3/4"..... P/N 11-02409 ..... ---
J-Hook Headset Hanger 7/8"..... P/N 11-02410 ..... ---

HEADSET HANGER

• Hang your headset out of the way in a handy fold down bracket • Secure headset with hold down hook & loop strap • Headset Hanger - folds neatly out of the way when not in use • Strong extruded aluminum - black finish • Mount with 2 screws • Made in USA ..... P/N 11-08615 ..... ---

UNIVERSAL AVIATION HEADSET HANGAR

Sometimes it is the simple things that provide the most utility. This inexpensive product is designed to provide a safe secure storage solution for aviation headsets inside the aircraft. No longer will you have to throw your expensive headset on the glare shield, the seat, or hang it on the control wheels. This easy to install device gets the headset up and out of the way so that it is easier to get into and out of the cockpit without fighting loose headsets.

Black..... P/N 11-09312 ..... ---
Gray..... P/N 11-14417 ..... ---
Tan..... P/N 11-14419 ..... ---
Hangar Mounting Kit..... P/N 11-14421 ..... ---
1" Mounting Screw ..... P/N 11-14423 ..... ---

ANR HEADSET MOUNTS

"Magic Hand" 2-Piece Magnetic "Channel-Lock" technology to almost invisibly hold your ANR Handset exactly where you want it- even in turbulence-but comes off with a gentle tug toward you when desired. Includes access to battery compartment and other handset points.

For Bose A20 - Left ..... P/N 13-24056 ..... ---
For Bose A20 - Right..... P/N 13-24057 ..... ---
For Lightspeed Zulu - Left ..... P/N 13-24058 ..... ---
For Lightspeed Zulu - Right..... P/N 13-24059 ..... ---

HEADSET CUSHION

For headsets with single 5/8" wide headband springs (Aviall, David Clark, etc.) and Telex ProAir 2000E and ANR-type headsets. Eliminates top-of-the-head pressure..... P/N 11-02858 ..... ---

ASA HEADSET HEADPAD

Soft, padded, microfiber fleece cover is a great way to increase comfort and bring new life to an old headset. The Headset Head Pad fits ASA headsets as well as most other models. It is designed to fit spring steel headbands up to 5/8" wide. Instructions are included ..... P/N 13-16431 ..... ---

LIQUID FOAM EAR SEALS

Replacement ear seals for DC40 style headsets. Great comfortable replacement ear seals with foam and liquid interior..... P/N 11-02737 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PLUGS & PANEL JACKS

PLUGS - Made to specification MIL-P-642A. Molded, cord mounting type. Screw-on shell.

Headphone Stereo Plug 3-Circuit SWC 260 Takes SWL-12B mating jack ..... P/N 11-08308 ..... ---

Microphone Plug, 3-Circuit PJ-068 Takes JJ-033 mating jack P/N 11-03918 ..... ---

S267 .206 Mic Plug ..... P/N 11-19440 ..... ---

11-05995

PANEL JACKS - Contact springs are of special alloys for long life. Insulation is high dielectric strength phenolic. Tinned terminal lugs for easy soldering. Short frame. Mounts by 3/8-32 threaded bushing and nut. Open circuit until plug inserted.

Stereo Headphone Jack, 3-Circuit SWC-12B ... P/N 11-04936 ..... ---

Mono Headphone Jack, 2-Circuit JJ-034 .... P/N 11-03907 ..... ---

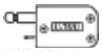
Microphone Jack, 3-Circuit JJ-033 ..... P/N 11-05995 ..... ---

Insulated Flat Washer (SWC S1028) Tan ... P/N 04-00975 ..... --- **ea.**

Insulated Flat Washer (SWC S1029) Black ... P/N 04-00976 ..... --- **ea.**

Mini Stereo Jack 1/8" diameter ..... P/N 11-09332 ..... ---

U-172/U MICROPHONE JACK - (NSN 5935-00-665-7599), Mates w/U-173/U, PJ-292, or MP-101. 2-conductor jack w/nickel-plated beryllium copper contacts assembled into nylon body ..... P/N 11-00697 ..... ---



U-75/U PLUG - (MIL-C-22442/5-1) Mates with U-61/U. P/N 11-00698 ..... ---

2-PIN MICROPHONE PLUG

(U-173/U, MP-101) (NSN 5935-00-888-5351) Mates with U-172/U, U-179/U, MP-101, & JJ-055. Nickel-plated beryllium copper contacts assemble into nylon body. P/N 11-00701 ..... ---

U174/U PLUG TP-101

Mates with NEXUS Series TJ-120and TJ-102 jacks and jack TJ-101. One piece monel contacts integrally molded into glass filled nylon plastic ..... P/N 11-09335 ..... ---

FRONT MOUNT JACK TJT-120

Mates with NEXUS Series TP-120 plugs and plugs TP-101 and TP-102. Same material and construction as the TJ-120. Jack housing is threaded for front mounting by screwing into threaded mounting hole or by inserting into front of panel and securing with nut and lockwasher from behind ..... P/N 11-09334 ..... ---

HEADSET EXTENSIONS

HEADPHONE EXTENSION

This heavy duty extension allows a .25" phone jack to be extended by 5ft. Great for customizing an aircraft with rear passenger headphone (listen only) capabilities. P/N 11-10620 ..... ---

MICROPHONE EXTENSION

This heavy duty extension allows a .206" mic jack to be extended by 5ft. Great for customizing an aircraft with rear passenger microphone jacks. ... P/N 11-10625 ..... ---

HELICOPTER HEADSET EXTENSION

Extends a headset that uses a U-174/U, U-93A/U or equivalent plug. 5 ft. in length ..... P/N 11-00688 .....

"Y" ADAPTERS

DIGITAL AUDIO RECORDER ADAPTER FOR GA HEADSETS

This product allows you to interface your Digital Audio/Video Recorder with the aircraft intercom system. Great for creating your own aerial videos without excess cabin noise. Works with devices that use a 3.5mm Stereo External Mic Input like GoPro HD Video Cameras and Digital Voice Recorders ..... P/N 11-10486 ..... ---

24 CONDUCTOR COIL CORD

This coil cord incorporates 24 individual 22-gauge wires, which is the minimum gauge required to connect typical PTT, Autopilot Disconnect, Map Light, Trim and other control wheel-mounted switches. The coiled section of the cord has a retracted length of 6 inches and a generous 18 inches of free length on either end, allowing electrical components to be connected without splicing additional wire ..... P/N 11-09937 ..... ---

CX-2556/U CABLE (U-229/U TO U-94A/U CONNECTOR)

4 foot extension cable. The U-229/U is the military standard audio connector. Has a U-94A/U connector on the other end with a push to talk switch built in. P/N 11-09134 ..... ---

AIRGIZMOS WIRING REPAIR KIT FOR BOSE X AVIATION HEADSET

XA10 Wiring Repair Kit for Bose® XA10 Aviation Headset will provide you with two new cables from the control module to refurbish your headset. ..... P/N 11-20396 ..... ---

BOSE A20 (6-PIN) HEADSET TO GA ADAPTER

Model: PA-89/A20. Converts your 6-pin connector to a dual GA plug. Adapter measures approximately 21"

P/N 11-09422 ..... ---

BOSE A20 (6-PIN) HEADSET TO HELICOPTER ADAPTER

Model: PA-89H/A20 Converts your 6-pin connector to a single helicopter plug. Adapter measures approximately 21".

P/N 11-09423 ..... ---

NFLIGHTCAM HELICOPTER TO GA ADAPTER 602

P/N 11-14809 ..... ---

NFLIGHTCAM DUAL HELICOPTER MIL ADAPTER 611

P/N 11-14810 ..... ---

GOT YOUR SIX BLUETOOTH HEADSET INTERFACE HELICOPTER

Specifications: • Internal battery runs 4-6 hours between charges • Easily charge (even during operation) via included 12v USB adapter • Pairs easily to any Bluetooth capable device • Use your favorite GPS or Navigation software • Audio priority give to ATC/Intercom (Bluetooth mutes slightly) ..... P/N 11-19704 ..... ---

.25" PLUG Y ADAPTER

This adapter converts a headset w/ dual .206 mic & .25" phone plugs into one plug (.25") headset. Length: 9"

P/N 11-00685 ..... ---

STANDARD (MIC/PHONE) TO HELICOPTER ADAPTER

This adapter converts a G.A. headset that has both mic and phone plug into one that uses a helicopter (U-174U, U-93A/U or equiv.) plug. Length: 9"

P/N 11-10630 ..... ---

HELICOPTER TO STANDARD (MIC/PHONE) ADAPTER

This adapter converts a helicopter (U-174U or U-93A/U) headset that has one plug into a G.A. headset that has both mic and phone plug.

Length: 9" ..... P/N 11-10650 ..... ---

SPECIALTY ADAPTERS/ IMPEDANCE CONVERTERS

GENERAL AVIATION MUSIC PLAYER ADAPTER

This product allows you to input a music device (iPod, MP3 player, CD player, Garmin with XM radio, etc.) directly in to your GA (Dual plug) headset. This will allow music to be heard only through the individual headset it is connected to rather than through the entire intercom system. ..... P/N 11-00694 ..... ---

LOW TO HIGH IMPEDANCE ADAPTER

This adapter converts a low impedance mic & military headset into higher impedance for use in general aviation aircraft. Standard Version ..... P/N 11-10645 ..... ---

CRAZED PILOT MILITARY HELICOPTER IMPEDANCE CONVERTER ADAPTER LOW (MIL) TO HI (GA) AIRCRAFT

This adapter converts a low impedance Military headset into high impedance for use in General Aviation Civilian Helicopter.

P/N 11-16635 ..... ---

CRAZED PILOT MILITARY IMPEDANCE CONVERTER ADAPTER LOW (MIL) TO HI (GA) AIRCRAFT

This adapter converts a low impedance Military headset into high impedance for use in general aviation Civilian fixed wing aircraft.

P/N 11-16634 ..... ---

AIRGIZMOS REPAIR KIT FOR BOSE X AVIATION HEADSET HR01

XA10 Headset Repair Kit for Bose® XA10 Aviation Headset will provide you with 2 replacement yolks, hardware and Torx screwdriver to complete the replacement process..... P/N 11-20397 ..... ---

JACK HACK HEADPHONE JACK AVIONICS TOOL

Used to prevent headphone jacks from spinning while you tighten the nut—conveniently without the need to reach behind the panel to hold the back side. The Jack Hack includes two expanding post tools: one for standard 0.25 (¼ inch) diameter jack used for stereo GA headphones and one for the smaller (0.205 inch) jack used for the PTT connection. P/N 11-20399 .....

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JACK HOUSINGS AND MOUNTS

MIC & PHONE JACK HOUSINGS

SINGLE HOLE BLACK ALUMINUM HOUSING
Single-hole aluminum housing for single cord headset jacks (Nexus Jack TJT-120).

Description	Part No.	Price
Single Hole Black	11-09989	---
Single Hole Beige	11-09990	---
Single Hole Aluminum	11-09991	---

SINGLE HOLE MIC & PHONE JACK HOUSING - HOUSING
(1) hole surface mounted. For mic or phone jack. Hole diameter .375 with key. Mount with 4 small screws on outer flang.
P/N 11-10747 ..... ---

2 HOLE SURFACE MOUNTED MIC & PHONE JACK HOUSING
Mounts flush to any flat surface. Heat-treated aluminum with a powder coat finish. Jacks not included. (See electrical section).

Description	Part No.	Price
Surface Mount, Black	10-01595	---
Surface Mount, Beige	11-01120	---
Surface Mount, Aluminum	11-01130	---

TWO HOLE ALUMINUM HOUSING
Two-hole aluminum housing (no paint) for single cord headset jacks / Nexus Jack TJT-120.

Description	Part No.	Price
Aluminum no Paint	11-09994	---
Black	11-09992	---
Two Hole Aluminum	11-09993	---

2 HOLE RECESSED MIC & PHONE JACK HOUSINGS - Powder coat finish. Comes with a clamp to hold housing securely in place. Jacks not included. Size: 3.0" x 3.75" x 1".

Description	Part No.	Price
Recessed Mount, Black	11-01140	---
Recessed Flush Mount, Beige	11-01150	---
Recessed Flush Mount, Aluminum	11-01160	---

4 HOLE SURFACE MOUNTED MIC & PHONE JACK HOUSING - If panel space is scarce or you'd prefer to locate your headphone jacks in a more convenient spot, this housing is perfect. Mounts flush to any flat surface. Heat-treated aluminum with a powder coat finish. Jacks not included. (See electrical section). **Housing only!**

Description	Part No.	Price
Black wrinkle finish	11-01195	---
Tan wrinkle finish (Pictured)	11-00365	---
Aluminum (unpainted with holes)	11-00366	---
Aluminum (unpainted NO holes)	11-00367	---

4 HOLE RECESSED MIC & PHONE JACK HOUSINGS - Modified to allow plugs to enter from the opposite side, being recessed they are out of the way. When jacks are plugged in they are flush with the edge of the housing. Made of aluminum, with a powder coat finish. Comes bagged with housing, clamp, mounting screw. Dims: 4"W x 5"L x 1.06"H; Cutout req.: 3.25"W x 4.43"L

Description	Part No.	Price
Black wrinkle finish	11-01939	---
Tan wrinkle finish	11-01940	---
Aluminum (unpainted with holes)	11-01941	---

4 HOLE NEXUS FRONT MOUNT JACK HOUSINGS - Housing- (4) hole .687 dia. surface mounted for nexus jack #TJT-120

Description	Part No.	Price
Black	11-11527	---
Beige	11-11528	---
Aluminum	11-11529	---

MIC / PHONE JACK MOUNTING BRACKET

Mic & Phone Jack Bracket 90 degree under the dash. Also for switches, fuses etc. . A sturdy and attractive mount, sides are formed to hide wires, .063 thick heat-treated aluminum. Black wrinkle powder coat finish. Five styles to choose from for most any installation. Easily installed.

MIC OR PHONE JACK MOUNT 1 HOLE - 1) Hole for either Mic or Phone Mounting Bracket Dimensions- 1.5w x 1.5h x 1.0 deep. Black wrinkle powder coat finish. .....P/N 11-01170 ..... ---

MIC OR PHONE JACK MOUNT 2 HOLE - (2) Hole Mic & Phone Mounting Bracket Dimensions- 2.3w x 1.5h x 1.0 deep. Black wrinkle powder coat finish
P/N 11-01180 ..... ---

MIC OR PHONE JACK MOUNT VERTICAL 4 HOLE - Bracket- (4) Hole Vertical for Mic & Phone Dimensions- 2.3w x 2.5h x 1.0 deep.
P/N 11-01190 ..... ---

MIC OR PHONE JACK MOUNT HORIZONTAL 4 HOLE - Bracket- (4) hole horizontal for either Mic or Phone Dimensions- 4.5w x 1.5h x 1.0 deep.

MOUNTINGS FOR BOSE LEMO HOUSINGS

Metal housing available in raw Aluminum, Black or Beige. Designed to be utilized with the BOSE 6 Pin Lemo Jack #323172-0010. Can mount with (4) small screws on outer flange. Dimensions: W2.9" x L3.56" x H1.06". Weight: 22 grams. Note: Hardware not included.

Description	Part No.	Price
Surface Mounted Housing 1 Hole LEMO Aluminum	11-16194	---
Surface Mounted Housing 1 Hole LEMO Black	11-16196	---
Surface Mounted Housing 1 Hole LEMO Beige	11-16197	---
Surface Mounted Housing 2 Hole LEMO Aluminum	11-16201	---
Surface Mounted Housing 2 Hole LEMO Black	11-16202	---
Surface Mounted Housing 2 Hole LEMO Beige	11-16203	---
Recessed Mounted Housing 1 Hole LEMO Aluminum	11-16198	---
Recessed Mounted Housing 1 Hole LEMO Black	11-16199	---
Recessed Mounted Housing 1 Hole LEMO Beige	11-16200	---
Recessed Mounted Housing 2 Hole LEMO Aluminum	11-16204	---
Recessed Mounted Housing 2 Hole LEMO Black	11-16209	---
Recessed Mounted Housing 2 Hole LEMO Beige	11-16210	---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

HEADSET ADAPTERS AND CABLES

PILOT USA ADAPTERS

Description	Part No.	Price
PA-50 Push-to-talk use with or without Intercom	11-07712	---
PA-70S Headphone Extension (5ft)	11-06517	---
PA-71 Microphone Extension (5ft)	11-10625	---
PA-72S Dual Headset Adapter	11-06518	---
PA-72H Dual Helicopter Headset Adapter	11-03562	---
PA-73S Dual Headphone Y Adapter	11-06519	---
PA-75 Helicopter to GA headset Adapter	11-10650	---
PA-76 GA to Helicopter Headset Adapter	11-10630	---
PA-77S Headset Extension (2 Jacks, 2 Plugs)	11-06520	---
PA-77H Helicopter Headset Extension (5ft)	11-00688	---
PA-78 Mono Replacement Headset Cable (Chrome Plugs)	11-03563	---
PA-79 Mono/Stereo Replacement Headset Cable (Chrome Plugs)	11-03564	---
PA-79DNC M/S Headset Cable: For use with PA-1779, PA-1776, PA-2	11-06521	---
PA-80S General Aviation Music Player Adapter	11-00694	---
PA-80H Music Adapter For Helicopter / Military Headset	11-03565	---
PA-81 Airbus Aircraft Headset Adapter	11-03566	---
PA-82 Headset Adapter for ICOM A22, A24 Transceiver	11-02116	---
PA-82.4 Headset Adapter for ICOM A4 Transceiver	11-03567	---
PA-82B Bose Headset Adapter for IC-A6, A22,A24	11-06523	---
PA-82H Helicopter Headset Adapter for IC-A6, A22,A24	11-06524	---
PA-83 Europe NATO to US NATO Headset Adapter	11-06525	---
PA-84 USA NATO to Europe NATO Headset Adapter	11-06526	---
PA-85 Dual GA To Icom A5, A23 Adapter & PTT Input	11-00618	---
PA-82/A25 Dual GA Headset To Icom A25 Adapter	11-17165	---
PA-86A Amplified Cell Phone Adapter GA (Twin Plug) Version	11-03568	---
PA-86AH Amplified Cell phone Adapter - Helicopter Version	11-06527	---
PA-86AB Amplified Cell phone Adapter (Panel Power) BOSE	11-06528	---
PA-87 Impedance Converter Hi (GA) to low Military	11-06529	---
PA-87H Impedance Converter Hi (Heli) to low Military	11-06530	---
PA-88 Amplified Impedance Converter low (MIL) to Hi (GA)	11-10645	---
Pilot USA PA-82/A 16 Headset Adapter for ICOM A16 transceivers (OPC 2401). Twin sockets accepts standard .25" (PJ-055) and .206 (PJ-068) plugs converting to ICOM A16 right angle plug. Direct Replacement for OPC-2401	11-17496	---

Description	Part No.	Price
PA-88H Impedance Converter Low (MIL) to Hi (Helicopter)	11-06531	---
PA-89B Panel Power 6 Pin Lemo to Dual Plug GA Headset Adapter	11-03570	---
PA89/A20 Bose A20(6-Pin) to GA Adapter	11-09422	---
PA89H/A20 Bose A20(6-Pin) to Helicopter Adapter	11-09423	---
PA89A/A20 Bose A20(6-Pin) to Airbus XLR Adapter	11-09997	---
PA89BH Bose X panel Powered to Helicopter Adapter	11-09996	---
PA-90S Triple Headset Adapter	11-03571	---
PA-91 GA (Twin Plug) Headset to (.25") Single Plug Adapter	11-00685	---
PA-92 (.25") Single Plug Headset to GA (Twin Plug) Adapter	11-03572	---
PA-93B GA to Bose Plug Headset Adapter	11-06533	---
PA-93BH Helicopter Headset to Bose Plug Adapter	11-06602	---
PA-94 Helicopter Ground Crew Extension Cable W/PTT (3ft.)	11-06534	---
PA-95 Usa Dual GA to Yaesu FTA-550 / 750L / VXA 100 / 150 Adapter	11-03574	---
PA-96 PC to GA (Twin Plug) Headset Adapter	11-03575	---
PA-97 Airbus Plug to GA Headset Adapter	11-06535	---
PA-98 Inline Helicopter Volume Control	11-06536	---
PA-99 Inline GA Volume Control	11-06537	---
PA-100B Oxygen Mask Microphone Adapter for Bose Plug Headset	11-06603	---
GOPRO Hero 3 to Dual GA Headset Adapter	11-11565	---
GOPRO Hero 3 to Lemo Headset Recording Adapter**	11-12364	---
VIRB to Dual GA Headset Recording Adapter*	11-12270	---
VIRB to Helicopter Headset Recording Adapter*	11-12271	---
Smart Phone Digital Audio Recorder Adapter for Helicopter	11-13042	---
Helicopter U-174 Headset Recording Adapter For Gopro Hero 5	11-15227	---
Dual GA Headset Recording Adapter For Gopro Hero 5	11-15226	---
Helicopter Bose 6 Pin Lemo Headset Recording Adapter For Gopro Hero 5	11-15228	---
Dual GA Mono Stereo Extension Cable 5ft	11-06520	---
Dual GA Mono Stereo Extension Cable 10ft	11-15525	---
Dual GA Mono Stereo Extension Cable 20ft	11-15526	---
Dual GA Mono Stereo Extension Cable 25ft	11-15527	---
Pilot USA General Aviation Headset 5o PC/Flight Simulator USB Adapter PA-96/USB	11-18788	---

****Will not work with Garmin VIRB or VIRN Elite**
*** Will not work with GOPRO Hero 3 Camera.**
See www.aircraftspruce.com for our Pilot USA Adapter Wizard. A quick way to find the right adapter for you!

SIGTRONICS ADAPTER CABLES

Description	Part No.	Price
PTT Switch intercom use with intercom	11-02806	---
Headphone Replace. Cable Stereo 5'	800029	---
Headphone Replace. 3-6' Coil Mono	800034	---
Headphone Replace. Coil 3-6' Stereo	800035	---
Adapter For Military Headset	11-18692	---
Mono Headphone 5' Cord	800037	---
M-80 Electret Microphone	800082	---
Converter STD Aviation Plug	900050	---
Converter Plug-STD Aviation	900051	---
Converter Plug-STD Avia-Coiled	900052	---
Headset 5' Straight Monaural	900053	---
Headset 3-6' Coiled Monaural (GA Version)	900054	---

Description	Part No.	Price
Headset Ext 3-6' Coiled (Helicopters Version)	900055	---
Microphone Y Adapter	900056	---
Headphone Monaural Y Adapter	900057	---
Headphone Stereo Y Adapter	900058	---
Headphone 5' Straight Monaural	900059	---
Microphone Extension Cable	900060	---
Headphone 5' Straight Stereo	900061	---
Converter Plug to STD Avi Plug	900062	---
Convert U-75U to U174 Plug 18"	900063	---
Convert STD Plug to U-75U	900064	---
Converter to U-75 Plug 18"	900065	---

ATS E50A MAGNETO SYCHRONIZER

The ATS E50A Magneto Synchronizer is a modern redesign of the classic test instrument used by aviation mechanics around the world for over 50 years. It uses surface-mounted (SMD) micro-circuitry to eliminate the need for the bulky vibrator, and heavy transformers. The new technology of the E50A uses low voltage signals to measure the inductance of the magneto and precisely detect the moment the points break, without any false readings.
The ATS E50A also features enhancements to make your job easier, such as a Built-In Calibrated Test Point to validate your tester before each use; a battery monitor to give you plenty of warning before your tester runs out of power; and Quiet-Mode operation that alerts you only when the points break - so no more annoying "buzz-box" always screaming at you when you're trying to do a test ..... P/N 12-01013 ..... ---

AIRCRAFT TIMING INDICATOR MODEL E25

The Aircraft Timing Indicator Model E25 is a unique device that locates the relative relationships between the crankshaft, magneto point openings, camshaft and valve timing. Easily attached to the propeller spinner with mounting bands that are included with the unit, the E25 quickly and accurately (within ½ degree!) locates top dead center. The result: the all-aluminum Model E25 speeds up and improves the process of timing magnetos to the engine. With its easy-to-read dial and 18mm, hardened aluminum piston stop, the E25 is a snap to use. Note: Piston Stop is included.
E25 Timing Indicator ..... P/N 12-01014 ..... ---
Replacement Piston Stop ..... P/N 12-18100 ..... ---

MAGNETO TIMING LIGHT

Measures the change in inductance in the magneto coil when the points open and close. Simply shorting the clip leads together will not indicate a point closing, therefore eliminating any false reading caused by loss of contact to the magneto grounding terminal. Adjust magneto timing accordingly. 100% solid state, compact 3/4" x 3" x 5" size, long battery life. Color coordinated leads are 4 ft. long. Comes in strong anodized aluminum case.
Dual Magneto Synchronizer w/Tweeter ..... P/N 12-16901 ..... ---
Single Magneto Timing Light w/Tweeter ..... P/N 12-16903 ..... ---

USA BORESCOPES PRATT & WHITNEY INSPECTION KIT

The PWC34910-109 inspection kit features the widely popular videoscope (video borescope) system consisting of a 4mm diameter, 1500mm working length, joystick articulation, durable tungsten sheathing, built in picture taking, video recording, removable SD card, lithium ion battery pack, and LCD viewing screen all built into a compact form. These systems has many improvements over the years to allow for better light output, better image quality, and upgraded recording software to better serve the inspection professionals utilizing the equipment. This borescope kit has been found especially useful for the inspection of PT6 engines, highlighting the units small diameter, short distal ends in order to easily navigate through the PWC34910-200, PWC34910-400, PWC34910,600 guide tubes. The kit also includes one PT6 guide tube of your choice, a rigid sleeve set along with gripping handle, heavy duty carrying case, SD card reader and battery charger.
HD Version ..... P/N 12-06452 ..... ---
Standard Version ..... P/N 12-06451 ..... ---

WINDOW INSPECTION PRISM KIT

This tool kit provides a proven method to inspect for cracks on the hidden edges and bolt holes of aircraft windows. Kit contains the prism, hard-coated with AWR 8000, 1 oz. bottle of coupling fluid, flashlight and an instruction guide, all in a durable carrying case. P/N 09-05588 ..... ---

ENGINE TEST KIT

EK5EM - The Engine Test Kit EK5EM has all of the test equipment needed to check engine compression, synchronize magnetos, time aircraft engines, and test ignition leads all in one tool box. The kit contains: the 2EM Differential Pressure Tester with master Orifice, LED52 Electronic Magneto Synchronizer, Eastern E25 Aircraft Timing Indicator, Eastern E5 High Voltage Cable Tester, the Compression Tester Extension & Hip Roof Tool Box ..... P/N 12-02449 ..... ---

EK5 - ATS Engine Test Kit has all of the test equipment needed to check engine compression, synchronize magnetos, time aircraft engines, and test ignition leads all in one tool box. Contains: 2E, LED52, Eastern E25, Eastern E5, & 19000 tool box. Now includes the 18mm-XT Compression Tester Extension ..... P/N 12-02943 ..... ---

ATS E5A HIGH VOLTAGE CABLE TESTER

The Model E5 High Voltage Cable Tester tests Hi-Voltage aircraft engine ignition cables quickly and accurately. And it's incredibly easy to use: simply connect the three wires, push the test button and check the test window. That's all there is to it. By simulating the magneto's high output voltage, the E5 instantly identifies both good and defective cables. And it operates on either 12 or 24 volts,D.C.
The E5 eliminates guess work, saves valuable time, is equipped with an audio high voltage indicator to ensure safety and is 100% dependable. And no other high quality cable tester is as attractively priced. ..... P/N 12-01016 ..... ---

DIFFERENTIAL CYLINDER PRESSURE MODEL E2A

Eliminates guesswork by allowing you to locate the exact location and cause of your engine's loss of efficiency. Field tester for 2 years by Teledyne Continental Motors, and approved for use on Teledyne Continental Engines by their Engineering and Field Services Group. Complete instructions and an 18mm adapter with each unit. "M" models have built-in master orifice.* **Not approved by TCM.**
E2A - for cylinders < 5" bore ..... P/N 12-01012 ..... ---
E2A-1000 - for cyl. > 5" bore ..... P/N 12-01017 ..... ---
E2M - for cylinders < 5" bore ..... P/N 12-01015 ..... ---
E2M-1000 - for cyl. > 5" bore* ..... P/N 12-00692 ..... ---
E2A-12mm (Rotax) for cyl. < 5" bore ..... P/N 12-00693 ..... ---
12 mm Adapter ..... P/N 12-01018 ..... ---
14MM Adapter ..... P/N TP171 ..... ---
18MM Adapter ..... P/N TP104-9A ..... ---
Compression Tester Extension Hose 24" ... P/N 12-04601 ..... ---

ATS DIFFERENTIAL CYLINDER PRESSURE TESTERS

Comes complete with on-off safety valve to eliminate pressure when disconnecting from the cylinder. Can be used to check intake or exhaust valves, cracked or worn rings, defective cylinders, worn bushings, etc.

LESS THAN 5" BORE

Specifications: Orifice size is .040". precision gauges matched to within +/-2%. 18MM plug adapter. 24" pressure hose. Includes hose and spark plug adapter. Factory calibrated. Letter of certification available upon request. Note: For an engine cylinder having less than a 5.00-inch bore; 0.040-inch orifice diameter; .250 inch long; and a 60-degree approach angle.
P/N 12-02344 ..... ---

GREATER THAN 5" BORE

Specifications: Orifice size is .060". precision gauges matched to within +/-2%. 18MM plug adapter. Includes hose and spark plug adapter. Factory calibrated. Letter of certification available upon request. Note: For an engine cylinder with 5.00 inch bore and over: 0.060 inch orifice diameter, .250 inch long, and a 60 degree approach angle.
P/N 12-02345 ..... ---

18MM CYLINDER PLUG

18MM adapter plug used with the ATS 2E and 2EM Differential Pressure Testers. For engines with massive electrode plugs.
P/N 12-05064 ..... ---

DIFFERENTIAL PRESSURE TESTER WITH MASTER ORIFICE

Now you can conveniently check the calibration of your pressure tester before each use without disconnecting the tester. Comes with complete instructions. Includes hose and spark plug adapter.

5" Bore Diameter or smaller
P/N 12-02346 ..... ---
Bore Diameters greater than 5"
P/N 12-02347 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ATS TIME-RITE® PRO BASIC KIT - 18MM ENGINES

The classic tool for timing aircraft engines. Timing is accomplished by means of pivot arm actuated by the piston's motion, a slide pointer, automatically referenced by the pivot arm and an adjustable calibrated scale. 18mm basic unit. P/N 12-05511 ..... ---

ATS TIME-RITE® PRO COMPLETE KIT - 18MM ENGINES

Time-Rite has been the number one choice of aviation mechanics for over 40 years when it comes to precisely timing engines. Time-Rite is an instrument designed for precision timing of aircraft engines by direct measurement of piston travel. The complete kit includes the basic unit plus the complete set of Arms and Scales required to service 18mm engines .....P/N 12-05512 ..... ---

ATS TIME-RITE® DELUXE COMBO KIT

Deluxe combo kit contains everything needed to handle every engine listed in the timerite manual. Time-Rite is an instrument designed for precision timing of aircraft engines by direct measurement of piston travel. Kit Includes: (1) 18mm Time-Rite unit, (1) 14mm Cone, A complete set of .....P/N 12-02872 ..... ---

ATS PRO DIFFERENTIAL PRESSURE TESTER KIT

ATS 2EM Differential Pressure Tester (with Master Orifice) and the Spark Plug Port Extension Tool together, to make your life a whole lot easier.

Note: The ATS 2EM Differential Pressure Tester has a .040" orifice as required by Teledyne Continental SB03-3 Service Bulletin, and is the proper type of instrument to test ALL Teledyne Continental engines in accordance with the aforementioned bulletin. The ATS 2EM also complies Textron Lycoming SI-1191A Service Instruction and is appropriate for ALL Textron Lycoming engines as indicated in the Service Instruction.....P/N 12-03330 ..... ---

COMPRESSION TESTER EXTENSION

This tool makes compression testing easy. Wrench free way to test that allows for exhaust system and baffling clearance. Tester is manufactured with quality-welded construction and offers a spark plug thread with O-Ring seal. It has a standard air fitting. P/N 12-01060 ..... ---

2mm Extension.....P/N 05-06883 ..... ---

ATS COMPRESSION TESTER EXTENSION

A replacement plug adapter with an 8-1/2" reach to work around manifolds, baffiling, harnesses, support structures, and anything else that gets in your way. **Note**: For use with ATS models 2E and 2EM Compression Testers. 1 lbs (0.5Kg) weight. 18MM aviation engine plug threads 8-1/2" long to clear obstacles. Standard. P/N 12-02380 ..... ---

ATS HEAVY DUTY DIGITAL MULTIMETER

This rugged multimeter is designed to give reliable, accurate readings under the most extreme conditions. The case is double-injection molded and it also has a removable heavy vinyl casing to guard against impact. Measures voltage, amperage, resistance, continuity, capacitance, temperature, and diode checks. Positive stop rotary switch selects any of over 40 different functions. .....P/N 12-05093 ..... ---

SEEKER 300 VIDEO BORESCOPE SYSTEMS

The Seeker 300 Video Borescope System offers a large 3.5-inch LCD color monitor and a 5.5mm flexible, configurable camera probe with adjustable LED lighting. Ideal for use in the visual inspection of otherwise inaccessible areas. This Video Borescope Kit also includes a mirror, magnet and pick-up hook that can be attached to the end of the probe. 3.5" (88.9mm) Color LCD Screen for crystal clear image, superb clarity and viewing effect. 5.5mm or 12mm diameter Camera-tipped Probe is flexible and strong with built-in adjustable LED lighting, and is slim enough to perform automotive engine check-up. Probe Length: Standard: 3.28ft. (1m), Optional: up to 16ft (5m). View findings instantaneously. 12mm Probe.....P/N 12-02297 ..... ---

VOYAGER ARTICULATING VIDEO BORESCOPE

Features an articulating tip that swings 240 degrees to reach every inspection point of an airplane. With a simple turn of the control knob, you can move its Tungsten-sheathed tip from side to side to look left, right, and even backwards! The ATS Voyager gives you unprecedented access to areas that simply cannot be reached with a straight probe. Included with the ATS Voyager is a 70 degree tip mirror to look at right angles to the normal line of sight .....P/N 12-04561 ..... ---

HAWKEYE® V2 VIDEO BORESCOPE

The Hawkeye® V2 Videoscopes contain a brighter, higher resolution, more durable camera, delivering sharp, clear photos and videos in a wide range of demanding inspection applications. The larger 5" LCD screen provides detailed close-up views, and has a 2X zoom function, mirror image capability, and easy-to-use intuitive controls. Has an articulation mechanism, and has increased the range to +/-150 deg. The insertion tube has rugged, 4-layer construction, with a crush resistant stainless steel inner layer. Available in diameters of 4 and 6 mm, lengths of 1.5m, 3.0m, and 6.0m.

VISIT WWW.AIRCRAFTSPRUCE.COM FOR PART NUMBERS AND PRICING.

HAWKEYE® V3 HD VIDEO BORESCOPES

The Hawkeye® V3 Video Borescope features a Micro HD video camera, and custom-engineered image processor. The 4- and 6-mm Hawkeye V3's deliver simply the best image quality of any borescope on the market today! Video footage, and still images, captured by the V3 appear crystal clear and with vibrant, lifelike colors. Incorporates a large, 5.5-inch HD, daylight readable, touch-screen display. Easily displays, captures, and transmits over WiFi, crystal clear High-Definition (HD) video and still images, and does so using a sleek, ergonomic design, superior construction, and intuitive user interface. A valuable tool for numerous manufacturing quality control applications… in the QC Lab and on the shop floor. Also, an essential tool for aircraft, and power generation, windpower, and engine and systems maintenance teams. The fully portable V3 provides fast, accurate diagnostics, in mission-critical situations, without the need for costly, time-consuming engine teardown. Interchangeable 90-degree and close-focus optical tips are optional. The smooth servo-driven articulation range is +/- 180 degrees. The V3 can operate continuously for 6 hours without the need for recharging. The V3 contains an integrated, high-efficiency Micro LED light source.

Diameter	Length	Part No.	Price
4mm	1.5m (4	12-05637	---
4mm	3.0m (9	12-05638	---
6mm	3.0m (9	12-05639	---
6mm	1.5m (4	12-05640	---

ENGINE OIL PRESSURE TEST KIT

Test and diagnose problems with engine oil pressure in diesel or gasoline engines with this easy-to-use kit. The oil pressure test kit contains a wide assortment of durable brass adapters designed to fit most engines. The kit includes a rugged 66 in. high pressure rubber hose and a tough steel gauge that withstand even harsh work conditions. P/N 12-05093 ..... ---

JOYSTICK ARTICULATION 4MM VIDEOSCOPE 1.5 METER

This HD image quality borescope offers 360° all-way rotating articulation. The articulation allows you to maneuver or steer the tip of the probe. This is an essential feature for aviation borescope inspections while inspecting turbine blades. This is also a valuable option for other nondestructive test inspections as it allows you to view the full view of the inspection area without having to disassemble the finished product. Features: • Joystick Articulation • 5″ HD Touch Screen • Photo / Video Recording via Micro SD Card (1280x720px) • Video out via HDMI output • Digital Zoom • Graffiti to mark objects • 8 character text annotation • EV Adjustment. ..P/N 12-06448 ..... ---

USA 2 WAY ARTICULATING PORTABLE RECORDING VIDEOSCOPE

The USAVS2-2.8-1000 has been added to USA Borescopes economy videoscope line up because it offers end users the opportunity to upgrade from a lower cost fiberscope to an articulating videoscope with its own internal lightsource, video recording, picture taking, and SD card storage. This unit features tungsten sheathing as found in many other higher end videoscope systems. The image quality provides an improvement over flexible fiberscopes which typically will feature between 9,000-15,000 pixels. This unit is a basic system to allow for a low cost inspection option.....P/N 12-04963 ..... ---

TO

INSPECTION SCOPES

VIVIDIA ABLESCOPES AND BORESCOPES

VIVIDIA ABLESCOPE VA-400 V5

Vividia Ablescope VA-400 v5, ideal for detailed visual inspection in hard-to-reach places such as car engines with 180 Degree articulation 8.5mm diameter steel probe and 8 bright LED lights. The 180 degree bending back probe camera with LED lights makes it possible to inspect the back side of an dark inside compartment. **Features:** • Articulation bendable angle: 0° to 180° continuously adjustable. You can inspect the back side of a closed dark compartment • Very easy to operate. Just push down the release button by bending the thumb to adjust the articulation angle • Very small bending radius: 30mm • Illumination: 6 white LED lights built-in • High resolution image with CMOS sensor • Focal Distance: 0.5cm – 100cm, fixed focus with broad focus range • Power supply: by USB port of PC, tablet, or phone.

VA-400 V5 USB Borescope ONLY.....P/N 12-04891 ..... ---
VA-400 V5 & W03B Wi-Fi Box Bundle .....P/N 12-06268 ..... ---

VIVIDIA ABLESCOPE VA-400I

The Vividia Ablescope VA-400i borescope is perfect tool for conducting detailed inspections in difficult-to-access areas, like engines. It features a flexible 180-degree articulating 8.5mm diameter steel probe, equipped with 8 bright LED lights. This design enables thorough examination of dark, internal compartments, particularly the backside areas that are typically hard to see. * No more changing rubber sleeves! P/N 12-06446 ..... ---

VIVIDIA ABLESCOPE VA-408

Vividia VA-408 is a long version of VA-400 USB one-way articulating rigid straight borescope.
The probe tube of VA-400 is 400mm (15.8"), while VA-408 has 800mm (31.5") long probe tube.
P/N 12-05641 ..... ---

VIVIDIA LCD & WIFI TWO WAY ARTICULATING INSPECTION CAMERA BORESCOPE VIDEOSCOPE

Vividia CT-6010 LCD/WiFi Waterproof Two-Way Articulating Video Borescope with 4.5" Monitor and 6mm Diameter 1.0 Meter Long Probe.
P/N 12-05630 ..... ---

VIVIDIA LCD & WIFI TWO WAY ARTICULATING INSPECTION CAMERA BORESCOPE VIDEOSCOPE

Vividia CT-4010 LCD/WiFi Waterproof Two-Way Articulating Video Borescope with 4.5" Monitor and 4mm Diameter 1.0 Meter Long Probe.
P/N 12-05631 ..... ---

VIVIDIA JOYSTICK 360° ALL AROUND ARTICULATION VIDEO BORESCOPE

Vividia ME-610i USB Flexible Smartphone Joystick Articulating Inspection Camera Borescope has 6mm diameter and 1 meter long flexible probe, which is covered with polymer tube for durability and waterproof IP67.
Vividia ME-610i has bright LED lights, joystick pivoting 6mm (0.236") probe camera and it can be used to look into dark places as a diagnostical inspection camera.
P/N 12-05629 ..... ---

VIVIDIA ABLESCOPE VA-920

Vividia Ablescope VA-920 is a handy borescope inspection tool. It is short and the semi-flexible cable can be formed to shapes you want. The image is clear, and can be connected to PC, Mac, Android devices.
P/N 12-04893 ..... ---

VIVIDIA 360 DEGREE ROTATIONAL BORESCOPE

Vividia Ablescope VA-400 v5, ideal for detailed visual inspection in hard-to-reach places such as car engines with 180 Degree articulation 8.5mm diameter steel probe and 8 bright LED lights. The 180 degree bending back probe camera with LED lights makes it possible to inspect the back side of an dark inside compartment.
Specifications: • Sensor: high-quality CMOS sensor Still Image Resolution: 1280x720 pixels • Format: JPG • Video Resolution: 1280x720 pixels • Format: AVI • Frame Rate: 30FPS • Optical lens view angle: 120° • Focus range: 5mm to infinity • Probe diameter: 8.5mm • Probe length: 42cm (16.5") • PC Interface: USB 2.0 • USB Cable Length: 200cm • Compatible systems: Windows 10/8/7/XP/Vista; MacOS; Chromebook; Android 4.0 and above. P/N 12-06269 ..... ---

VIVIDIA ABLESCOPE VA-980

Vividia Ablescope VA-980 Semi-Flexible Digital Inspection Camera Borescope has long semi-rigid cable, which can be molded with hand to different shape and keep it. VA-980 has bright LED lights, 8.5mm cable camera and it can be used to look into dark places. VA-980 can be connected to PC, Mac, Android devices .....P/N 12-04894 ..... ---

VIVIDIA IPS JOYSTICK ARTICULATING VIDEOSCOPE BORESCOPE INSPECTION CAMERA

Vividia ME-610X IPS Joystick Articulating Automotive Industrial Borescope Inspection Camera is specially designed for automotive and industrial inspection and diagnostics.
P/N 12-05632 ..... ---

VIVIDIA ABLESCOPE WIFI AIRBOX USB TO WIFI CONVERTER FOR USB DIGITAL BORESCOPES

Vividia W03 WiFi AirBox USB-to-WiFi Converter Adapter for iOS and Android devices for Digital Borescopes and Microscopes is designed to convert the USB output from USB borescopes and/or microscopes into a WiFi hotspot. It works with UVC (USB Video Camera) that has MJPEG or YUY2 format outputs.
This W03 WiFi AirBox is suitable to your USB digital microscopes, borescopes, cameras, inspection cameras etc... With this device, you can use your iPhone, iPad, Android phones and tablets to access your USB microscopes, borescopes and inspection cameras through WiFi connection. The free app, WIFI Image, can be downloaded from Apple's App Store and Google Play Store

With Battery .....P/N 12-05636 ..... ---
Without Battery .....P/N 12-05635 ..... ---

VIVIDIA D3145 USB DIGITAL BORESCOPE

Vividia D3145 USB Digital One-Way Articulating Borescope has 4.5mm diameter camera probe and 1 meter long insertion tube. D3145 can only be bended in one direction, and the maximum bending angle is ~180 degree. The insertion tube has metal braided outside layers and the bending part is also made with stainless steel, which offers good abrasion resistance. With USB connection, one can connect Vividia D3145 Digital Borescope to a Windows PC (WIndows XP, 7, 8 and 10), MacBook, android devices. With VA-B2 AirBox wifi wireless converter and our "AirBox" app from Google Play Store or Apple App Store, one can use own iPhone/iPad or Android device with Vividia D3145 USB articulating borescope.
P/N 12-05430 ..... ---

VIVIDIA D3160 USB DIGITAL BORESCOPE

Vividia D3160 USB Digital One-Way Articulating Borescope has 6mm diameter camera probe and 1 meter long insertion tube. D3160 can only be bended in one direction, and the maximum bending angle is ~180 degree. The insertion tube has metal braided outside layers and the bending part is also made with stainless steel, which offers good abrasion resistance. With USB connection, one can connect Vividia D3160 Digital Borescope to a Windows PC (WIndows XP, 7, 8 and 10), MacBook, android devices. Vividia D3160 Articulating Borescope is an ideal tool for automotive, airplane, aviation, manufacturing, and instrument inspections. The small diameter probe of D3160 borescope makes it good for diesel engine inspection..P/N 12-05428 ..... ---

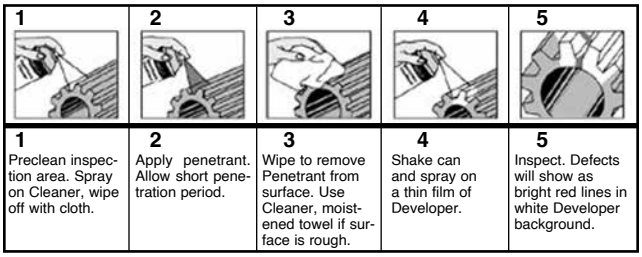
VIVIDIA CT-4010 LCD/WIFI FLEXIBLE TWO-WAY ARTICULATING BORESCOPE

Vividia CT-4010 LCD/WiFi Waterproof Two-Way Articulating Video Borescope with 4.5" Monitor and 4mm Diameter 1.0 Meter Long Probe.
Features: • Probe diameter 4mm / 0.16", length 1.0 meter / 3.3 ft • Camera HD resolution 1280x720 • Probe is waterproof IP67 and protected with metal braided layers • 2-way articulation with max. bending angle more than 180 degree • Bright LED lights • 4.5" LCD monitor detachable and rechargeable battery • Built-in WiFi function for connection to iPhone iPad Android device.
Specifications: • LCD monitor display: • Monitor size: 4.5" TFT-LCD (850 x 480 pixels) • Monitor connection: Detachable. exchangeable • Monitor material: resistant PC housing • Power: rechargeable lithium battery, 6000 mAh • Key pads: Menu, video, photo shot, LED light adjustment • Languages: 12 languages • Storage: SD card, up to 128G • Photo format: JPEG, 1280x720 • Video format: MOV, 1280x720 • Audio recording: Yes • LED light level: 4 brightness levels
P/N 12-06583 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MAGNAFLUX NDT (NON-DESTRUCTIVE TESTING) KIT



A quick, easy way to make shop and in-field inspections of landing gear, airframe and components. Highly sensitive Spotcheck dye penetrants which give clear, bright red indications. Locates very fine cracks on the surface of ferrous and non-ferrous components, equipment and structures. Reveals cracks on materials with surface temperatures as high as 350°F. Perfect for testing welds before thorough cooling. Convenient spray cans make application easy and contain no fluorocarbon propellants. Non-flammable. Materials meet applicable specifications for dye penetrant inspections (ASME, ASTM and MIL specs). Considered flammable and hazardous by UPS.

MAGNAFLUX SPOTCHECK NDT (NON-DESTRUCTIVE TESTING) - 4 CAN KIT

The lowest priced way to check for cracks, leaks and other defects on any metal parts. Kit includes 1 spray can of developer, 2 cans of cleaner & 1 can of dye penetrant in cardboard case.

4-CAN SPOT CHECK® TEST KIT

SK-416 - Includes: • SKC-S, 2 aerosol cans • SKL-SP2, 1 aerosol can • SKD-S2, 1 aerosol can • SCRUBS® hand cleaner towels, 3 towels • DYKEM® Brite-Mark yellow paint marker, 1 pen • Shop Cloth, 1 towel
Magnaflux 4-can kit - SK-416.....P/N 09-00391 ..... ---
Developer .....P/N SKD-S2 ..... ---
Cleaner/Remover (12oz. Aerosols).....P/N SKC-S ..... ---

MAGNAFLUX SPOTCHECK NDT (NON-DESTRUCTIVE TESTING) KIT - 8 CAN

In The Box:
• 4 x Aerosol cans of SKC-S cleaner
• 2 x Aerosol can of SKL-SP2 penetrant
• 2 x Aerosol can of SKD-S2 developer.....P/N 09-05791 ..... ---

SKC-S CLEANER

This clear, fast-drying solvent can be used for pre-cleaning, post-cleaning and penetrant removal.
16 oz.....P/N 09-01188 ..... ---
Gallon .....P/N 09-04508 ..... ---
Case (4 Gallons) .....P/N 09-04509 ..... ---

SKL-SP2

Because of its vivid red color, this solvent removable dye penetrant provides excellent color contrast performance to locate surface cracks in virtually any metal or non-porous ceramic material.
P/N 09-04661 ..... ---

SKD-S2 DEVELOPER

Made especially for use with SKL-SP penetrant, this developer contains suspended white particles that provide an ideal background for red Spotcheck penetrant indications.
16 oz.....P/N 09-01190 ..... ---
Gallon .....P/N 09-04510 ..... ---
Case (4 Galons) .....P/N 09-04511 ..... ---

MET-L-CHEK PENETRANT INSPECTION KITS

Met-L-Chek kits provide a completely portable, job-proven method used throughout the industry to locate cracks, flaws and other defects. These economical & effective kits provide everything needed to make inspections in the shop or field. The penetrant materials are packaged in easy-to-use aerosol spray cans and a can of cleaner included for cleaning parts before inspection. The inspection procedure is easy to learn, accurate and inexpensive. Met-L-Chek can be used on ferrous and non-ferrous materials to find surface defects and 'thru leaks'. Supplied in a rugged metal case with complete instructions. The 4-Can Kit has one aerosol spray of cleaner, penetrant, developer and remover. The 8-Can Kit has 2 cans of each material. Individual replacement cans available.
4-Can Kit (16 Ounces) .....P/N 09-03040 ..... ---
8-Can Kit (16 Ounces) .....P/N 09-03052 ..... ---

MET-L-CHEK PENETRANT VP-30

VP-30 is a visible (Type 2), water washable (Method A) and solvent removable (Method C) inspection penetrant. It is designed for use in general metalworking, welding, nuclear and automotive applications for surface flaw and through leak detection. VP-30 has found wide use in the inspection of food and dairy processing equipment such as heat exchanges. Visible penetrants are not rated by sensitivity levels per AMS-2644 but are considered approximate to level 1 fluorescent penetrants. 50μ discontinuities are readily detected and under controlled conditions 30μ size defects may be high lighted by visible penetrants. ISO-3452-2005 does rate visible penetrants by sensitivity level with #2 being the most sensitive. VP-30 is a level 2 per this specifications requirements.....P/N 09-04320 .....

MET-L-CHEK CLEANER/ REMOVER E-59A

E-59A is a class 2 (non-halogenated), Method C inspection penetrant remover. It is designed for use in the solvent wipe technique for penetrant inspection in general metalworking, welding, nuclear and automotive applications. It is a moderate dry rate material and is ideal for penetrant wipe removal and pre-inspection surface cleaning. As a pre-cleaner it is sprayed directly on the test surface. As a penetrant remover it is sprayed onto wiping media and then the penetrant wiped from the surface.The remover should not be sprayed directly on to the test surface to remove the excess penetrant as the sensitivity will be impaired.....P/N 09-04307 ..... ---

MET-L-CHEK DEVELOPER D-70

D-70 has been used by automotive manufacturers to assist in locating oil and gas leaks in engine components and hydraulic lines. The area of interest is cleaned and the developer applied. The engine is run and the oil leak will appear as a dark spot on the white coating. Reminiscent of the old oil and whiting inspection used by railroads before the advent of modern penetrant inspection materials .....P/N 09-04303 ..... ---

MET-L-CHEK MPI-1400B FLUORESCENT WET METHOD PARTICLE BATH

MPI-1400B is a premixed, ready-to-use, fluorescent magnetic particle bath available. It is a mixture of MPI-Carrier Fluid C2 and MPI-1400 fluorescent particles. Particle concentration level is ≈ 0.35 in the 100mL centrifuge tube. Aerosols are pressurized with nonflammable, environmentally friendly CO2.
P/N 09-05862 ..... ---

MET-L-CHEK FP-923 FLUORESCENT INSPECTION PENETRANT

FP-923 is used for the detection of fine cracks, porosity, and through leaks on metals, composites, synthetic materials, and some plastics. The materials used are low in sulfur and halogens, VOC free, and safe for use on all metal surfaces. It is bright yellow, smooth washing and non-gel forming, allowing a clean wash cleanly from rough surface. It is applied by immersion, spray, or wipe on and is approved for high sensitivity aerospace applications.
For Method C applications it is used with E-59, E-59A, R-503, and R-504. .....P/N 09-05863 ..... ---

TO

TUBE BENDERS – CUTTERS – FLARING TOOLS

LEVER TYPE BENDERS

Each tool bends one size. Open side type slips over tube at any point. Makes smooth short-radius bends up to 180° with minimum effort. No marking, scraping or flattening of tubing. Calibrated to show angle of bend. Wide hook grips tube securely. Suitable for bending annealed copper, aluminum, steel, stainless steel and hard copper tubing of bending temper.

Tubing O. D.	Bender Model No.	Part No.	Bending Radius	Price
1/4”	364-FHA-04	12-20004	9/16”	---
5/16”	364-FHA-05	12-20005	11/16”	---
3/8”	364-FHA-06	12-20006	15/16”	---
1/2”	364-FHA-08	12-20008	1-1/2”	---
3/4”	364-FHA-12	12-20012	3”	---

TRIPLE HEADER TUBE BENDER

For bending annealed copper, aluminum, brass, steel and stainless steel tubing. Multi-tube design does the work of three conventional lever type benders. Calibrated markings for making accurate left-hand, right-hand and offset bends. (for 1/8”, 3/16”, 1/4” O.D.).....P/N 12-01577 ..... ---

IMP® TRIPLE HEADER TUBE BENDER

Calibrated markings for making accurate left-handed, right-handed and offset bends. 90° start requires less effort-making bending fast and easy. For 1/4”, 5/16”, & 3/8” (6 & 8 mm) O.D. tubing. 15/16” radius to center of tube.(for 1/4”,5/16”,3/8” OD)

P/N 12-01578 ..... ---

BRAIDED STAINLESS STEEL HOSE CUTTER

The AN braided stainless steel hose cutter makes quick work of cutting hoses to length. It features long handles for better leverage and a rubber no-slip grip. It can cut any braided stainless steel line up to size 12 AN. P/N 12-02574 .....

PLASTIC TUBE SHEAR

Lightweight tubing shear only 3” overall in length, easily cuts all thermoplastic tubing and other types of non-wire reinforced hose.....P/N 12-02580 ..... ---

Pkg’ of 5 blades

EZ-BEADER TUBING BEADERS

Compact design. Capable of tubing wall thickness from .035 to .065 thick

Size	Description	Part No.	Price
3/4”	EZ-BEADER TP885D	12-00357	---

HI-DUTY TUBE CUTTER

For 1/8” to 1” O.D. metal tubing. Makes clean, right-angle cuts with no burrs or chips to clog tubing. Roller type with flare cut-off groove, fold-away reamer and spare cutting wheel. Wt. 6-1/2 oz.

Hi-Duty Tube Cutter ..... P/N 12-00382 ..... ---
Replacement Reamer Blade .. P/N 79318-01 ..... ---

“IMP” TUBE CUTTER

Designed for use in tight quarters where other cutters won’t fit. For 1/8” to 5/8” O.D. tubing. Requires only 13/16” swing radius. Perfect for instrument panels, control cabinets, machine tools, etc, Size: 111/16”x 1-5/16” x 7/8”. Wt. 2-1/2 oz. . P/N 12-01277 ..... ---

JUNIOR TUBE CUTTER

Exceptionally handy in close quarters - only 3-1/2” overall length. Makes clean, right-angle cuts without flattening tube. Cuts 1/8” to 3/4” O.D. tubing. Enclosed feed mechanism. Wt. 5 oz.

Junior Cutter..... P/N 12-01576 ..... ---
Replacement Cutter Wheel .. P/N 32633 ..... ---

MINI TUBING CUTTER

The mini tube cutter’s compact design is ideal for tight spots under sinks and behind appliances. It cuts copper, brass and aluminum tubing from 1/8” to 1 1/8”.

P/N 15-07093 ..... ---

MINI TUBING CUTTER

Performs where conventional tubing cutters simply cannot fit. With a 1-1/2” swing radius, the Mini Cutter is ideal for limited-space applications. Accepts tubing sizes from 1/8” to 7/8” in diameter and up to 1/8” in wall thickness. Capable of cutting through copper, aluminum, brass and thin-wall stainless steel.

P/N 12-03348 ..... ---

TUBING CUTTER

Tubing sizes from 1/8” to 1-1/8”, and up to 3/16” in thickness. The cutter easily slices through copper, aluminum, brass, stainless steel and other tin-wall tubing. Uses the RW122 cutting wheel. Includes a retractable reamer with dual cutting edges.

P/N 12-03347 ..... ---

COMPOUND TUBING BENDER

Allows you to make precise left, right and offset bends with a simple, hand-held mechanism. The calibrated angle markings indicate 15 degree increments from 0 to 45 degrees for accurate results. Handles 4 popular tubing sizes and comes in a convenient vinyl storage pouch. ..... P/N 12-03353 ..... ---

HI-DUTY FLARING TOOL 37°

For: 3/16”, 1/4”, 5/16”, 3/8”, 1/2” and 5/8” O.D. tubing. 437-FB For use with soft copper, aluminum and brass tubing. New slip-on yoke permits use in tight quarters, allows flaring where there is little space between nut and tube end. Wt. 1.75 lbs... P/N 12-01581 ..... ---

ROL-AIR FLARING TOOL 37°

Faceted, hard chrome finished cone rolls out perfect flares above die block, then automatically burnishes flare face. Slip-on yoke permits use in tight quarters. Heat treated dies grip tubing without scoring. Flares and burnishes: 3/16”, 1/4”, 5/16”, 3/8”, 1/2” and 5/8” O.D. tubing. Wt. 1-1/2 lbs. Works on some Stainless Steel Tubing but not warranted for Stainless. ... P/N 12-01582 ..... ---

ROLO-FLAIR FLARING TOOL 37°

Operates on same principle as Imperial #507-FA but flares 1/8” (primer line) and 3/4” tubing as well. Size: 4”W x 4”D x 8”H. Wt. 2-1/2 lbs. Excellent tool for bench - not for close-quarter work. Not for use on Stainless Steel Tubing. ..... P/N 12-01575 ..... ---

DELUXE 37° FLARING TOOL

Forms 37° flare to AN standards in steel, stainless steel (including MIL-T 6845), titanium, an other metal tubing. Three rollers in flaring cone roll out 37° flare above die block. Extension on yoke for clamping in vise. Furnished in plastic kit. Wt. 2-1/2 lb.

P/N 12-01579 ..... ---

TO

37° DOUBLE & SINGLE LAP FLARING TOOL

Makes flares to AN standards in soft copper and aluminum tubing for 3/16" 1/2" O.D. Also makes single 37° S.A.E. standard and oversize flares. Double Lap Flare: 1/4", 5/16", 3/8". Single Lap Flare: 3/16", 1/2". Wt. 4 lbs.

P/N 12-00205 .....

37° DOUBLE & SINGLE LAP FLARING TOOL KIT

Forms 37° double lap flares to AN10078 in soft copper and aluminum tubing (wall thickness to .040"). Also includes a tubing cutter, an inner-outer reamer, and a plastic carrying case. Double Lap Flare: 1/4", 5/16", 3/8". Single Lap Flare: 3/16", 1/2". A quality tool kit which is made in the U.S.A .....P/N 12-00210 ..... ---

BRAKE LINING & GENERAL RIVET SETS

Deluxe Model (404) - Our deluxe model brake relining tool makes it virtually impossible to botch a brake relining job. The threaded screw action of the rivet insertion tool insures a perfect roll on brake rivets every time without damaging the liner. Deluxe Model (Threaded)

P/N 12-20810 ..... ---

Punch Non-Threaded / Brake Relining for model 403.....P/N 12-01171 ..... ---

Anvil Punch/Brake Relining for model 404

P/N 12-01170 ..... ---

Brake Lining Rivet 4X6.....P/N 06-02300 ..... ---

BR1007 Rivet Set for Reline .....P/N 12-01173 ..... ---

PARKER TYPE AIRCRAFT TUBE BEADING TOOL

The Parker Beading Tool has been the number one choice of aircraft mechanics for making clamping beads in metal tubes. To this day, no other tool even comes close to matching its quality. So by special arrangement, the manufacturer tooled up to recreate this classic tool in every detail. In the process they have added a few enhancements of their own, such as ground, hardened, and polished surfaces for mar-free beads in aluminum, copper, brass, and mild steel tubes ranging from 1/4" to 1" diameter. Meets MILSPEC MS33660D and SAE AS5131 standards ....P/N 12-01049 ..... ---

PROFESSIONAL RIVETING KIT

This Professional Riveting Kit has all the tools you need to drive rivets like a pro... It contains the best-selling ATS Pro Series 3X Rivet Gun, a selection 4 of our most popular Bucking Bars (141, 142, 148, and 149), plus a complete assortment of Rivet Sets to install Universal Head (AN470) or Flush (AN426) rivets in sizes 3/32" to 3/16".

P/N 12-01698 ..... ---

IMPERIAL 470-FH TRIPLE HEAD 180° TUBING BENDER

The 470-FH Triple Head 180° Tube Bender bends 4 diameters of tubing with just one tool! It handles soft copper, aluminum and thin-walled steel tubing in 3/16", 1/4", 5/16" & 3/8" diameters. Like the heavy duty 464-FH, it features the patented ROTO-LOK™ two-stage handle that allows east fabrication of bends up to 180°. It also features optimized bending grooves that allow the user to bend the tubing in the smallest radius possible to enable tighter turns and minimize the space taken by the bends. Soft copper - .030-.032" wall. 304 stainless steel - .030-.032" wall.....P/N 12-01042 ..... ---

ATS HAND RIVET SQUEEZER

Has a very solid feel, and professional look that will complement anyone's toobox. Squeezes up to 5/32" aluminum (1/8" seel) rivets. Works with any rivet sets, or diple dies having a 3/16" (.187") shank. Adjustable ram does not need shims. Lifetime warranty. Features:•1.5" Yoke •Drop forged from Stainless Steel for unmatched strength and durability •Clasic bushed stainless steel finish. •Adjustable ram does not need shims •Squeezes aluminum rivets up to 5/32" and steel rivets up to 1/8" •Comfort grip rubber handles •4lbs shipping weight .....P/N 12-01620 ..... ---

PRO HEAVY DUTY RIVET SQUEEZER

1-1/2" Reach. 1-1/4"gap height. 3/16" aluminum rivet capacity. 360 degree swivel head locks yoke locks in any position for greater versatility 5/8" adjustable ram eliminates the need for shims. Longer handles for better leverage. 3/16" aluminum (5/32" steel) rivet capacity. 21" overall length. Does not come with squeezer sets.

P/N 12-04961 ..... ---

RIVET SQUEEZER BENCH UPGRADE KIT

Upgrade kit converts 5011-1 (12-04961) Rivet Squeezers to new bench model. Easy to install. Does not work with older model rivet squeezers.

P/N 12-04962 ..... ---

PNEUMATIC "C" SQUEEZER KIT

Lightweight and has the same power as the Chicago Pneumatic 214C squeezer on which it is based. It accepts the same yokes and attachments as the 214C squeezer, and is powerful enough to squeeze up to 1/8" solid aluminum, or 3/32" solid steel rivets. Complete kit includes ATS-114C Squeezer with a 1-1/2" yoke (p/n 14-3), a Longeron yoke (14-10), and a 17 piece assortment of squeezer and dimpler snaps. Features: • Compatible with Chicago Pneumatic 214C squeezers • Squeezes up to 1/8" aluminum or steel rivets • Compact only 10" long • Accepts all squeezer and dimpling sets with a .187" shank. .....P/N 12-03504 ..... ---

Description	Part No.	Price
Squeezer Yoke 1-1/16"	12-03663	---
Yoke, Longeron	12-03664	---
Squeezer Yoke 1-3/16"	12-03665	---
Squeezer Yoke 1-1/2"	12-03666	---
Squeezer Yoke 1-3/4"	12-03667	---
Squeezer Yoke 2-1/2"	12-03668	---
Squeezer Yoke 2-3/4"	12-03669	---
Squeezer Yoke 3"	12-03670	---
Squeezer Yoke 3-7/8"	12-03671	---
Squeezer Yoke 5-5/8"	12-03672	---
Squeezer Set Assortment, 17pc	12-03673	---

ATS DELUXE HAND/BENCH RIVET SQUEEZER KIT

The Rivet Squeezer Kit is designed to take on any riveting task. It contains the new ATS Heavy Duty Rivet Squeezer, a Bench Mount Kit, plus and extra 1-1/2" yoke head to reach into tight areas. You'll also get a complete set of squeezers and dimple dies in a convenient holder. Ats Pro Lifetime warranty. 14 lbs (6.5Kg) shipping weight ....P/N 12-02406 ..... ---

TO

HANDI-CLAMPS

Handi-Clamps are a specially designed tool for clamping various types of surfaces, shapes and thicknesses. Ideal for holding light plastics, wood, sheet metal and other materials temporarily. The clamping cap is 0-5/16" TP640HC - 1" Jaw Depth .....P/N 12-02305 ..... ---
TP641HC - 1-1/2" Jaw Depth .....P/N 12-02306 ..... ---

SIDE GRIP CLAMPS

Side-Grip clamps are designed to clamp at the edge of the work area. Ideal for holding work pieces of all types, particularly during bonding, sealing or gluing operations. Plier-operated. Spring loaded. Constant clamping force. Color-coded for easy identification. Use TP74 or US902 installation tool. Made in the USA

Part No.	Clamping CAP (GAP)	EFF. Body Depth (Reach)	Body Length	Price
12-01161	0-1/2"	1/2"	2-3/16"	---
12-01162	0-3/4"	1/2"	2-7/16"	---
12-01143	0-1/2"	1"	2-3/16"	---
12-02643	0-3/4"	1"	2-7/16"	---

AT-114C3 QUICK-CHANGE RETAINER SPRING

Makes possible the changing of rivet sets without removal of retainer spring. For .402" shank dia. rivet sets.....P/N 12-01079 ..... **---/ea.**

AT 107A FLUSH RIVET SETS

Large radii at critical points to prevent breakage. Slightly crowned, highly polished face designed for rapid flush riveting where a smooth skin surface is essential. Shank dia. .401".

Part No.	Face Dia.	Length	Price
AT-107A-1	1"	2-3/4"	---
AT-107A-3	1-1/4"	3-3/4"	---

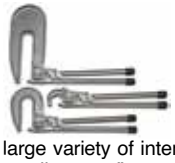
AT 100A STRAIGHT RIVET SETS

Cup surfaces are highly polished and guaranteed to conform with rivet heads. Carried in stock in AN470 (MS20470) universal-head cup shape. Overall length, 3-1/2", .401" dia. centerless-ground shank.
AT-100A-3-3/32.....3/32" ..... ---
AT-100A-3-1/8.....1/8" ..... ---
AT-100A-3-3/16.....3/16" ..... ---

AT 101A OFFSET RIVET SETS

Same tool as AT100A but has 10° bend 1" back from the cup to allow added clearance. Permits easier riveting where obstructions are encountered.
AT-101A-3-3/32.....3/32" ..... ---
AT-101A-3-3/16.....3/16" ..... ---

TATCO HAND RIVET SQUEEZER



This tool was designed and built as a portable low cost solution for both small and large aerospace applications. It is made of aerospace grade stainless steel and heat treated on all wear and deflecting components to 38/42 on the Rockwell Hardness Scale. A large variety of interchangeable yokes are available with ranges from as small as 1.00" to 6.00" reach. It has proven itself over the years as a portable rugged solution, for light to medium duty, rivet squeezing applications.

Model	Dimensions	Part No.	Price
THS-10	1-1/4" Gap x 1" Reach	12-03674	---
THS-15	1-1/4" Gap x 1-1/2" Reach	12-00300	---
THS-20	1-1/4" Gap x 2" Reach	12-03675	---
THS-22	2" Gap x 2" Reach	12-03676	---
THS-25	1-1/4" Gap x 2-1/2" Reach	12-03677	---
THS-30	1-1/4" Gap x 3" Reach	12-03678	---
THS-35	1-1/4" Gap x 3-1/2" Reach	12-03679	---
THS-40	1-1/4" Gap x 4" Reach	12-03680	---
THS-50	1-1/4" Gap x 5" Reach	12-03681	---
THS-100	1" Gap x 2" Reach	12-03683	---
THS-101	1-1/4" Gap x 1-1/2" Reach	12-03684	---

TATCO SQUEEZER YOKES FOR RIVET SQUEEZER

Model	Description	Part No.	Price	Model	Description	Part No.	Price
THY-10	1" Yoke	12-00308	---	THY-40	4" Yoke	12-00322	---
THY-15	1.5" Yoke	12-00309	---	THY-50	5" Yoke	12-00323	---
THY-20	2" Yoke	12-00310	---	THY-100	1" x 2" Yoke	12-03688	---
THY-22	2" x 2" Yoke	12-00315	---	THY-101	No Set Hole	12-03689	---
THY-25	2.5" Yoke	12-00318	---				

SWIVEL HAND RIVET SQUEEZER

This tool incorporates a 3/8" stroke and 5/8" ram adjustment. The full 360° yoke can be locked in any position in relation to the handles. Uses standard squeezer sets with 3/16" shank diameter. Yoke depth: 1-1/2".
Model AT502AH-D .....P/N 12-00400 ..... ---

INSTRUCTIONS FOR SELECTING RIVET SETS

To develop maximum power, the riveter must drive the rivet near the end of the riveter's stroke. For maximum power the combined length of the two rivet sets must be of the correct length. Determine the correct length as follows:

WHEN TWO CUPPED RIVET SETS ARE USED – The sum of the two rivet sets "L" dimension should equal the closed height dimension of the yoke minus the total thickness of the material being used.

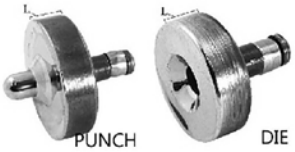
WHEN TWO FLUSH SETS ARE USED – The sum of the two rivet sets "L" dimension should equal the closed height dimension of the yoke minus the overall length of the rivet after it is driven.

WHEN ONE CUPPED SET & ONE FLUSH SET ARE USED – The sum of the two rivet sets "L" dimension should equal the closed height dimension of the yoke minus the total thickness of the material being riveted and the height of the finished rivet head driven by the flush set. If necessary, select rivet sets a little short and shim to proper length with hardened shims listed in the table. The closed height dimension of the yoke referred to above is the opening available when jaws of plunger are in extreme closed or forward position with both rivet sets in place.

RIVET SETS FOR SQUEEZER

Assorted Squeezer Set. 5-piece, consisting of rivet sets for 3/32,1/8 and 5/32" AN470 rivets, and one flat set. Shank dia. 3/16".....P/N 26-5 ..... ---

DIMPLING SETS FOR SQUEEZER



When ordering, specify: Basic Part No. - Rivet Size No. - Body Length, Letter. P/N PER SET 1 PUNCH 1 DIE

Part No.	Price
207/206-3-P	---
207/206-3-R	---
207/206-3-S	---
207/206-4-P	---
207/206-4-R	---
207/206-4-S	---
207/206-5-P	---
207/206-5-R	---
207/206-6-P	---
207/206-6-R	---
207/206-6-S	---

FASTENER AN 426 RIVET

SIZE	3/32	1/8	5/32	3/16
DASH NO.	-3	-4	-5	-6
BODY LENGTH	1/4	3/8	1/2	
AFTER DASH NO.	-P	-R	-S	

INDIVIDUAL CUPPED SQUEEZER SETS

Rivet Diameter	Body Length ("L" Dim.)	Part Number	Price
3/32"	3/8	AT108AR-3/32	---
3/32"	1/4	12-01661	---
3/32"	1/8	AT108AN-3/32	---
3/32"	1/2	AT108S-3/32	---
1/8"	1/8	AT108AN-1/8	---
1/8"	1/4	12-01660	---
1/8"	1/2	AT108S-1/8	---
1/8"	3/8	AT108AR-1/8	---
3/16"	1/4	12-02680	---
3/16"	1/2	AT108S-3/16	---
3/16"	3/8	AT108AR-3/16	---
3/16"	1/8	AT108AN-3/16	---
5/32"	1/4	12-01662	---
5/32"	3/8	AT108AR-5/32	---
5/32"	1/8	AT108AN-5/32	---
5/32"	1/2	AT108S-5/32	---

FLUSH RIVET SETS

Body Length ("L" Dim.)	Part No.	Price
1/8"	AT109AN	---
3/8"	AT109AR	---
1/2"	AT109AS	---

COUNTERSINK CUTTERS

DIMPLE DIE SETS

The "Spring back" dimple dies are the best-designed dimple dies on the market today. These 100 degree dies are designed to greatly reduce deflection of the sheet metal. This stainless steel tool is built for years of quality service. The 3/16" shaft enables use in most pneumatic and hand squeezes.

#6 Male/Female #6 Screw.....P/N 12-05535 ..... ---
#8 Male/Female #8 Screw.....P/N 12-05536 ..... ---
3/16" Male/Female AN426.....P/N 12-05537 ..... ---

ATS ADJUSTABLE SQUEEZER RAM

Adjustable ram eliminates the need for shims. Simply rotate the set holder until the desired clearance is reached and begin riveting. Made of hardened high strength steel and polished to minimize surface wear.

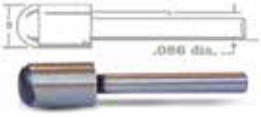
P/N 12-04968 ..... ---

100° AT455 COUNTERSINK CUTTER

Designed for operating in angle drills with 1/4-28 threads and in the AT441SLS Micro Stop Countersink. Has 1/4-28 threaded shank. Cutter angle 100°. AT455D-4 has 7/16" dia. cutter head. Use with AT484 pilots.

P/N AT455D-4 ..... ---

AT484 PILOTS



AT484 replaceable pilots have a .086" dia. shank with a flat to accommodate the set screw of the AT455 cutter. An undercut permits the head to seat on the cutter angle. Order by P/N ..... **--- ea.**

Part No.	Head Dia. "D"	Part No.	Head Dia. "D"
AT484-2	#40	AT484-56	3/32
AT484-12	#30	AT484-57	1/8
AT484-21	#21	AT484-59	5/32
AT484-31	#11	AT484-61	3/16
AT484-32	#10	AT484-63	7/32

AT441 HSS MICROSTOP COUNTERSINK

AT441 HS Micro Stop Countersink, similar to the AT442SLS unit, except with 1/4-28 female threaded nose to accommodate AT455 cutter.

P/N 12-01591 ..... ---

FLUSH RIVET SET WITH RUBBER RING

Features a rubber ring around the face to reduce slippage and to prevent damage to aircraft skin. Face Diameter: 1 1/4". Shank: 0.401.

Rivet Set ..... P/N 12-03361..... ---
Replacement Rubber Ring... P/N 12-03362..... ---

MICRO-STOP COUNTERSINK CAGES AND NYLONFOOT PIECE

2 Models available-one with NEEDLE bearing and one with BRONZE bushings. .001" increment depth adjustment. Positive adjustment lock. 1/4" dia. shank. 9/32" shaft travel. 9/16" cutter capacity. For 1/4-28 threaded cutters. Comes with "NO-MAR" foot piece. Rated at 3,000 RPM. Made in USA.

with Bronze Bushings ..P/N 12-01412 ..... ---
with Needle Bearings...P/N 12-00940 ..... ---

AT 409 SERIES STRAIGHT SHANK COUNTERSINK WITH INTERCHANGEABLE CUTTERS AND PILOTS

Assembly, consists of AT418E (1/2") cutter, AT416 pilot and AT409-1, 1/4" straight-shank. Has a collet-type shaft to securely hold the replaceable pilot.

When ordering specify: Part number of cutter and pilot dia.

Assembly Example: AT409 with 100° cutter A418E & 1/8 pilot. (AT416-57) Adapter only

P/N AT409-1..... ---

AT418 STOP COUNTERSINK CUTTERS

Three-straight flute replaceable pilot cutters with female thread. These cutters are designed with extra deep flute to permit numerous resharpenings and radial clearance to assure fast smooth cutting.

For Replaceable Pilots Refer to AT416 Series.Used With AT418

Part No.	Cutter Dia.	Thread Size	Pilot Hole	Price
AT418A-4	1/4"	1/4 - 28	.086	---
AT418D-4	7/16"	1/4 - 28	.086	---
AT418E-4	1/2"	1/4 - 28	.086	---

120° AT418 COUNTERSINK CUTTER

Same type cutter as described above except with 120° Cutter Angle. 7/16" Cutter Diameter.

P/N AT418D-7 ..... ---

AT416 PILOTS

Fit AT418 cutters. Undercut permits head to seat on cutter angle. Order by Part No. in table below.

Order by part Number. .....**--- Ea.**

Part No.	Head Dia. "D"	Part No.	Head Dia. "D"
AT416-2	#40	AT416-56	3/32
AT416-12	#30	AT416-57	1/8
AT416-21	#21	AT416-59	5/32
AT416-31	#11	AT416-61	3/16
AT416-32	#10	AT416-63	7/32
		AT416-65	1/4

COUNTERSINK SETS

Countersinks made of high-speed steel, 3-fluted and 14" - 28 threaded. Set includes #40, #30, #21, #10, and 1/4".

Countersink 82 degree 5 pc. set.....P/N 12-02883 ..... ---
Countersink 120 degree 5 pc. set.....P/N 12-02884 ..... ---

SNAP SOC RIVET SET CAPS

Insert these caps onto the ends of your rivet sets to provide a protective zone between the rivet set and the rivet. Helps to prevent against damage to the rivet or adjoining aircraft skin. Color coded for easy use. Each cap lasts for approximately 50-70 rivets. **Note: Rivet Set pictured is not included.**

Color	Size	Part No.	Price
White	3/32"	12-03363	---
Green	5/32"	12-03365	---
Yellow	3/16"	12-03366	---
Blue	1/4"	12-03367	---

DIE GRINDER MANDREL

Die Grinder Arbor (Mandrel). Holds your cutoff wheels. It has a 1/4" shank for use in most drills and die grinders. Can accomadate either 1/4" or 3/8" cutoff wheel through hole sizes. P/N 12-02924 .....

TO

HAND SEAMER

Handy tools for comparatively light work. Wide, deep jaws machined for smooth parallel fit. Form precise folds and seams. Strong, lasting drop-forged steel construction. No. 44 has plain 3 1/2" wide blades. No. 44r is similar with a radius to prevent tearing of aluminum and other light metals. No. 793 has a 3 1/2" wide blade with adjustable depth gauge.

P/N 12-00620 ..... ---

HAND SEAMER

Makes permanent, tight fitting seams. Strong, lasting construction. Jaw Size: 1" D x 3-1/2" W. Overall Length: 8" (203 mm). Weight: 1.1 lbs (0.5 kgs) .....P/N 12-03751 ..... ---

ROPER-WHITNEY NOTCHER

Designed for fast, accurate 32° notch in sheet metal. Hook design of jaws permits notching to exact desired depth without slippage. Spring-return jaws. Capacity 20 ga. Wt. 1 lb.

P/N 141 ..... ---

HOLE FLANGING TOOL

A real time saver for flanging lightening holes. Non-marring. Easy to use. Nylon rollers and ball bearings assure long life...P/N 12-00600 ..... ---

PRO PNEUMATIC C DOUBLE FORCE SQUEEZER

The ATS Tandem C-Squeezer incorporates two pistons to deliver twice the force of a standard squeezer at the same air pressure. Its lightweight, compact, and efficient design is modeled after the industry standard Chicago Pneumatic 0214-C squeezer. The parts are completely interchangeable, and it will accept any jaws and accessories compatible with the 0214-C. With enough force to squeeze up to 3/16" solid aluminum, or 5/32" mild steel rivets, this riveter will easily fit most of your riveting needs without breaking your budget.

P/N 12-04980 ..... ---

ATS DUAL SUPER DUTY RIVET SQUEEZER

The Dual Squeezer Kit features a whole 3" squeezer! Included in the kit is a Stainless Steel Rivet Squeezer with a 1 1/2" yoke, as well as 3" yoke. ATS also includes a 17 piece dimple die set, and rivet gauges to get the job done right. Finally, all of this comes in a custom foam lined case.

P/N 12-05451 ..... ---

ATS FIELD RIVETING KIT (2X)

The ATS Pro Field Kit features the line tools. In it you get the best-selling Palm Drill (featuring a true variable speed trigger from 0 to 2600 RPM), plus an assortment of cobalt drill bits in the 4 most commonly use sizes (#40, #30, #21, and #12). For perfect riveting jobs, ATS gives you the top of the line Pro Rivet Gun with feather trigger (including springs), two of the most popular Tungsten bucking bars, and a full set of riveting snaps. ATS has even thrown in a set of rivet gauges to make sure you get things right, and a bottle of oil to keep those tools running at peak performance. It all comes to you in a quality shadow-foamed hard tool case, making this the kit you will want to show off!

Black.....P/N 12-05448 ..... ---

ROPER-WHITNEY METAL PUNCH

#5 JR. HAND PUNCH

with one ton punching power. Punches 1/4" hole through 16 Ga. mild steel. Throat clearance 1-3/4". Complete set in metal box with 3/32, 1/8, 5/32, 3/16, 7/32, 1/4 and 9/32" punches & dies. Wt. 4-1/4 lbs .....P/N 12-01600 ..... ---

BENCH MOUNT BASE

For stationary use. Base swivels to any position. Punch is held by L-shaped clamp rod through a 7/16" or larger hole in bench.....P/N 12-01700 ..... ---

STRAIGHT PUNCH & DIE SETS

for No. 5 Jr. punch in the seven sizes shown below.

Size	Part No.	Price
3/32"	12-01800	---
1/8"	12-01900	---
5/32"	12-02000	---
3/16"	12-02100	---
7/32"	12-02200	---
1/4"	12-02300	---
9/32"	12-02400	---

ORIGINAL LANCASTER PORTO-METAL FORMER

The Porto-Metal Former makes the specialty angle needed in minutes. Can be used on the work bench or in a vise to make inside angles, outside angles, straight bends - even circles, to a radius as small as 3". Jaws are made of hardened alloy steel. Works 18 gauge soft steel, 20 gauge stainless, 16 gauge aluminum up to 2" in width. 45 to 1 leverage for powerful press. Special malleable iron body will not break as we have found with cheaper imitations. Order #LSH-71 metal shrinker for inside angles. Order #LST-82 stretcher for outside angles. Wt. 12 lbs. each.

#LSH-71 Shrinker.....P/N 12-19800 ..... ---
#LST-82 Stretcher.....P/N 12-19900 ..... ---
Combination Shrinker/Stretcher Tool.....P/N 12-02950 ..... ---

Either unit can be converted into its opposite by ordering complete conversion kit, includes jaws, blocks & wire.

SKYBOLT SK2018 SET COMPLETE ZLOC ASSEMBLY WITH DIES

Skybolt SK2018 SET Complete ZLOC Assembly with dies. **In The Box**: • SK2018C Clamp • 9 Zloc Die Sets • Press Adapter • Dimple Tool Adapters.

P/N 04-04102 ..... ---

HAND PADS

Faster, cleaner, and more durable than wire brushes, scrapers and sandpaper. Non-woven nylon pads are pre-cut. They provide conformable, consistent finishes. General Purpose and Ultra Fine Pads may be used with lubricants and solvents. **General Purpose** • Clean up dirty parts in solvent tank • Light corrosion removal on steel and aluminum parts **Commercial** • An aggressive hand pad for waterbased products only • Not to be used with solvents. •Heavy duty rust removal and general cleanup • **Ultra Fine** • For scuffing in new rod and main bearings. Light corrosion removal on steel and aluminum parts.

Description	Size	Grain	Color	Qty.	Part No.	Price
General Purpose	6" x 9"	A/O	Maroon	1 each	12-00861-1	---
Ultra Fine	6" x 9"	S/C	Gray	1 each	12-00862	---
Heavy Duty	6" x 9"	A/O	Tan	40 pack	12-00864	---
Hand Pad Holder	-	-	Orange	1 Hand Pad Holder, 4 Sanding Pads	12-00865	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

HYDRO-SHIFT CHERRYLOCK® RIVETER

Specifically for the installation of all CherryLOCK® Rivets. Recommended primarily for 1/4" diameter CherryLOCK® rivets. It can be used to install all diameters and lengths as indicated on the tool capacity charts. Low recoil, low noise and a comfortable fit in the operator's hand. It can be operated in any position with one hand. The H681 Series pulling heads fit directly on this tool to install both bulbed and standard NAS type 2000 Series CherryLOCK® Rivets. With the proper adapters and pulling heads, this tool can install other types of rivets.....P/N 12-02983 ..... ---

LOCKBOLT POWER RIVETER G84

For high speed, reliable installation of the most popular sizes of aircraft Lockbolts. Incorporates a bayonet attachment for quick change of pulling heads. This tool can also be used to install blind bolts and blind rivets. A comfortable grip for one handed operation in any position. Compatible with Huck 352 & 230 riveter pulling heads. .....P/N 12-03011 ..... ---

LOCKBOLT POWER RIVETER TOOL KIT G84LBK

Installs: 5/32", 3/16" & 1/4" NAS Style. LockBolt **Includes**: G84 LockBolt Power Riveter - Stroke: 9/16", Pulling Force: 5, 750 lbs (2,608 kgs), Weight: 7.7 lbs (3.5 kgs). H513-08-35 Pulling Head. H513S-05-20 Pulling Head Cherry 5/32" D LockBolt. H513S-06-20 Pulling Head MaxiBolt 3/16" LockBolt. P1395 Molded Carrying Case. 269C5 Grip Gauge LockBolt. 670A20 Stem Catcher Bag. 700A77 Bleeder Bottle. All Necessary Manuals.

P/N 12-03013 ..... ---

CHERRY RIVETER SERVICE KIT G84KS

All the seals, 'O'-rings, gaskets and hardware required for routine maintenance of your Cherry blind riveters. A must for any in-house repair facility. For Tool G84.

P/N 12-03012 ..... ---

LIGHTWEIGHT LOCKBOLT RIVETER TOOL KIT G83AKT

Installs: 5/32" & 3/16" MS Blind Bolt & LockBOLT, 1/8", 5/32" & 3/16" Cherry MAX **Includes**: G83 Lightweight LockBolt Hand Riveter - Stroke: 7/16", Pulling Force: 3, 750 lbs (1, 701 kgs), Weight: 4.95 lbs (2.3 kgs). H513S-05-20 Pulling Head Cherry 5/32" D LockBolt. H513S-06-20 Pulling Head 3/16" LockBolt. H701B-456 Pulling Head Straight 3/4" x 1 3/4". H753A-4562 CherryMAX Pulling Heads RT Angle 2 1/4" x 5 7/16" x 3/8". H781-456 Cherry Pulling Head Offet 1/8"-5/32"-3/16". H83B-5MB Pulling Head MaxiBolt 5/32"D. H83B-6MB Pulling Head MaxiBolt 3/16" D G83/G84. P1393 Plastic Box. 269B12 Maxibolt Gauge. 269C3 CherryMAX Grip Gauge. 269C5 Grip Gauge LockBolt. 670A20 Stem Catcher Bag. 700A77 Bleeder Bottle. 744-300 Adapter. All Necessary Manuals

P/N 12-03008 ..... ---

LIGHTWEIGHT LOCKBOLT RIVETER TOOL KIT G83BKT

Installs: 5/32" & 3/16" MS Blind Bolt & NAS Style LockBolt Includes: G83 Lightweight LockBolt Hand Riveter - Stroke: 7/16", Pulling Force: 3, 750 lbs (1, 701 kgs), Weight: 4.95 lbs (2.3 kgs). H513S-05-20 Pulling Head Cherry 5/32" D LockBolt. H513S-06-20 Pulling Head 3/16" LockBolt. H83B-5MB Pulling Head MaxiBolt 5/32"D. H83B-6MB Pulling Head MaxiBolt 3/16" D G83/G84. P1393 Plastic Box. 269B12 Maxibolt Gauge. 269C5 Grip Gauge LockBolt. 670A20 Stem Catcher Bag. 700A77 Bleeder Bottle. All Necessary Manuals. .....P/N 12-03009 ..... ---

CHERRY RIVETER SERVICE KIT G83KS

All the seals, 'O'-rings, gaskets and hardware required for routine maintenance of your Cherry blind riveters. A must for any in-house repair facility. For Tool G83.

P/N 12-03010 ..... ---

LIGHTWEIGHT LOCKBOLT RIVETER G83

Designed for high speed, reliable installation of the most popular sizes of aircraft Lockbolts. By bending the rubber pin deflector sideways, 1-1/2" additional clearance can be obtained. This tool can also be used to install blind bolts and blind rivets. A comfortable grip for one handed operation in any position. Compatible with Huck 352 & 230 riveter pulling heads. Stroke: 7/16". Pulling Force: 3, 750 lbs (1, 701 kgs). Weight: 4.95 lbs (2.3 kgs) .....P/N 12-03007 ..... ---

CHERRY RIVETER SERVICE KIT G800KS

All the seals, 'O'-rings, gaskets and hardware required for routine maintenance of your Cherry blind riveters. A must for any in-house repair facility. For Tool G800.

P/N 12-03006 ..... ---

CHERRYMAX HYDRAULIC HAND RIVETER G800

The G800 is an ergonomic, lightweight hand powered riveter capable of installing a wide variety of blind fasteners. The all metal design makes this compact and robust tool ideal for use in rugged shop environments or field repair. Exceptional power with low hand effort for increased productivity. Mounting system (same as G704B) compatible with popular pulling heads including H782, H781-456& H753A-456. Leak-proof design with advanced seals & built-in redundancies. Ergo design with internal shock absorber & cushioned handle. Adjustable lever easily accommodates different hand sizes. Stroke: 3/4". Pulling Force: Up to 6000 lbs. Weight: 1.7 lbs (0.8 kgs) .....P/N 12-03004 ..... ---

CHERRYMAX HYDRAULIC HAND RIVETER KIT G800CMR

G800CRM CherryMAX Hydraulic Hand Riveter Kit Includes: G800 CherryMAX Hydraulic Hand Riveter - Stroke 3/4", Pulling Force up to 6000 lbs, Weight 1.7 lbs. H781-456 Pulling Heads. H753A-456 Pulling Heads. 269C5 Grip Selector Gauge. 269B12 Grip Selector Gauge. Molded Plastic Case. All Necessary Manuals (except -6 all aluminum)

P/N 12-03005 ..... ---

CHERRY RIVETER SERVICE KIT G784KS

All the seals, 'O'-rings, gaskets and hardware required for routine maintenance of your Cherry blind riveters. A must for any in-house repair facility. For Tool G784.

P/N 12-03002 ..... ---

NUT-PLATE RIVETER G702A

The G702A is a pneumatic-hydraulic tool designed specifically for installation of nut plate rivets. Its durable, all metal housing makes this tool ideal for use in rugged shop environments. The H702-3NPR pulling head fits directly on the tool to install -3, -4, 2.5 mm & 3mm nut plate rivets. 10° angled head allows user to work using a natural hand position. A comfortable grip for one handed operation in any position. Air Pressure: 90 PSI (6.2 bar) min./110 PSI (7.6 bar) max. Cycle Time: approximately one second. Noise Level: 71 dB (A). Vibration: less than 2.5 m/s2. Air Consumption: .09 SCF / cycle (2.55 L / cycle). Stroke: 3/4". Pulling Force: 1,100 lbs (499 kgs). Weight: 3.5 lbs. .....P/N 12-02985 ..... ---

CHERRYLOCK POWER RIVETER KIT G784CLRB

Includes: G784 Cherry Universal Power Riveter 12" High, 8 lbs., 15/16" Stroke. P1395 Molded Carrying Case. TLC852 CherryLock Selector Card. TLC864 CherryLock Process Manual. 269C3 CherryMAX Grip Gauge. 700A77 Bleeder Bottle. **Note**: No Pulling Heads Included.

P/N 12-03001 ..... ---

CHERRYLOCK POWER RIVETER G784

Installation of CherryLOCK rivets. Will install nearly all diameters of CherryLOCK rivets up to a half-inch grip, 'A' group only. With proper adapters & pulling heads this tool can be used to install other types of rivets. A comfortable grip for one handed operation in any position. Pulling heads not included with riveter. Air Pressure: 90 PSI (6.2 bar) min./110 PSI (7.6 bar) max. Noise Level: 69.7 dB (A). Vibration: less than 2.5 m/s2. Air Consumption: .27 SCF / cycle (7.65 L / cycle). Stroke: 7/8". Pulling Force: 2,600 lbs (1, 179 kgs). Weight: 8 lbs (3.6 kgs) .....P/N 12-02998 ..... ---

POWER RIVETER G747

Installation of CherryMAX and nut plate rivets. This tool utilizes straight, offset and right angle pulling heads, all of which can install -4, -5 and -6 diameter CherryMAX bulb type rivets in all head styles, materials and grip lengths. Extensions are available for extending the pulling heads to reach limited access areas. 10° angled head allows user to work using a natural hand position. A comfortable grip for one handed operation in any position. Same weight as the G702A, with the power of much larger tools .....P/N 12-02995 ..... ---

CHERRY RIVET TOOLS

CHERRYLOCK POWER RIVETER KIT G784CLRA

Installs: 1/8" to 3/16", NAS 1398/9. Type & Cherry Lock. **Includes**: G784 Cherry Universal Power Riveter 12" High, 8 lbs., 15/16" Stroke. H681-4C CherryLock H681Pulling Heads Dia. 1/8" Dim. A=.208 B=.341. H681-5C CherryLock Pulling Head 5/32" D. H681-6C CherryLock H681 Pulling Heads Dia. 3/16" Dim. A=.335 B=.386. P1395 Molded Carrying Case. TLC852 CherryLock Selector Card. TLC864 CherryLock Process Manual. 269C3 CherryMAX Grip Gauge. 700A77 Bleeder Bottle.

P/N 12-02999 ..... ---

CHERRY RIVETER SERVICE KIT G747KS

All the seals, 'O'-rings, gaskets and hardware required for routine maintenance of your Cherry blind riveters. A must for any in-house repair facility. For Tool G747.

P/N 12-02996 ..... ---

CHERRY RIVETER SERVICE KIT G746KS

All the seals, 'O'-rings, gaskets and hardware required for routine maintenance of your Cherry blind riveters. A must for any in-house repair facility. For Tool G746A.

P/N 12-02994 ..... ---

CHERRY RIVETER SERVICE KIT G704KS

All the seals, 'O'-rings, gaskets and hardware required for routine maintenance of your Cherry blind riveters. A must for any in-house repair facility. For Tool G704B.

P/N 12-02990 ..... ---

CHERRY RIVETER SERVICE KIT G689KS

All the seals, 'O'-rings, gaskets and hardware required for routine maintenance of your Cherry blind riveters. A must for any in-house repair facility. For Tool G689.

P/N 12-02984 ..... ---

BLIND BOLT RIVETER TOOL KIT G84-MBK

Installs: 5/32", 3/16" & 1/4" MS Blind Bolt
Includes: • G84 Power Riveter Cherry- Stroke: 9/16", Pulling Force: 5, 750 lbs (2,608 kgs), Weight: 7.7 lbs (3.5 kgs) • H83B-5MB Pulling Head MaxiBolt 5/32" D • H83B-6MB Pulling Head MaxiBolt 3/16" D G83/G84 • H84A-8MB Pulling Head MaxiBolt 1/4" D G84 • P1395 Molded Carrying Case • TLC872 Cherry Maxibolt Card • 269B12 Maxibolt Gauge • 670A20 Stem Catcher Bag • 700A77 Bleeder Bottle.

P/N 12-03015 ..... ---

CHERRYMAX POWER RIVETER KIT G747CMR

Installs: NAS 9301 to 9312 (1/8" to 3/16"). MS90353/4. MS21140/1. TAF "S" TYPE (1/8" & 5/32"). MS20604/5 (3/32"). **Includes**: G747 Cherry Lightweight - Installs CherryMAX Rivets. H701B-456 Pulling Head Straight 3/4" x 1-3/4". H747-3NPR Pulling Head. H753A-456 CherryMAX Pulling Heads RT Angle 2-1/4"X5-7/16"X3/8". H781-456 Cherry Pulling Head Offet 1/8"-5/32"-3/16". P1393 Plastic Box. 269C3 CherryMAX Grip Gauge. 670A20 Stem Catcher Bag. 700A77 Bleeder Bottle. All Necessary Manuals .....P/N 12-02997 ..... ---

CHERRY POWER RIVETER KIT G746ACMRB

Installs: -4, -5, -6 CherryMAX. **Includes**: G746A Power Riveter Cherry 1/8",5/32",3/16" "A" Rivets. H701B-456 Pulling Head Straight 3/4" x 1-3/4". H753A-456 CherryMAX Pulling Heads RT Angle 2-1/4"X5-7/16"X3/8". H781-456 Cherry Pulling Head Offet 1/8"-5/32"-3/16". P1393 Plastic Box. 269C3 CherryMAX Grip Gauge. 670A20 Stem Catcher Bag. 700A77 Bleeder Bottle. All Necessary Manuals. .....P/N 12-02992 ..... ---

CHERRYLOCK POWER RIVETER KIT G746ACMRW

Installs: SST & -3, -4, -5, -6. CherryLock 'A'. **Includes**: G746A Power Riveter Cherry 1/8",5/32",3/16" "A" Rivets. H955-3 Pulling Head. H955-4 Pulling Head H955-5 Pulling Head. H955-6 Pulling Head. P1393 Plastic Box. 269C3 CherryMAX Grip Gauge. 670A20 Stem Catcher Bag. 700A77 Bleeder Bottle. All Necessary Manuals .....P/N 12-02993 ..... ---

CHERRY POWER RIVETER KIT G704BCMR

Installs -4, -5, -6 CherryMax. **Includes**: 6704B Power Riverter - Cap = 1/8-3/16" Wt. = 4 1/2 lbs. H701B-456 Pulling Head Straight 3/4" x 1-3/4". H753A-456 CherryMAX Pulling Heads RT Angle 2-1/4"X5-7/16"X3/8". H781-456 Cherry Pulling Head Offet 1/8"-5/32"-3/16". P1393 Plastic Box. TLC816 CherryMAX Process Manual. TLC865 CherryMAX Selector Guard. 269C3 CherryMAX Grip Gauge. 670A20 Stem Catcher Bag. 700A77 Bleeder Bottle .....P/N 12-02988 ..... ---

CHERRY CHERRY HAND NIPPER

Used for flush trimming Cherry rivets.

P/N 12-02977 ..... ---

GRIP GAUGE LOCKBOLT

Cherry Grip Gauge Lockbolt. Material thickness & grip.... P/N 12-02979 .....

MAXIBOLT GRIP GAUGE 269B12

Cherry Maxibolt Grip Gauge 269B12.

P/N 12-02978 ..... ---

CHERRYMAX GRIP GAUGE

Rivet Grip & Diameter Gauge.

P/N 12-00217 ..... ---

POWER RIVETER G746A

Pneumatic-hydraulic tool designed specifically for installation of CherryMAX Bulb, CherryMAX 'AB' wiredraw and CherryLOCK 'A' wiredraw rivets. Ideal for use in rugged shop environments. This tool utilizes straight, offset and right angle pulling heads. A comfortable grip for one handed operation in any position. Stroke: .875". Pulling Force: 1,850 lbs (839 kgs). Weight: 4.25 lbs (1.9 kgs) ..... P/N 12-02991 ..... ---

G84-LS SPLIT POWER RIVETER

Designed for high-speed, reliable installation of the most popular sizes of blind rivets, lockbolts and blind bolts. Fastener installation in many limited access areas and also reduces operator fatigue. This tool installs all Lockbolt, blind bolts and blind rivets to 1/4" diameter, as well as Cherry rivetless nut plate in all sizes. Stroke: 0.53". Pulling Force: 5700 lbs (2608 kgs). Weight: 11.8 lbs (5.4 kgs)..P/N 12-03014 ..... ---

LOCKBOLT HEAVY-DUTY POWER RIVETER G87D

Heavy-duty production tool designed for high speed, reliable installation of the most popular sizes of aircraft Lockbolts. Ideal for use in rugged shop environments. By bending the rubber pin deflector sideways, 1-1/2" additional clearance can be obtained. This tool can also be used to install blind bolts and blind rivets. Stroke: 9/16". Pulling Force: 9,500 lbs (4,309 kgs). Weight: 10.75 lbs (4.9 kgs)

P/N 12-03016 ..... ---

SPLIT POWER RIVETER G704B-40SH

Installation of CherryMAX rivets in applications with extremely limited access. Equipped with an 8 foot hose. Pulling heads not included with riveter. Hose Length: 8'. Stroke: .518". Pulling Force: 3136 lbs (1423 kgs). Weight: 4.5 lbs (2.0 kgs) (power unit only).....P/N 12-02987 ..... ---

SPLIT POWER RIVETER G704B-SR

Designed specifically for the installation of CherryMAX rivets in applications with extremely limited access. Equipped with an 3 foot hose. Pulling heads not included with riveter. Hose Length: 3'. Stroke: .518". Pulling Force: 3136 lbs (1423 kgs). Weight: 4.5 lbs (power unit only)..... P/N 12-02989 ..... ---

NUT-PLATE RIVETER G902 (FEED THROUGH)

All-pneumatic tool designed specifically for installation of nut plate rivets. This tool utilizes straight pulling heads which can install 3/32" and 1/8" pull-through type nut plate rivets and 3/32" CherryLOCK 'A' rivets. Stroke: 3/4". Pulling Force: 550 lbs (250 kgs). Weight: 2 lbs (0.9 kgs)

P/N 12-03017 ..... ---

NUT-PLATE RIVETER G902-15 (SIDE EJECT)

The G902-15 (side eject) is an all-pneumatic tool designed specifically for installation of nut plate rivets. This tool utilizes straight pulling heads which can install 3/32" and 1/8" pull-through type nut plate rivets and 3/32" CherryLOCK 'A' rivets. Stroke: 3/4". Pulling Force: 550 lbs (250 kgs). Weight: 2 lbs (0.9 kgs) .....P/N 12-03018 ..... ---

CHERRY HAND RIVETER G30

Pulling head is integral part of tool. Great in areas with limited access or power limitations. The G30 is an efficient, compact and lightweight tool for installing Cherry LOCK 'A' rivets. Overall length: 9 1/4" (23.5cm). Weight 0.8 lbs.. .....P/N 12-02982 .....

CHERRYLOCK POWER RIVETER TOOL KIT G784KT

Includes: • G784 CherryLock Power Riveter - Stroke: 7/8", Pulling Force: 2,600 lbs (1, 179 kgs), Weight: 8 lbs (3.6 kgs) • B36B740 Valve Spring Installation Tool • B37B740 Valve Sleeve Removal Tool • 74DA43 Shift Piston Tool • 680A114 Seal Guide • 680A114 1 1/2" End Cap Socket Wrench • 680A48/49 Clamp Wrench • 700B65 Packing Plug Wrench • 740A43 Power Cylinder Tool • 700A61 Piston Rod Wrench • P1178 Valve Plug Extractor • 700A60 Seal Guide ..P/N 12-03003 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CHERRY PULLING HEADS

PULLING HEAD FOR CHERRYLOCK® A-RIVETS H9055

STEM SIDE EJECTION: H9055 series pulling heads are available for installation of 3/32", 1/8", 5/32" and 3/16" diameter locked spindle CherryLOCK® 'A' code rivets in all materials, head styles and grip lengths. Stems are ejected from the side of the pulling head.

H9055-3: 3/32" ..... P/N 12-03132 ..... ---
H9055-4: 1/8" ..... P/N 12-03133 ..... ---
H9055-5: 5/32" ..... P/N 12-03134 ..... ---
H9055-6: 3/16" ..... P/N 12-03135 ..... ---

CHERRY® MS STRAIGHT PULLING HEADS H9040

Cherry MS Straight Pulling Heads - H9040 Series.

H9040-4C ..... P/N 12-03127 ..... ---
H9040-5C ..... P/N 12-03128 ..... ---
H9040-6C ..... P/N 12-03129 ..... ---
H9044-8C ..... P/N 12-03130 ..... ---

OFFSET MAXIBOLT PULLING HEAD H856-6MB

Maxibolt Pulling Head. Offset head style. Maxibolt Diameters: 3/16".

P/N 12-03112 ..... ---

CHERRY® NUT PLATE PULLING HEADS H902

These pulling heads fit directly onto Cherry G902 and G746A Power Riveters.

Cherry P/N	Rivet Dia. Inches	Part No.	Price
H902-3NPR	-3 (3/32")	12-03125	---
H902-4NPR	-4 (1/8")	12-03126	---

CHERRY® FLUSH STYLE PULLING HEADS H9015

Flush style pulling heads will install both universal and countersunk rivets. These pulling heads fit directly onto Cherry G902-15 riveters.

H9015-3C ..... P/N 12-03121 ..... ---
H9015-4C ..... P/N 04-01515 ..... ---
H9015-5C ..... P/N 12-03123 ..... ---
H9015-6C ..... P/N 12-03124 ..... ---

PULLING HEADS FOR CHERRYLOCK A-RIVETS H955

The H955 Series pulling heads fit directly on the G701A, G704B, G746A and G747 riveters. The heads in this series are capable of installing 3/32", 1/8", 5/32" and 3/16" diameter rivets in all materials and head styles and grip lengths. Stems feed through the pulling head and are ejected out the back of the tool.

H955-3: 3/32" ..... P/N 12-03136 ..... ---
H955-4: 1/8" ..... P/N 12-03137 ..... ---
H955-5: 5/32" ..... P/N 12-03138 ..... ---
H955-6: 3/16" ..... P/N 12-03139 ..... ---

COMPACT UNIVERSAL HEAVY DUTY PULLING HEAD HD800

Description	Part No.	Price
HD800-6MB Installs Maxibolt -6 "S" type Cherry	12-03140	---
HD800-6MBU Installs Maxibolt -6 "U" type / "S" type AFS	12-03141	---
HD800-8MB Installs Maxibolt -8 "S" type	12-03144	---
HD800-8MBU Installs Maxibolt -8 "U" type	12-03145	---
HD800 Installs CherryMAX "AB" -8 (all materials) 8 Dia. MB Plus	12-03142	---
HD800-8A Installs Cherrylock "A" code	12-03143	---

CHERRY OFFSET PULLING HEAD H782

The Cherry® brand H782 is a new universal, off-set pulling head capable of installing a broad variety of pull-type fasteners. Its strength, light weight and compact dimensions make it ideal for a diverse range of applications including restricted spaces. The H782 is capable of installing CherryMAX rivets, CherryLOCK 'A' code rivets, MaxiBolt 'S' type blind bolts, MBC rivets, SPR rivets, NAS1398 A & AB code products, MS90353/4, MS21140/1, 4, 5, NAS1719, 1720 & 1721 and pull-through type nut plate rivets. **Note**: Uses CherryMAX mounting system (G704B, G746A, G747). ..... P/N 12-03091 ..... ---

MAXIBOLT STRAIGHT PULLING HEADS

For use with G83 & G84 tools. For use with Cherry shift washer type only.

H83B-6MB ..... P/N 12-03101 ..... ---
H84A-8MB ..... P/N 12-03107 ..... ---
H84C-8MB ..... P/N 12-03110 ..... ---

MAXIBOLT PULLING HEAD H84B-568

Maxibolt Pulling Head. Straight head style. Maxibolt Diameters: 5/32", 3/16".

P/N 12-03109 ..... ---

MAXIBOLT PULLING HEAD (S TYPE) H744

Cherry P/N	Head Style	MaxiBolt Dia.	Part No.	Price
H744-5MB	Straight	5/32"	12-03085	---
H744-6MB	Straight	3/16"	12-03086	---

MAXIBOLT U-TYPE PULLING HEAD

Pulling heads to install "U" type Maxibolts®. Will fit G83 or G84-LS (w/744-700 adaptor).

H83B-5MBU ..... P/N 12-03099 ..... ---
H83B-6MBU ..... P/N 12-03102 ..... ---
H84A-8MBU ..... P/N 12-03108 ..... ---
H84C-8MBU ..... P/N 12-03111 ..... ---

MAXIBOLT® PULLING HEAD (S TYPE) H652-8MB

Cherry MaxiBolt Pulling Head (S Type): Head Style - Straight, MaxiBolt Diameter - 1/4"

P/N 12-03067 ..... ---

MAXIBOLT RIGHT ANGLE PULLING HEAD H828

This pulling head aids installation of MAXIBOLTs in limited access applications. For use with G744 tool. For use with Cherry shift washer type only. Use 744-200 adapter for G83/G84.

Cherry P/N	Head style	Rivet Dia. Inches	Part No.	Price
H828-5MB	Right Angle	5/32"	12-03094	---
H828-6MB	Right Angle	3/16"	12-03095	---
H828-8MB	Right Angle	1/4"	12-03097	---

RIGHT ANGLE PULLING HEAD H690-4C

H690-4C pulling head. 1/8" rivet diameter. Countersunk Head.

P/N 12-03082 ..... ---

PULLING HEAD FOR CHERRYLOCK® "A" CODE RIVETS H9044-8

These heads fit directly on the G55, G86, both obsolete and G740 Cherry® power riveters. Will fit on the G784 and G689 hydro-shift Cherry® riveters with the 680B57 adapter. For the 1/4" Cherrylock "A" rivets. 8 Diameter. ..... P/N 12-03131 ..... ---

CHERRYMAX STRAIGHT PULLING HEAD H846A-456

This pulling head installs 1/8", 5/32" & 3/16" Nominal & Oversize CherryMAX Rivets (G744 only) ..... P/N 12-03103 ..... ---

CHERRYMAX RIGHT ANGLE PULLING HEAD H828-8

CherryMAX Right Angle Pulling Head installs 1/4" Nominal & Oversize CherryMAX Rivets (G744 only) ..... P/N 12-03096 ..... ---

CHERRYMAX OFFSET PULLING HEAD H827-8

CherryMAX Offset Pulling Head installs 1/4" Nominal & Oversize CherryMAX Rivets (G744 only) ..... P/N 12-03093 ..... ---

CHERRYLOCK® RIGHT ANGLE PULLING HEADS H886

The H886 series right angle s fit directly on the G701A, G704B, G746A and G747 power riveters to install CherryLOCK® 'A' brand rivets in 3/32", 1/8", 5/32" and 3/16" diameters in all materials, head styles and up to -04 grip length.

H886-3 ..... P/N 12-03113 ..... ---
H886-4 ..... P/N 12-03114 ..... ---
H886-5 ..... P/N 12-03115 ..... ---
H886-6 ..... P/N 12-03116 ..... ---

OFFSET LOCKBOLT PULLING HEADS H562-6B/8B

The H562 series pulling heads. Requires adapter (744-100) when used on the Cherry G84 tool.

-6 Diameter 3/16" ..... P/N 12-03059 ..... ---
-8 Diameter 1/4" ..... P/N 12-03060 ..... ---

TO

CHERRY PULLING HEADS

CHERRY PULLING HEAD H1900-456

The H1900-456 is designed to reliably install all sizes of the single action NAS1919/1921 product assembled with or without a drive washer. To install the product without a drive washer use the appropriate nose piece. Total weight without riveter: .27 lbs (0.1222 kg). Use with G83 or G84 Cherry Riveter or any riveter equipped with a 352 Style Mounting System.....P/N 12-03019 ..... ---

COMPACT UNIVERSAL STRAIGHT PULLING HEAD H800

Compact Universal Straight Pulling Head for G800 riveter. Weight - 0.15 lbs. .....P/N 12-03092 ..... ---

SHORT PINTAIL BASIC PULLING HEAD H513

Cherry Short Pintail Basic Pulling Head H513 - See Tool Specifications below to determine which pulling head is needed.

Cherry P/N	LockBolt Dia.	Installed Length	Part No.	Price
H513-04-20	1/8”	2” (51 mm)	12-03020	---
H513-04-35	1/8”	3-1/2” (89 mm)	12-03021	---
H513-05-35	5/32”	3-1/2” (89 mm)	12-03022	---
H513-06-20	3/16”	2” (51 mm)	12-03023	---
H513-06-60	3/16”	6” (152 mm)	12-03024	---
H513-08-35	1/4”	3-1/2” (89 mm)	12-03025	---

SWIVEL NOSE PULLING HEAD H513S

Cherry Swivel Nose Pulling Head H513S - See Tool Specifications below to determine which pulling head is needed.

Cherry P/N	LockBolt Dia.	Installed Length	Part No.	Price
H513S-05-20	2” (51 mm)	5/32”	12-03026	---
H513S-05-35	3-1/2” (89 mm)	5/32”	12-03027	---
H513S-06-20	2” (51 mm)	3/16”	12-03028	---
H513S-06-24	2-3/8” (60 mm)	3/16”	12-03029	---
H513S-06-35	3-1/2” (89 mm)	3/16”	12-03030	---
H513S-06-48	4-13/16” (122 mm)	3/16”	12-03031	---
H513S-08-24	2-3/8” (60 mm)	1/4”	12-03032	---
H513S-08-35	3-1/2” (89 mm)	1/4”	12-03033	---
H513S-08-48	4-13/16” (122 mm)	1/4”	12-03034	---
H513S-10-27	2-11/16” (68 mm)	5/16”	12-03035	---
H513S-10-42	4-3/16” (106 mm)	5/16”	12-03036	---
H513S-12-27	2-11/16” (68 mm)	3/8”	12-03037	---
H513S-12-42	4-3/16” (106 mm)	3/8”	12-03038	---

SELF RELEASING SWIVEL NOSE PULLING HEAD H513SR

Cherry Self Releasing Swivel Nose Pulling Head H513SR - See Tool Specifications below to determine which pulling head is needed.

Cherry P/N	LockBolt Dia.	Installed Length	Part No.	Price
H513SR-05-20	2” (51 mm)	5/32”	12-03039	---
H513SR-05-35	3-1/2” (89 mm)	5/32”	12-03040	---
H513SR-06-20	2” (51 mm)	3/16”	12-03044	---
H513SR-06-24	2-3/8” (60 mm)	3/16”	12-03045	---
H513SR-06-35	3-1/2” (89 mm)	3/16”	12-03046	---
H513SR-06-48	4-13/16” (122 mm)	3/16”	12-03047	---
H513SR-08-24	2-3/8” (60 mm)	1/4”	12-03048	---
H513SR-08-48	4-13/16” (122 mm)	1/4”	12-03049	---
H513SR-10-27	2-11/16” (68 mm)	5/16”	12-03050	---
H513SR-10-42	4-3/16” (106 mm)	5/16”	12-03051	---
H513SR-12-27	2-11/16” (68 mm)	3/8”	12-03052	---
H513SR-12-42	4-3/16” (106 mm)	3/8”	12-03053	---

SELF RELEASING SWIVEL NOSE/ CHISEL SHAPE PULLING HEAD H513SRC

Cherry Self Releasing Swivel Nose/Chisel Shape Pulling Head H513SRC - See Tool Specifications below to determine which pulling head is needed.

Cherry P/N	LockBolt Dia.	Installed Length	Part No.	Price
H513SRC-05-20	2” (51 mm)	5/32”	12-03054	---
H513SRC-05-35	3-1/2” (89 mm)	5/32”	12-03055	---
H513SRC-06-20	2” (51 mm)	3/16”	12-03056	---
H513SRC-06-35	3-1/2” (89 mm)	3/16”	12-03057	---
H513SRC-08-48	4-13/16” (122 mm)	1/4”	12-03058	---

CHERRYLOCK “A” CODE PULLING HEAD H84-8CLA

Cherrylock “A” Code Pulling Head for use with G84 riveters. Tool weight (without riveter): .3 lbs (0.14 kg). .....P/N 12-03104 ..... ---

OFFSET LOCKBOLT/ SHORT PINTAIL PULLING HEAD H563SP

See Tool Specifications below to determine which pulling head is needed.

Cherry P/N	Type	LockBolt Dia.	Part No.	Price
H563SP-4B	Basic Pulling/Short Pintail	1/8”	12-03064	---
H563SP-5B	Basic Pulling/Short Pintail	5/32”	12-03065	---
H563SP-6B	Basic Pulling/Short Pintail	3/16”	12-03066	---

CHERRYLOCK® STRAIGHT PULLING HEAD H681

Fits directly on all Cherry hydroshift riveters, 2-9/16” installed. Separate pulling head is required for each style & diameter rivet.

Description	Rivet Dia.	A/B Dims.	Part No.	Price
H681-3C Universal C-Sunk Head	3/32”	.163”/.332”	12-03070	---
H681-4C Universal C-Sunk Head	1/8”	.208”/.341”	12-03071	---
H681-4F Countersunk Head 156	1/8”	.430”/.358”	12-03072	---
H681-4S Countersunk Head NAS 1097	1/8”	.174”/.341”	12-03073	---
H681-5C Universal C-Sunk Head	5/32”	.269”/.352”	12-03074	---
H681-6C Universal C-Sunk Head	3/16”	.335”/.386”	12-03075	---
H681-6F Countersunk Head 156	3/16”	.625”/.367”	12-03076	---
H681-6S Countersunk Head NAS 1097	3/16”	.281”/.386”	12-03077	---
H681-8C Universal C-Sunk Head	1/4”	.458”/.398”	12-03078	---

CHERRYLOCK® STRAIGHT PULLING HEAD H681B

Fits directly on all Cherry hydroshift riveters, 2-9/16” installed. Separate pulling head is required for each style & diameter rivet.

Description	Rivet Dia.	A/B Dims.	Part No.	Price
H681B166-4 Uni-Sink Head	1/8”	.250” / .359”	12-03079	---
H681B166-5 Uni-Sink Head	5/32”	.313” / .377”	12-03080	---
H681B166-6 Uni-Sink Head	3/16”	.375” / .419”	12-03081	---

CHERRYMAX® STRAIGHT PULLING HEAD H701B-456

CherryMAX Straight Pulling Head H701B-456 - Installs 1/8”, 5/32” & 3/16” Nominal & Oversize CherryMAX Rivets.
P/N 12-03083 ..... ---

NUT PLATE PULLING HEAD WITH NOSEPIECES H702-3NPR

Cherry® Nut Plate Pulling Head. Includes nosepieces: 728A9-3 (3/32””) & 728A9-104 (1/8””). For G702A Riveter. Installs 3/32” & 1/8, 2.5 mm & 3 mm Nut Plate.
P/N 12-03084 ..... ---

CHERRYMAX STRAIGHT PULLING HEAD H744A-8

CherryMAX Straight Pulling Head installs 1/4” Nominal & Oversize CherryMAX Rivets (G744 Only) .....P/N 12-03087 ..... ---

CHERRYMAX RIGHT ANGLE PULLING HEAD H753A-456

CherryMAX Right Angle Pulling Head H753A-456 installs 1/8”, 5/32” & 3/16” Nominal & Oversize CherryMAX Rivets P/N 12-03089 ..... ---

CHERRYMAX OFFSET PULLING HEAD H781-456

CherryMAX Offset Pulling Head installs 1/8”, 5/32” & 3/16” Nominal & Oversize CherryMAX Rivets .....P/N 12-03090 ..... ---

OFFSET LOCKBOLT PULLING HEAD H563

See Tool Specifications below to determine which pulling head is needed.

Cherry P/N	Type	LockBolt Dia.	Part No.	Price
H563-4B	Basic Pulling	1/8”	12-03061	---
H563-5B	Basic Pulling	5/32”	12-03062	---
H563-6B	Basic Pulling	3/16”	12-03063	---

STRAIGHT PULLING HEAD -8 CHERRYMAX® H84A-8

Straight pulling head H84A-8 for use with G84 Power Riveter and G84-LS Split Power Riveter (with adaptor 744-700). Pulling Head Weight: 0.2 lbs (0.09 kg). .....P/N 12-03106 .....

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RIVET GUNS

CHERRY G-28 HAND RIVETER GUN

The Cherry G-28 is a lightweight (13 oz.) ruggedly compact hand tool designed to efficiently set a broad range of Cherry commercial rivets. A unique torsion spring keeps the lever arm in place, ready to accept rivet after rivet. The G-28 comes with two popular size nosepieces, 728A9-4 (to set Cherry N Rivets - 1/8" dia. & Cherry Q Rivets - 1/8" dia.) and 728A9-6 (to set Cherry N Rivets - 5/32" & 3/16" dia. & Cherry Q Rivets - 5/32" & 3/16" dia.), one of which is stored securely out of the way in the riveter handle. ..... P/N 12-03000 ..... ---

CHERRY G-29 HAND RIVETER

The Cherry® G-29 Hand Riveter is an efficient, compact, lightweight tool for installing Cherry® NUT-PLATE rivets. It comes equipped with a 728A9-3 nosepiece to install 3/32" rivets and has a 728A9-104 nosepiece stored in the handle for installing 1/8" rivets. The G-29 Riveter is 9-1/4" long, weighs just 13 ounces and is intended for use when access or power limitations prevent the use of Cherry® power tools. ..... P/N 12-00701 ..... ---

CHERRY G-27 HAND RIVETER KIT

The Cherry G-27 Hand Riveter is designed specifically for the most efficient installation of 1/8" CherryMAX Rivets. The G-27 Riveter is intended for use where access or power limitation prevents the use where access or power limitation prevents the use of Cherry pneumatic power tools. Overall length of the G-27 is 9-1/4", the net weight is just 13 ounces and the pulling head is an integral part of the tool ..... P/N 12-03105 ..... ---

120° FLUSH DIMPLING TOOL

This unique tool for 1/8" 120° countersunk "Pop" rivets attaches to the Cherry G-28 standard hand "Pop" rivet gun. Simple design makes dimpling foolproof, quick and easy, with no cracking of metal. For use on aluminum to .040" thickness.

P/N 17014 ..... ---

ADJUSTABLE RIVET SPACER

For uniform spacing of rivets, bolts, nails, etc. Unique fan design expands to 36". Equally spaces up to 20 holes between 2 given points. Made of 301 stainless steel.

20 Hole spacer ..... P/N 12-11700 ..... ---
10 Hole spacer ..... P/N 12-00184 ..... ---

RIVEDRILL™

Allows operators to set up to 14 rivets per minute - twice as many as can be set by standard hand tools. The RiveDrill is ergonomically friendly, requiring just 6.6 lbs. of pressure to operate, compared to 77.2 lbs. required for hand tool operation. Able to set any standard blind rivet up to 3/16" aluminum. (For cordless electric power drills, a minimum 12V battery is recommended.) Nosepieces for 1/8", 5/32", & 3/16" sizes are included. ..... P/N 12-00253 ..... ---

ULTRALIGHT NUTPLATE DRILL MOTOR

Ergonomic, lightweight design. Only one hand required to locate, drill & countersink both holes. Easily convert rivet spacings with interchangeable foot attachments. Accomodates all nutplate spindle spacings from 0.219" to 1.125". Fully adjustable feed rate. P/N 12-01376 ..... ---

THREAD SELF-COILING AIR/VACUUM HOSE

This 25 ft. air vacuum hose snaps back to a compact 20" coil for easy storage. Includes non-corrosive brass male fittings. Excellent for air tools using a compressor. 100 PSI working pressure. Oil resistant polyurethane construction High visibility color. 1/4" NPT air inlet....P/N 12-00218 .....

RED BOX 737 RIVET GUN KIT

Includes: 1pc Rivet Gun (choose size 2X, 3X or 4X), 1pc Type A -Bucking Bar, 1pc Type B -Bucking Bar, 1pc Brass Regulator, 1pc Air Tool Fitting, 4pcs 3.5" Straight Rivet Set (3/32", 1/8" 5/32", 3/16"), 1pc Standard Flush Set (Surface: 1", Length: 2.5"), 1pc Beehive Spring, 1pc Retainer Spring, 1pc Marvel Air Tool Oil

Gun	Length	BPM	Cap.	Bore	Shank	Stroke	Weight	Part No.	Price
2X	6-11/16"	2580	1/8"	1/2"	.401"	2-1/4"	3. lbs	12-02682	---
3X	7-5/16"	2160	3/16"	1/2"	.401"	2-7/8"	3.2 lbs.	12-02686	---
4X	8-1/2"	1740	1/4"	1/2"	.401"	3-1/16"	3.4 lbs.	12-02687	---

ATS AIRCRAFT RIVET GUN #2602

So controllable you can easily buck rivets as small as 3/32" to as large as 3/16".

P/N 12-18340 ..... ---

RIVET SET MAX FOR 2602 RIVET GUN

3/32", 1/8", 5/32" and 3/16" rivets.

3-1/2" (5 pcs. straight, includes flat) ..... P/N 12-18341 ..... ---
3-1/2" (4 pcs. offset) ..... P/N 12-18342 ..... ---
5-1/2" (4 pcs. straight) ..... P/N 12-18344 ..... ---

PROFESSIONAL HAND PLIER RIVET TOOL

Professional Hand Plier Rivet Tool is 50% easier to use then other hand tools. A patented compound link designed does the work for you. A shorter grip opening ergonomically designed for one hand operation. Grips cover the length of the lever and body, and soft handles are contoured to fit the hand. The wrench and nosepieces (3/32", 1/8", 5/32", & 3/16") are stored in the handle of the tool. Excellent for use on Cherry and other standard pop rivets.

Features: • Robust aluminum casting and vanadium steel handle design • Setting capacity: aluminum rivets up to 3/16" (4.8 / 5.0mm) body diameter • Contoured handle grips for comfort • Rivet retaining handle design for one-handed riveting • Supplied with nosepieces for 3/32", 1/8", 5/32" & 3/16" (2.4mm, 3.2mm, 4.0mm & 4.8mm) rivets • Supplied nosepiece wrench • Length: 9.65" (245mm) • Weight: 1.3 lbs. (0.6 kg)

P/N 12-00178 ..... ---

MILWAUKEE M12 RIVET GUN

A Cordless solution that delivers fast, easy riveting while maintaining performance, durability, and size. The 2550 can pull up to 250 3/16" stainless steel rivets or 450 1/8" steel rivets on one charge with a 1.5ah battery, and reduces muscle effort from a hand tool by 60%. This is the most compact cordless rivet tool on the market, measuring only 6.5" in length allowing users more access in tight spaces.

P/N 12-05736 ..... ---

HEAVY DUTY RIVETER

Includes four nosepieces to set rivet diameters from 3/32" up to 3/16". Convenient lock chain keeps handles closed when tool is not in use. Made in U.S. ..... P/N 12-18352 ..... ---

3M™ RIVETERS TAPE

3M™ Riveters Tape 685 Transparent Film with Green Adhesive, 1.7 mils (.043 mm) Polyester film with a rubber-strip coated along edges of tape only and tack-free center Window..... P/N 12-18355 .....

COMBINATION RIVET NUT TOOL

Ideally suited to the needs of the aircraft homebuilder. Develops 3,500 lbs. of pulling force which permits the installation of all Cherry Commercial Blind Rivets or any other Pop type rivets through 1/4" diameter as well as all CherryMax rivets through 3/16" diameter. Will not pull Cherry Lock rivets. Quickly converts to a threaded blind nut setter. The kit includes the D100 hydraulic tool with adapters for blind rivet and blind nut installation, rivet nosepieces for 1/8", 5/32" and 3/16" diameter blind rivets, blind nut pull-up studs with nosepieces for 6-32, 8-32, 10-32 and 1/4-28 Rivnuts, operating instructions and a rugged Plastic storage case. Size: 12-1/2" x 8-1/4 x 3'. Weight: 3 lbs. .....P/N 12-01136 Kit..... ---

PNEUMATIC-HYDRAULIC BLIND RIVETER

No larger than a compact drill motor, will install virtually any straight-pull blind rivet with installation loads of 3500 lbs. or less. All blind rivets from 3/32" dia. up to and including 1/4" dia. Can install CherryMax rivets. It utilizes a patented two-valve hydraulic pump actuated by 90 to 130 PSIG air pressure. Collect/jaw assembly remains stationary while the outer sleeve-nosepiece assembly is hydraulically moved, creating sufficient load to install the rivet. Furnished with three nosepieces for 1/4", 1/8", 3/16" & 3/32" rivets. Wt. 29 oz. .....P/N 09-01070 ..... ---

RED BOX 777 RIVET GUN KIT

Includes: • 1pc Rivet Gun (Choose Size 2X, 3X or 4X) • 1pc Type A -Bucking Bar • 1pc Type B -Bucking Bar • 1pc Type C -Bucking Bar • 1pc Type D -Bucking Bar • 1pc Brass Regulator • 1pc Air Tool Fitting • 4pcs 3.5" Straight Rivet Set(3/32",1/8",5/32",3/16") • 4pcs 3.5" Offset Rivet Set(3/32",1/8",5/32",3/16") • 1pc Standard Flush Set (Surface: 1", Length: 2 1/2") • 1pc Flush Set w/ Rubber (Surface:1 1/4",Length:2 3/8") • 1pc Beehive Spring • 1pc Retainer Spring • 1pc Marvel Air Tool Oil

2X Rivet Gun Kit ..... P/N 12-03726 ..... ---
3X Rivet Gun Kit ..... P/N 12-03727 ..... ---
4X Rivet Gun Kit ..... P/N 12-03728 ..... ---

TO

RIVETERS

BLUE PNEUMATIC RIVETING TOOL BP-3V

2100lbs. of force the tool has the best weight to power ratio in the industry, boasting 2100lbs of pulling force. It can set 1/8,5/32 and 3/16 rivets in all Alloys. Super light weight and small, allowing the rivet gun to fit in the tightest of spaces. Convenient, thumb-operated on/off vaccum control switch to control compressor air consumption. Comes complete with nose tips for 1/8, 5/32 and 3/16,. Also included are wrenches for service and oil applicator. Recommended operating air pressure is 80-95 PSI. Weight 3.2 lbs .....P/N 12-03384 ..... ---

BLUE PNEUMATIC RIVETING TOOL BP-4V

3500lbs of pulling force. Can set 1/8,5/32, 3/16 and 1/4 rivets in all Alloys. Super light weight, allowing the rivet gun to be operated continually with great comfort. Convenient, thumb-operated on/off vaccum control switch to control compressor air consumption. Complete with nose tips for 1/8, 5/32, 3/16 and 1/4. Also included are wrencnes for service and oil applicator. Recommended operating air pressure is 80-95 PSI. Weight 3.6 lbs. .....P/N 12-03385 ..... ---

BLUE PNEUMATIC COMPACT HEAVY DUTY RIVETER BP-54

The power of the large "heavy duty" riveters in the body of a small one. Sets 3/32, 1/8, 5/32 and 3/16 rivets in all materials. Ideal for multi-grip rivets and pulls 3/16 Monobolt/Magna-lok structural rivets. Nose pieces and service wrenches are included. Recommended operating air pressure is 85-100 PSI. Weight 4 lbs.

Without Vacuum .....P/N 12-03386 ..... ---
With Vacuum .....P/N 12-03429 ..... ---

BLUE PNEUMATIC HEAVY DUTY AIR /HYDRAULIC RIVETER BP-50

3800lbs. of force. Sets rivets from 1/8 through 1/4 in all materials. Its 7/8 stroke allows this rivet tool to pull most structural rivets in one stroke. Great for high production applications. Comes with nose pieces including 1/8, 5/32, 3/16 and 1/4. Also included are wrenches for service and oil applicator. Recommended operating air pressure is 85-100 PSI. Weight 5 lbs.

P/N 12-03387 ..... ---

BLUE PNEUMATIC POWER MICRO BLIND RIVET GUN BP-48V

Installs 3/32, 1/8 and 5/32 blind rivets in all materials. This rivet tool weighs in at 2.4 lbs and has 1760 lbs. of pulling force. The rivet gun comes with a vaccum powered mandrel collection system. Also included are wrenches for service and oil applicator. Recommended operation pressure 85-100 PSI. Weight 2.4 lbs. .....P/N 12-03388 ..... ---

BLUE PNEUMATIC AIR HYDRAULIC RIVETER WITH VACUUM BP-50V

3800lbs. of force. Sets rivets from 1/8 through 1/4 in all materials. Its 7/8 stroke allows this rivet tool to pull most structural rivets in one stroke. Great for high production applications. Rivet tool comes with nose pieces including 1/8, 5/32, 3/16 and 1/4. Also included are wrenches for service and oil applicator. Recommended operating air pressure is 85-100 PSI. Weight 5 lbs. .....P/N 12-03430 ..... ---

BLUE PNEUMATIC BIG SPIN RIVET NUT TOOL BP-200BC

Now with a swiveling air inlet and ergonomic composite handle. Operates at 200 rpm for installations of the large rivet nuts. Places 1/2-13 and M12. Recommended operating air pressure is 85-110 PSI. Weight 2.8 lbs. Part includes nose assembly, make selection at time of order. Nose assembly sizes: 632, 832, 1024, 1/4-20, 5/16-18, 3/8-16. .....P/N 12-03431 ..... **2.95**

BLUE PNEUMATIC HEAVY DUTY LEVER RIVET NUT TOOLS

HEAVY DUTY LEVER RIVET NUT TOOL BP-734: • Heavy Duty Lever Rivet Nut Tool • Comfortable easy grip handle • Long handles for easy rivet nut and nutsert installations. • Includes M5, M6, M8 and M10 Nose Assemblies.....P/N 12-03501 ..... ---

HEAVY DUTY LEVER RIVET NUT TOOL BP-734S: • Heavy Duty Lever Rivet Nut Tool • Comfortable easy grip handle • Long handles for easy rivet nut and nutsert installations • Includes 10-24, 1/4-20, 5/16-18 and 3/8-16 Nose Assemblies.....P/N 12-03502 ..... ---

HEAVY DUTY LEVER RIVETER BP-764: • Up to 1/4 steel • Heavy Duty Lever Rivet Tool • Comfortable easy grip handle • Rivet tool comes with nose pieces including 1/8, 5/32, 3/16 and 1/4.

P/N 12-03503 ..... ---

BLUE PNEUMATIC COMPACT HEAVY DUTY RIVETER BP-54

Sets 3/32, 1/8, 5/32 and 3/16 rivets in all materials. Ideal for multi-grip rivets and pulls 3/16 Monobolt/Magna-lok structural rivets. Nose pieces and service wrenches are included. Recommended operating air pressure is 85-100 PSI. Weight 4 lbs. .....P/N 12-03432 ..... ---

BLUE PNEUMATIC ACCU-SPIN RIVET NUT TOOL BP-600QC

Swiveling air inlet and ergonomic composite handle. Operates at 800 rpm for quick installations of smaller rivet nuts. Places 8-32, 10-24, 1/4-20 and M4, M5, and M6 rivet nuts. Recommended operating air pressure is 85-110 PSI. Weight 2.8 lbs. Part includes nose assembly, make selection at time of order. Nose assembly sizes: 632, 832, 1024, 1/4-20, 5/16-18, 3/8-16.

P/N 12-03433 ..... ---

BLUE PNEUMATIC QUICK SPIN RIVET NUT TOOL BP-2000QC

Swiveling air inlet and ergonomic composite handle Operates at 1600 rpm for quick installations of smaller rivet nuts. Places 6-32, 8-32, 10-24 and M3, M4, as well as Jacknuts. Recommended operating air pressure is 85-110 PSI. Weight 2.8 lbs. Part includes nose assembly, make selection at time of order. Nose assembly sizes: 632, 832, 1024, 1/4-20, 5/16-18, 3/8-16.

P/N 12-03434 ..... ---

BLUE PNEUMATIC SPIN PULL SPIN ULTRA RIVET NUT TOOL BP-60

SPIN-PULL-SPIN setting sequence. In one touch the fastener quickly spins on, pulls the fastener, and with the release button, spins out of the fastener. Setting cycle is about 2 seconds. Fully adjustable stroke for accurate insert placements. Mandrels are included with tool. Comes complete with sizes 8-32 through 1/2-13 or M4 through M12. "More Power" means this tool uses its huge 6800 lbs. of pulling force to set up to 1/2 (M12) steel rivet nuts with ease. Recommended operating air pressure is 80-100 PSI. Weight 6 lbs.

Standard .....P/N 12-03436 ..... ---
Metric .....P/N 12-03505 ..... ---

BLUE PNEUMATIC CORDLESS RIVETER BP-20CR

The Blue Pneumatic BP-20CR 1/4" Blind Rivet Tool is an ultra-fast cordless rivet tool. It eliminates the need for air hoses and compressors and is built to last. The brushless motor makes this tool very durable, lasting many times longer than other rivet tools. With an industry leading 27mm (1 1/16 in) stroke, it pulls rivets in just one stroke. This tool is ideal for production environments as it has a sturdy outer composite body and requires just about no maintenance. BP-20CR's Brushless Motor delivers 4,496 lbs. (20kN) of pulling force for high-strength Structural blind rivets in all materials. This rivet tool pulls rivets ranging from 1/8 up to 1/4" in all /materials ....P/N 12-05561 ..... ---

BLUE PNEUMATIC HAND TOOL BP-738

Rivet Nut Hand Tool BP-738.

Standard .....P/N 12-03437 ..... ---
Metric .....P/N 12-05433 ..... ---

BLUE PNEUMATIC RIVET NUT TOOL W/MANDRELS BP-738M

Hand tool with mandrels. Includes Mandrel sizes 6-32,8-32,10-24 and 1/4-20.

P/N 12-03440 ..... ---

BLUE PNEUMATIC R AND D HAND TOOL KIT BP-738K

BP-738 Hand Tool. Mandrels including 6-32, 8-32, 10-24, and 1/4-20. Also includes 40 total pcs of assorted rivet nuts that match included mandrels. Comes in molded plastic case (Private labeling available) ..... P/N 12-03441 ..... ---

BLUE PNEUMATIC NOSE ASSEMBLY FOR SPIN-SPIN RIVET NUT TOOLS

Quick change nose assembly. Available in 6-32 through 3/8-16. Spin-Spin tools use replaceable socket head cap screw. 3/8 air hose recommended for optimal performance.

Description	Part No.	Price
Blue Pneumatic BPQ-632 Nose Assembly	12-03442	---
Blue Pneumatic BPQ-832 Nose Assembly	12-03443	---
Blue Pneumatic BPQ-1024 Nose Assembly	12-03444	---
Blue Pneumatic BPQ-1/4-20 Nose Assembly	12-03445	---
Blue Pneumatic BPQ-5/16-18 Nose Assembly	12-03446	---
Blue Pneumatic BPQ-3/8-16 Nose Assembly	12-03447	---

TO

L-6000 RIVET NUT SPEED DRIVER

This tool is designed for light production and features high speed push-pull, smooth, spiral action. Sized #4 through #10 adequate for brass, aluminum, and steel. Sized #4 through #8 adequate for stainless steel. Provides easy on-and-off threading of rivet nut with push-pull knob. Adjustable anvil for different length rivet nuts. Made in U.S.A. The C-6000 Speed Header is available for Rivet Nuts with the following thread sizes:

6-32 ..... P/N 12-12600 ..... --- 8-32 ..... P/N 12-12700 ..... ---
10-32 ..... P/N 12-12800 ..... --- 1/4-28 ..... P/N 12-12900 ..... ---

CONVERSION KIT - For changing speed header to a different Rivet Nut thread size. Order by P/N .

6-32 Kit .... P/N 12-13000 ..... --- 8-32 Kit .... P/N 12-13100 ..... ---
10-32 Kit .. P/N 12-13200 ..... --- 1/4-28 Kit . P/N 12-13300 ..... ---

C-845 ECONOMY RIVET NUT TOOL

Model L-845 wrench type Rivet Nut tool is for field repair & experimental use. Adequate for aluminum, brass, steel, and stainless. Made in U.S.A. Order by part number.

Available in following thread sizes:

6-32 ..... P/N 12-13400 ..... --- 8-32 ..... P/N 12-13500 ..... ---
10-24 ..... P/N 12-13600 ..... --- 10-32 ..... P/N 12-13700 ..... ---
1/4-20 ..... P/N 12-13800 ..... --- 1/4-28 ..... P/N 12-13900 ..... ---

L722 WRENCH TYPE RIVET NUT TOOL

L722 Wrench Type Rivet Nut installation tool for the larger size fasteners 5/16" up to 1/2", tool comes with long arm allen wrench with plastic handle for easy installation.

Description	Part No.	Price
Wrench Type Header 5/16-18	12-00920	---
Wrench Type Header 3/8-16	12-00922	---
Wrench Type Header 1/2-13	12-00927	---
Wrench Type Header M10	12-00930	---
Wrench Type Header 5/16-24	12-00921	---
Wrench Type Header 3/8-24	12-00926	---
Wrench Type Header 1/2-20	12-00928	---

L-1000 ECONOMY HAND RIVET NUT TOOL

The L-1000 economy hand Rivet Nut tool is recommended for slotted rivet nut fasteners. Adequate for aluminum, brass, steel and stainless steel fasteners. Made in U.S.A. Order by part number. L-1000M is same tool, except in metric sizes.

Model	Thread Size	Part No.	Price Ea.
L-1000	(60-32)	12-13645	---
L-1000	(8-32)	12-13650	---
L-1000	(10-32)	12-13655	---
L-1000M	(M6)	12-13675	---

BLIND RIVET REMOVAL TOOL

This rivet removal tool allows you to remove those stubborn Pop, Avdel, Cherry-Q, and other blind rivets. The serrated nosepiece fits over any button head, round head, or universal head rivet and locks in place to keep it from spinning as it's being drilled out. It will also remove solid rivets. Includes adapters to remove 3/32", 1/8", 5/32", and 3/16" rivets.

Note: Not for use with steel rivets

Red ..... P/N 12-03368 ..... ---

RIV-NUT PULLERS

The Riv-Nut Puller was designed for installation of steel and aluminum rivet-nuts. High speed, push-pull action. Available in sizes 6/32, 8/32, and 10/32.

Rivet Nut Puller 6-32 ..... P/N 12-02886 ..... ---
Rivet Nut Puller 8-32 ..... P/N 12-02887 ..... ---
Rivet Nut Puller 10-32 ..... P/N 12-02888 ..... ---
Rivet Nut Puller Conversion Kit 8-32 ..... P-N 12-02880 ..... ---
Rivet Nut Puller Conversion Kit 10-32 ..... P/N 12-02881 ..... ---
Rivet Nut Puller 6-32 w- 2 Conversion KitS. P/N 12-02885 ..... ---
Rivet Nut Stem Replacement 6-32 ..... P/N 12-02889 ..... ---
Rivet Nut Stem Replacement 8-32 ..... P/N 12-02890 ..... ---
Rivet Nut Stem Replacement 10-32 ..... P/N 12-02891 ..... ---
Rivet Nut Puller Conversion Kit 8-32 ..... P/N 12-02880 ..... ---
Rivet Nut Puller Conversion Kit 10-32 ..... P/N 12-02881 ..... ---
Rivet Nut Puller 6-32 w- 2 Conversion Kit ... P/N 12-02885 ..... ---

RIVET CONVERSION KITS

Converts your conventional hand pop riveter into an economical RivNut installer tool.

Size	Part No.	Price
6-32	P/N 12-13680	---
8-32	P/N 12-13681	---
10-32	P/N 12-13682	---

HEAVY DUTY RIVET CUTTER

This high quality, durable rivet cutter features all steel construction and cuts 1/16" to 1/4" diameter rivets. It is adjustable for 1/4" to 3/4" long rivets.

P/N 12-16840 ..... ---

RIVET CUTTER

This handy rivet cutter, w/ 2 hardened blades, cuts rivets of any standard dia. from 3/32" to 3/16" without burring. The length of the cut rivet can be varied from 3/16" to 5/8" by means of 8 adjustable leaves attached to the cutting head. Plastic coated grips. Wt. 2 lbs.

P/N 12-00200 ..... ---

LUFKIN METRIC/INCH TAPE MEASURE

LUFKIN NO. W921OME Has 1/2" blade, 3 meters long (equal to about 10 ft.). Markings are on one side only, with millimeters on upper edge and inches to 16ths on lower edge. White face ....P/N 12-19700 ..... ---

STANLEY DECIMAL INCH TAPE MEASURE

This 12-ft. steel tape measure with 1/2" blade is graduated in tenths & hundredths of inches and also in fractions of inches (32nds). Very handy for all aircraft construction. A must for building composite aircraft. .....P/N 33-272 ..... ---

SMART TOOL DIGITAL INCLINOMETER

Smart Tool is a unique digital inclinometer with up to 0.1° of repeatable accuracy. Measures and displays any angle through 360°, and readings can be relative to any angle. Smart level even calculates complicated slope measurements in either percent or inches per foot. It is sunlight viewable, features 3 sensitivity settings, and has 120-hour battery life with auto shut–off. Powered by any 9V battery.

Smart Tool in 24" rail..... P/N 12-21365 ..... ---
Smart Tool in 48" rail..... P/N 12-21370 ..... ---

INSTANT MAGNETIC ANGLE FINDER

Measuring angles is a snap with Johnson's magnetic angle locator. It features a high-impact molded body and an extra-strong ceramic magnet that sticks to ferrous metal surfaces, while the v-groove edges fit perfectly onto pipe and conduit. Easy to read increments show 0-90° in all four quadrants on the durable acrylic lens, and the sides are marked with length graduations for convenience - one leg shows inch graduations while the other leg shows metric graduations. .....P/N 12-14800 ..... ---

DIGITAL PROTRACTOR/LEVEL ND-81

Full 360-degree measuring range with maximum resolution and accuracy of 0.1 degree. Simple 30 second calibration procedure using only the top flat edge of a table or desk. Alternate zero button to set zero starting point at any angle (commonly used for aileron, flap and elevator rigging). Display hold button to freeze reading when measuring in tight spaces. Readout stays upright even when protractor is upside down.

P/N 12-02651 ..... ---

PRO 360 DIGITAL PROTRACTOR

The Pro 360 Digital Protractor is a revolutionary measuring tool that provides an immediate, digital reading of all angles in a 360° circle.The machined aluminum frame is a rigid, light weight, ultra-precise platform that allows the state-of-the-art sensor and its microprocessor circuit to provide unsurpassed accuracy throughout the Protractor's 360° range. Typical used by aircraft builders, maintenance personnel and airport operators.

P/N 12-20125 ..... ---

PRO 3600 DIGITAL PROTRACTOR

The PRO-3600 is accurate to 0.01° and has an RS-232 compatible serial port for a computer interface and SPC records keeping. .....P/N 12-00759 ..... ---

ATS-360 DIGITAL PROTRACTOR

It provides absolute measurement as well as relative measurement. 2.75" wide by 1.50" high LCD screen. Can convert between angles and slopes; Accurate to within .05 degrees .....P/N 12-04967 ..... ---

TO

PLASTIC PRY TOOLS – SCRAPING TOOLS

BOJO PLASTIC PRY TOOLS

Soft, yet strong, all Bojo tools are made tough enough to pry, but not hard enough to damage. These 4 tools are provided as a set.

PLASTIC GENERAL WEDGE TOOL - General narrow point for reaching in narrow spaces.

PLASTIC STICKER/GASKET TOOL - Wedge tip, for use where a wide area is desired with a "soft" touch.

PLASTIC PRY BAR TOOL - The forked tip. The original for removing door panels and plastic grommets.

PLASTIC WEDGE PULLER TOOL - The forked tip. The original for removing door panels and plastic grommets. Set of 4 listed above.
P/N 12-00748.....---

MASTER INSTALLER KIT - Soft, yet strong, all Bojo tools are made tough enough to scrape, but not hard enough to damage. Set of 7.
P/N 12-00976..... ---

AIRCRAFT ASSEMBLY SCRAPER KIT - Soft, yet strong, all Bojo tools are made tough enough to scrape, but not hard enough to damage. Set of 4..... P/N 12-00977.....---

DELUXE SCRAPER KIT - This is an expansion of our original 4 Piece Scraper Kit (which you currently buy in the medium strength material NGL). The new tips were design from request in the aviation fuel bladder cleaning industry for the US Air Force and US Navy overhaul programs. This new, stronger material is highly resistance to all forms of chemicals and sealants. .....P/N 12-01858 ..... ---

Description	Part No.	Price
Pry Tool Large LFT-2-N	12-01859	---
Sheet Panel ADJ Tool Kit	12-01860	---
Wire Guide Tool ATH-30-GNL	12-01857	---

MULTI WEDGE NON-MARRING TOOL SETS

Multi Wedge non-marring tool sets allow home-builders and avionics installers to remove panels, dash trim bezels, and other interior moldings, including door panels, without causing damage. Excellent for use in aviation, auto restoration, body work, electronics installation, upholstery etc. The Orange Set (3400) P/N 12-01671 is made of a softer polyethylene plastic blend for prying dash bezels, trims, and moldings without damaging the vehicles interior. The Black Set (3500) P/N 12-01672 is made of a more expensive high impact polycarbonate plastic for prying harder materials such as thin walled aluminum engine covers and sheet metal panels.

Product Benefits: • Flexible • Slick surface for ease of prying • Built-in handle • Non-marring surface • Slim powerful angle

Multi Wedge Set Black (Hard) 3500 .....P/N 12-01672 ..... ---

Two Multi Wedge Sets - Orange (Soft) / Black (Hard) 3400/3500
P/N 12-01673 ..... ---

SEALANT CUTTERS

Sealant cutter quickly and safely removes thick applications of seam sealant for aircraft maintenance and repair. Eliminates the need for harsh chemicals. Saves time and effort. 1/4" x 28 Threaded Shank.

.40" Diameter.....P/N 12-02879 ..... ---
.83" Diameter.....P/N 12-02878 ..... ---

CSR-10 COMPOSITE SEALANT REMOVER

CSR is made from durable Torlon® material that can remove sealant in many applications at a lower product cost with greater efficiency and productivity. For aerospace applications, CSR is safe to use on common protective coatings and structural materials.

CSR series can be used with 1/4"-28 UNF, 1/4" collet, and drill chuck interfaces. Screw in or attach/lock into rotary tool.

CSR cuts by rotating in the clockwise direction. Operate the CSR at 200-400 RPM for better controllability while avoiding heat buildup. Heat will accelerate wear on the CSR and may generate undesirable odor from the sealant. For general applications, use the CSR-10 to engage an edge of the sealant and allow the rotating action to cut through at the bond line. **Specifications:** • Diameter: 1" • 1/4"-28 UNF .....P/N 13-23407 ..... ---

BOJO STRONG 90MM WIDE SCRAPERS

3" (90mm) Wide Edge Scraper Tool Extreme or CELCON Material ITH handle.

Extreme .....P/N 12-04766 ..... ---
Celcon .....P/N 12-04768 ..... ---

BOJO EXTREME EDGE SCRAPERS

Composite Angle or Concentrated Extreme Edge Scraper Tools. Angle: for Sharp edges & corners. Concentrated: for scraping power into small regions.

Angle .....P/N 12-04769 ..... ---
Concentrated.....P/N 12-04770 ..... ---

2 PIECE LONG AND NARROW PRY TOOL KIT

Includes: • 1 - For wedging & splitting deep into narrow locations. (Flat tip) • 1 - For prying in narrow and deep locations. (Pry tip).....P/N 12-04771 ..... ---

BOJO COMPOSITE ANGLED PUSH/ PULL EXTREME SCRAPERS

Includes: • 1 - Composite Angled Push/Pull Extreme Scraper • 1 - Composite Flat Push/Push Extreme Edge Scraper.....P/N 12-04772 ..... ---

BOJO SCRAPER EDGE

Narrow Edge Scraper Edge Scraper (1/4" Wide)
P/N 12-04773 ..... ---

BOJO SCRAPER 3MM WIDE

Narrow Edge Scraper Edge Scraper (1/8" Wide).
P/N 12-04774 ..... ---

BOJO 3 PIECE SMOOTHING KIT WITH POUCH

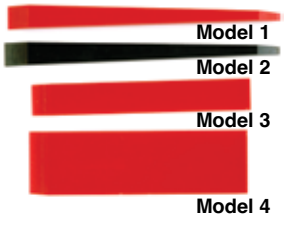
Sealant Smoothing Tool Kit "Extreme". Includes all three Bojo smoothing tools and vinyl pouch. Bojo Tools now offer a comprehensive range of sealant smoothing tools to complement the scraper systems supplied for aerospace, automotive and general industrial applications. Industry standard profiles and unique Bojo designed tips ensure economical, consistent and aesthetic application of all standard sealant types.....P/N 12-04775 ..... ---

SCRAPERITE BLADES

Scraperite® double-edged plastic blades and one holder. This original patented double-edged design is best for corner access and straight line scraping. It is the workhorse of the line, the blade series that helped build the brand and remains a key tool in many applications. These blades naturally lift dirt up and away without picking up germs and can be easily wiped with a disposable cloth after each stroke, unlike scrubbing pads and sponges that collect dirt with every pass. The Orange General Purpose (GPO) blade is a forgiving material soft enough to be used on most soft surfaces like other plastics, thanks to its natural lubricity and pliability. It also has good resistance to household and industrial chemicals making a great all-around blade for general use around the home or workplace. This resistance to chemicals makes it ideal for removing decals with chemicals like acetone used to quickly break down the acrylic adhesives. This material is approved by Alcoa and Boeing for use on aircraft alloys.

Orange (General Use) - 5 Pack.....P/N 12-05564 ..... ---

SEALANT REMOVAL TOOLS



These tools are full machined and/ or laser cut, which helps them retain a sharp edge. The tools are used by many defense contractors and Naval air stations for sealant application, sealant removal, paint removal, acrylic canopy contact, and general use. They are made from cell cast acrylic or black nylon as noteed. These tools can be resharpened on an abrasive belt or disc. Note: 15% Discount on 12 or more (Per P/N)

Model	Material	Part No.	Price
Model 1	Acrylic	12-02360	---
Model 2	Nylon	12-02361	---
Model 3	Acrylic	12-02362	---
Model 4	Acrylic	12-02363	---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MULTI-PURPOSE SCRAPER

This Muli-purpose scraper has a 2 1/4" wide blade ideal for more coverage. This scraper is ideal for lighter duty jobs. It has a blade cover for safety and a hole in the handle to hang for convenience. This scraper is disposable and does not have replacement blades available .....P/N 12-02371 ..... ---

OLFA MULTI-GRIP SCRAPER

The PP resin provides enhanced durability and high acetone-resistance. Handle is kept as thin as possible; its thickest part is only 7mm-thick. 4-3/4" Stainless steel blade is perfect for use with dishwashing liquid or dish bleach. Blade exchange needs no special tools.

Scraper.....P/N 12-04886 ..... ---
Replacement Blades (30 Pack).....P/N 12-04887 ..... ---

RECOIL KITS

The Recoil System is the simple way to repair stripped or damaged threads. It provides stronger and more efficient threads which have great holding power. The system is quick and easy to use and is ideal for alloys and other light materials. The recoil insert, which is larger in diameter than the tapped hole, is compressed during installation then allowed to spring back, permanently anchoring into place. The Recoil System consists of Recoil stainless steel helically wound precision inserts, high quality HSS taps and installation tools

* UNF - Unified Fine Thread
**UNC = United Coarse Thread
*** Metric = Metric & Spark Plug (ISO)

Kit Part No.	Size	Inserts per kit	Price
33004**	UNC Range Kit	50	---
34004*	UNF Range Kit	50	---
33058**	UNC Range Kit	15	---
34608*	UNF Range Kit	15	---
34048*	UNF Range Kit	15	---
34058*	UNF Range Kit	15	---
34068*	UNF Range Kit	15	---
34078*	UNF Range Kit	10	---
34088*	UNF Range Kit	10	---
35068***	M6X1	15	---
35088***	M8X1.25	15	---

1/4 INCH FEMALE QUICK COUPLER

Merlin™ air tool plugs deliver longer life and higher performance. This I/M Series Female Plug is constructed of durable steel and fits 1/4 in. couplers. The Industrial plug is rated at a maximum of 300 PSI of air pressure to power your pneumatic tools .....P/N 12-05183 ..... ---

MASTER CHUCK

These versatile Master Key Chucks are available in two sizes (small & large) which open sizes 1/4" to 3/4". These tools allow you to open over 1200 different key chucks. Save wear on chucks by always having the proper key size available. The squared center of the keys opens acetylene tanks. Made of treated steel with black oxide finish.

Small.....P/N 12-30165 ..... ---
Large .....P/N 12-30170 ..... ---

ALL-SHARP DIAMOND SHARPENER

All Sharp is an innovative diamond sharpener that provides 4 different grit sizes on the same tool. All Sharp sharpens and fine sharpens tools and bits and cleans burrs on hard to reach parts and equipment. It's tough stainless body will not rust and All Sharp fits in any tool tray or pouch.
Model ST-7.....P/N 12-21430. ..... ---

6-IN-1 COMBINATION SCREWDRIVER

• Industrial rated bits for extra long life • Heat treated 1/4" & 5/16" nut drivers • Interchangeable bits fit both Philips & Slotted screws • Bits: 3/16" Slotted; 9/32" Slotted; #1 Philips, #2 Philips.

P/N 12-14000 ..... ---

SMARTKNIFE+ 15 IN 1 MULTITOOL

The SmartKnife+ is a multi-tool wrapped around a super sharp 2.375" black oxidized pocket knife. The multi-tool handle features a small, medium and large flat driver, magnetic ¼" bit driver and holder, file, wire strippers, rulers, wrenches, pry bar, pocket clip and bottle opener, making this the smartest knife you can put in your pocket. P/N 13-25660 .....

PROP NUT TORQUE ADAPTOR WRENCHES

Drive	Socket	Length	Material	Part No.	Price
1/2"	9/16"	9"	Steel	12-06276	---
1/2"	5/8"	9"	Steel	12-06277	---
1/2"	11/16"	9"	Steel	12-06278	---
1/2"	3/4"	9"	Steel	12-06279	---
1/2"	13/16"	9"	Steel	12-06280	---
1/2"	7/8"	9"	Steel	12-06281	---

COAX CABLE CRIMPING TOOL

This 12 point, full ratchet crimping tool terminates precision BNC connectors in size RG 55,58,59,62,141,142,223,303 and 400. This crimper is built to MS22520 specifications and die set is included with the crimper. Specifications: Cable Groups: RG 55/58/59/62/141/142/223/303/400.....P/N 12-02378 ..... ---

3M™ CRIMPING TOOL TH-440

High carbon, heat-treated steel crimping tool that has a unique design that provides a high strength/weight ratio that crimps a broad range of 22-10 AWG terminals and connectors. P/N 12-01146 ..... ---

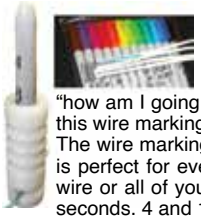
ATS ESD SAFE WIRE NIPPERS WITH FOD CLIP

These wire nippers have hardened jaws to cut up to 12 AWG copper wires without dulling. Plus it has a FOD catching clip that will hold the shipped ends of wires before they can fly off and become a safety hazard. It's also ESD save, which means that it will not hold a static charge, thus eliminating any chance of accidentally zapping your delicate electronics with static electricity. Convenient spring-loaded handles makes it easy to do one-handed work in confined areas .....P/N 12-05445 ..... ---

AT508K CANNON CONNECTOR PLIERS

The AT508K features serrated jaws for improved gripping and a slip joint for improved leverage. Ideal for all common cannon connector applications .....P/N 12-01627 ..... ---

WIRE MARKING TOOL



Ever been on your back looking up at a bunch of white wires or in a really tight space where only your arms and shoulders would fit and wonder, "how am I going to tell the difference between all of these wires?" this wire marking tool will allow you to do just that.

The wire marking tool works on wire from 24 ga to 8 ga. This tool is perfect for every mechanic and do it yourselfer. Mark just one wire or all of your wires before you start or while installing in just seconds. 4 and 12 pack of markers sold separately.

Wire Marking Tool .....P/N 12-02497 ..... ---
4 pack colors: Black, Blue, Red, Green.....P/N 12-02501 ..... ---
12 pack colors: Black, Blue, Green, Red, Orange, Yellow, Purple, Brown, Turquoise, Lime, Berry, & Aqua .....P/N 12-02503 ..... ---

POWER PRECISION SCREWDRIVER

General's Cordless Power Precision Screwdriver is ideal for ultra-delicate applications such as computer and electronics repair, hobbies and crafts. The 100+ RPM motor features forward and reverse controls, and the quick-change chuck allows for effortless swapping between 1/8" Slotted, Phillips and Torx bits. **Features**: • Cordless Precision Screwdriver (2 "AAA" alkaline batteries included) • 10+ hours of power • 100+ RPM motor with forward and reverse controls • Super-torque drive • Quick-change chuck • Ergonomic design allows for various comfortable grips • Precision bit assortment (1/8" drive) • Phillips: #00, #0 • Slotted: 1/16", 1/8" • Torx: T5, T6.....P/N 12-02308 ..... ---

AT 540M SCREW EXTRACTOR

This heavy duty screw extractor is designed with a .401 shank to fit most standard rivet guns and is held in place by a retainer spring. The square tip will accommodate 3/8" socket tool bit holders with inserts for removing hex, square, Phillips, or standard screws. Manufactured from high grade shock resistant tool steel. .....P/N 12-01632 ..... ---

SCREW REMOVAL TOOL

• Useful in removing screws that are corroded or have stripped heads • .401 Parker taper shank for use in rivet gun • 3/8" square drive with wrench. • Use standard Phillips or Slotted insert bits • Rivet gun required. **Note:** Does not include Tips .....P/N 12-00827 ..... ---

TO

TOOL KITS

RV BUILDER TOOL KIT

These RV builders tool kits are based on recommendations from the Van's Aircraft Builders Manual as well as on the tools that have been purchased from Aircraft Spruce by RV builders. It is an excellent tool kit for the construction of the RV4, 6, 7, 8, and 10 aircraft. They include an air drill, hand rivet squeezer, rivet sets and other tools of the highest quality. If you are building a RV-9 order 100 extra 3/32" clecos and 50 extra 1/8" clecos. If you are building a RV-10 kit, order 175 extra 3/32" clecos and 125 extra 1/8" clecos as well as the RV-10 bucking bar. See Chart Below for Components

Kit with 2x Rivet Gun.....P/N 12-00890 ..... ---
Kit with 3x Rivet Gun.....P/N 12-00899 ..... ---
RV-10 Bucking bar .....P/N 12-00903 ..... ---

RV BUILDER KIT COMPONENTS

Part No.	Description	Price
12-02004	2x Rivet Gun	---
12-00869	Avery Pnuematic Air Tool Reg.	---
12-00816	Air Drill (Pistol Type)4500rpm	---
12-00872	Avery Air Tool Oil	---
12-00177	Hand Riveting & Dimpling Tool	---
12-00605	Avery Poly. Dimpling Mallet	---
12-00320	3" Yoke For Hand Rivet Squeezer	---
12-00882	Avery 6pc Squeezer Set	---
12-00868	Avery Deluxe Dimple Die Kit	---
12-00613	Avery Pop Rivet Dimpler 3/32"	---
12-00611	Avery Vise Grip Dimpler 3/32"	---
12-00873	Avery 1/8" Dbl Offset Rivet St	---
12-00741	Avery Flush Swivel Rivet Set	---
12-07100-3	Avery Back Rivet Set 4-1/8"L	---
12-00609	Avery Fluting Plier	---
12-00608	Avery Hand Seamer 3-1/2" Jaw	---
12-10105	Cleco Pliers	---
12-00632	Avery Edge Rolling Tool	---
12-00618	Avery Back Riveting Plate	---
12-00876	Avery Cut/Polish Wheel Kit	---
12-03900	Unibit Step Drill # 3	---
12-18355	3m™ Rivet Tape 3/4" Green	---
12-04214	#40 Super Cobalt Drill (4pack)	---
12-04217	Super Cobalt Drill #30 (3pack)	---
12-14221	Super Cobalt Drill #21 (3pack)	---
12-04219	Super Cobalt Drill #27 (3pack)	---
12-00886	Avery #19 Cobalt Drill Bit 2pk	---
12-00885	Avery #12 Cobalt Drill Bit 2pk	---
12-00884	Avery 1/4" Cobalt Drill Bit	---
12-05200	Drill Bits 12" Long 3/32"	---
12-05300	Drill Bits 12" Long 1/8"	---
12-00867	Avery 4pc Drill Stop Set	---
12-00883	Avery 90° Angle Drill Kit	---
12-01412	Avery Micro-Stop Csnk Cage	---
12-00879	Avery #40 X 3/8" Csnk Cutter	---
12-00880	Avery #30 X 3/8 Csnk Cutter	---
12-00881	Avery #20 X 1/2" Csnk Cutter	---
12-00631	Avery Shop Hd Rivet Gauge Set	---
12-00633	Avery Rivet Length Gauge	---
12-00622	Avery Speed Deburr-Csink Tool	---
12-02547	Avery Royal Multi-Burr Tool	---
12-00629	Avery Double Edge Deburr Tool	---
12-00875	7a Deburring Wheel - Medium Grade	---
12-00870	Avery 3/32" Drive Pin Punch	---
12-00871	Avery 1/8" Drive Pin Punch	---
12-00889	Avery 360deg Swivel Pop Rvt Tl	---
13-11400	Standard Aircraft Handbook	---

KIT BUILDER AIRCRAFT TOOL KIT

Initially designed for the RV3, RV4 and RV6 builders, this kit has proven to be very popular with virtually all aircraft home builders. It contains our most popular rivet hammer and is an excellent tool kit for RV builders. Weight: 40 lbs.

P/N 12-01145 ..... ---

Part No.	Pcs.	Description
02-R18C-12	3	Jobber's Length Drill
02-R18C-28	3	
02-306-21	1	Integral Pilot Cutter
02-306-30	1	
02-306-40	1	
02-441	1	Countersink Cage
04-M-1/8	175	'M' Type Fastener
04-M-3/32	325	
04-1120	1	Fluting Plier
04-17	1	Rivet Cutter
02-22022	1	Multi-Burr w/5 Blades
04-62	1	Cleco Plier
07-10-4703	1	Rivet Set, 3-1/2" O.A.L.
07-10-4704	1	
07-10-4705	1	
07-10-4706	1	
07-10-500	1	Flush Set, 3-1/2" O.A.L.
07-20-4703	1	Offset Rivet Set, 3-1/2" O.A.L.
07-20-4704	1	
07-20-4705	1	

Part No.	Pcs.	Description
07-20-4706	1	Offset Rivet Set, 3-1/2" O.A.L.
07-20-500	1	
07-91	1	Mushroom Rivet Set
08-112	1	Bucking Bar
08-638	1	
08-647	1	
08-670	1	
09-RH-2	1	Handi Retainer Spring
10-420-2A	1	Hand Rivet Squeezer, 2" Yoke
17-3XSP	1	USATCO Rivet Gun
26-200-4703	1	Cupped Squeezer Set
26-200-4704	1	
26-200-4705	1	
26-210	2	Flush Squeezer Set
4263PDSB	1	Spring Back Punch &Die
4264PDSB	1	
62-54404	1	Plastic Kit Box
JSM-705	1	3/8" Reversible Air Drill
TP44	1	Hand Seamer

RV BUILDERS STARTER KITS

This scaled down version of this RV Builder's Kit contains just the tools you need to get your feet wet with sheet metal construction. The kit closely follows the recommended tools list from Van's RV TRAINING PROJECT-1 and their TOOL BOX KIT projects. This kit is also the minimum recommended set of tools to build the empennage (tail) section of the RV3, RV4, RV7, RV8, RV9, and RV10 series of home built airplanes. Start out with this kit, and when you're ready to do more advanced work, get the upgrade package to take you all the way up to the full RV Builder's Tool Kit.

Description	Part No.	Price
Starter Kit W/ 3x Rivet Gun	12-04850	---
Starter Kit W/ Pro 2x Rivet Gun	12-04851	---
Starter Kit W/ Pro 3x Rivet Gun	12-04852	---
Starter Kit Upgrade Package	12-04853	---

RV-12 QUICKBUILD TOOL KIT

This kit contains all the tools you need to build Van's exciting RV-12 Quickbuild Kit. The RV-12 has become an instant favorite of Light Sport Aviation (LSA) kitplanes because it's so remarkably easy to assemble. It requires virtually no sheet metal skills, and needs little more than a few hand tools. We've made your task even easier by bringing together all the tools you'll need into one complete kit, and priced it to be easy on your wallet. This kit is based on Van's recommended tool list, as well as recommendations from customers.....P/N 12-04849 .....

RV BUILDERS KITS

The RV Builder's Kit has been completely revised to conform to Van's recommended tool list for their very popular line of RV homebuilt airplanes. It contains all of the aviation tools and equipment needed to successfully assemble Van's Aircraft RV-3/3B, RV-4, RV-6/6A, RV-8/8A, RV-9/9A, and the newer RV-7/7A and RV-10 series homebuilt airplanes. It's also an excellent toolkit to assemble the Murphy family of kitplanes, including the Rebel, Elite, Maverick, and Super Rebel; The Precision Aero Mustang S-51D; The Skystar Kitfox; and any other metal airplane.

Description	Part No.	Price
RV Builders Kit W/ Econ 3x Rivet Gun	12-04854	---
RV Builders Kit W/ Pro 2x Rivet Gun	12-04855	---
RV Builders Kit W/ Pro 3x Rivet Gun	12-04856	---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

TOOL KITS

MASTER KIT BUILDERS KIT

The Master Kit Builders Kit (TP176MKB) contains all the tools supplied in the "RV" tool kit plus many more. It is designed to supply all the major, most commonly used tools for the building sheet metal aircraft. These items can be used on RV's, Zenair, Questair and Mustang Aeronautic Kits as well as many, many others. A huge savings can be realized by purchasing this kit over the individual tool price. Wt. 50 lbs .....P/N 12-00832 ..... ---

Part No.	Pcs.	Description
02-R10C-1/4	1	Jobber's Length Drill
02-R18C-12	2	
02-R18C-30	4	
02-R18C-40	6	
02-306-21	1	Integral Pilot Cutter
02-306-30	1	
02-306-40	1	
02-441	1	Countersink Cage
04-M-1/8	175	'M' Type Fastener
04-M-3/32	325	
04-1120	1	Fluting Plier
04-17	1	Rivet Cutter
02-22022	1	Multi-Burr w/5 Blades
04-63	1	Cleco Plier w/Comfort Grips
07-10-4703	1	Rivet Set, 3-1/2" O.A.L.
07-10-4704	1	
07-10-4705	1	
07-10-4706	1	
07-170	1	Flush Mushroom Set w/Guard
07-20-4703	1	Offset Rivet Set, 3-1/2" O.A.L.
07-20-4704	1	
07-20-4705	1	
07-20-4706	1	
07-20-500	1	
07-90	1	Mushroom Rivet Set

Part No.	Pcs.	Description
08-112	1	Bucking Bar
08-638	1	
08-647	1	
08-670	1	
09-RH-2	1	Handi Retainer Spring
10-37001	1	POP Swivel Hand Riveter
10-420-2A	1	Hand Rivet Squeezer, 2" Yoke
17-3XSP	1	USATCO Rivet Gun
18-DS-1/4	1	Drill Stop
18-DS-10	1	
18-DS-30	1	
18-DS-40	1	
26-200-4703	1	Cupped Squeezer Set
26-200-4704	1	
26-200-4705	1	
26-210	2	Flush Squeezer Set
4263PDSB	1	Spring Back Punch! Die
4264PDSB	1	
53-120	1	POP Dimple Tool
53-70453	1	3 Piece Aviation Snip Set
61-13551	1	Hole Cutter
62-54405	1	Plastic Kit Box
JSM-705	1	3/8" Reversible Air Drill
TP44	1	Hand Seamer

MASTER AIRCRAFT TOOL KIT

This 121-piece complete Aircraft mechanics Kit is excellent for aircraft restoration, repair and manufacturing. It is ideal for the A & P mechanic, student and homebuilder. Kit comes with everything from sheet metal tools to riveting tools in a two-drawer tool chest. This kit includes the top quality riveting hammer manufactured in the U.S.A. Wt. 48 lbs.
P/N 12-01126 ..... ---

Part No.	Pcs.	Description
02-2962-21	1	Threaded Shank Adapter Drill
02-2962-30	1	
02-2962-40	1	
02-306-21	1	Integral Pilot Cutter
02-306-30	1	
02-306-40	1	
02-441	1	Countersink Cage
02-1120	1	Fluting Plier
04-200	1	Chip Chaser
04-5S	1	Hand Metal Punch Kit
04-501	1	Heavy-Duty Rivet Cutter
6-Apr	1	Nibbling Hand Tool
Apr-62	1	Cleco Plier
04-EL-1/2-1	3	Side Grip Fastener
04-EL-1/2-1/2	2	
04-M-1/8	10	'M'Type Fastener
04-M-3/16	10	
04-M-3/32	10	
04-M-5/32	10	
04-WNX-1/8	5	Wing Nut Fastener
04-WNX-3/16	5	
04-WNX-3/32	5	
04-WNX-5/32	5	
07-10-4703	1	Rivet Set, 3-1/2" O.A.L.
07-10-4704	1	
07-10-4705	1	
07-10-4706	1	
07-10-500	1	Flush Rivet Set
07-170	1	Flush Mushroom Set w/ Guard
07-20-4703	1	Offet Rivet Set, 3-1/2" O.A.L.
07-20-4704	1	

Part No.	Pcs.	Description
07-20-4705	1	Offet Rivet Set, 3-1/2" O.A.L.
07-20-4706	1	
07-20-500	1	Offset Flush Set
08-112	1	Bucking Bar
08-638	1	
08-647	1	
08-670	1	
10-420-2A	1	Hand Rivet Squeezer, 2" Yoke
149-1	1	Wrench (for Cone Jaw Chuck)
15-1580	1	Junior Air Vac
17-3XSP	1	Rivet Gun
18-DS-10	1	Drill Stop
18-DS-21	1	
18-DS-30	1	
18-DS-40	1	
20-127-4S	1	90°Angle Drill Attachment
20-M3	1	Cone Jaw Chuck
26-200-4703	1	Cupped Squeezer Set
26-200-4704	1	
26-200-4705	1	
26-210	1	Flush Squeezer Set
46-231-1	1	Strap Duplicator
46-231-2	1	
46-231-3	1	
46-231-5	1	
53-70453	1	3 Piece Aviation Snip Set
62-54405	1	Plastic Kit Box
75HP575	1	Sheet Metal handbook
JSM-705	1	3/8" Reversible Air Drill
TP44	1	Hand Seamer

TP83 & TP84 RIVET GUN KIT

Virtually all the tools you need for riveting in kit form. Intended for professional sheet metal mechanics, serious home builder/ students. Packed in a sturdy molded plastic case. #1 selling kit.
Kit with TP83(3x) Gun .....P/N 12-00240 ..... ---

Part No.	Description
07-10-4703	3/32" Rivet Set, 3-1/2" O.A.L.
07-10-4704	1/8" Rivet Set, 3-1/2" O.A.L.
07-10-4705	5/32" Rivet Set, 3-1/2" O.A.L.
07-10-4706	3/16" Rivet Set, 3-1/2" O.A.L.
07-11-4704	1/8" Rivet Set, 5-1/2" O.A.L.
07-11-4705	5/32" Rivet Set, 5-1/2" O.A.L.
07-11-4706	3/16" Rivet Set, 5-1/2" O.A.L.
07-11-4703	Flat Rivet Set
07-140	Offset Flush Mushroom Set
07-170	Flush Mushroom Rivet Set w/Guard
07-20-4703	3/32" Offset Rivet Set, 3-1/2" O.A.L.
07-20-4704	1/8" Offset Rivet Set, 3-1/2" O.A.L.

Part No.	Description
07-20-4705	5/32" Offset Rivet Set, 3-1/2" O.A.L.
07-92	Flush Mushroom Rivet Set
08-111	Bucking Bar
08-112	Bucking Bar
08-669	Bucking Bar
08-670	Bucking Bar
09-140	Power Regulator
09-RB-2	Beehive Retainer Spring
09-RH-2	Handi Retainer Spring
17-___	Rivet Gun
62-14	Molded Plastic Carrying Case

DELUXE STUDENT TOOL KIT

This kit meets most school requirements for basic sheet metal tools. These high quality tools will take the student through school and into the profession for years of outstanding service. It contains the most popular rivet hammer and is a great starter kit. Wt. 14 lbs.....P/N 12-01127 .....---

Part No.	Pcs.	Description
0210A-3/32	3	Jobber's Length Drill
0210A-1/8	3	
0210A-5/32	3	
0210A-3/16	3	
0210A-1/4	3	
02-306-21	1	Integral Pilot Cutter
02-306-30	1	
02-306-40	1	
04-M-1/8	10	'M' Type Fastener
04-M-3/16	10	
04-M-3/32	10	
04-M-5/32	10	
02-441	1	Countersink Cage
04-501	1	Rivet Cutter
04-62	1	Cleco Plier
08-670	1	Bucking Bar

Part No.	Pcs.	Description
09H-2	1	Handi Retainer Spring
09B-2	1	Beehive Retainer Spring
09-140	1	Power Regulator
17-3	1	Rivet Gun
07-10-4703	1	Rivet Set, 3-1/2" O.A.L.
07-10-4704	1	
07-10-4705	1	
07-10-4706	1	
07-170	1	Mushroom Set w/ Guard
18-D -10	1	Drill Stop
18-D -21	1	
18-D -30	1	
18-D -40	1	
62-297	1	Canvas Tool Bag
JSM-705	1	3/8" Reversible Air Drill

GLASTAR TOOL KIT

This kit is designed for all new Glastar kit aircraft. The tools included are recommended by the manufacturer, specifically for the assembly of the sheet metal portion of the kit. Many of these tools are of top quality, and designed to last. They are all covered by a 30 day unconditional money back guarantee .....P/N 12-00831 ..... ---

Part No.	Pcs.	Description
02-2962-21	1	Hreaded Shank Drill
02-2962-30	1	
02-2962-40	1	
02-306-21	1	Pilot Cutters Countersink
02-306-30	1	
02-306-40	1	
02-306-30-120	1	Pilot Countersink 120°
02-441	1	Countersink Cage
02-501-12-40	3	12" Aircraft Extension Drill
02-501-6-30	3	6" Aircraft Extension Drill
02-501-6-40	3	
02-C1-H	1	Drill Sets 60 (Number Sizes)
02-R10B-1/16	3	Jobbers Length Drill
02-R10B-1/4	3	
02-R10B-11/64	3	
04-200	1	Chip Chaser
04-20SL	1	Offset Snips Left Handed
04-20SR	1	Offset Snips Right Handed
04-22022	1	Multi/Burr-5 5 Blades Included
04-3090-1/2	2	Spring Tension Clamps A-1/2" D-3-1/2"
04-62	1	Cleco Plier For Sheet Metal Fastners
04-EL-1/2-1/2	10	Side Grip Fastener Capacity-0-1/2" Reach 1"
04-EL-3/4-1/2	10	
04-K380	1	Deburr Tool W/ 3/4" Blade
04-M-1/8	150	'M' Type Sheet Metal Fastener
04-M-3/16	25	
04-M-3/32	250	
04-K380	1	Deburring Tool
04-M-1/8	150	'M' Type Sheet Metal Fastener
04-M-3/16	25	
04-M-3/32	250	
07-10-4703	1	Rivet Set, 3-1/2" O.A.L.
07-10-4704	1	
07-10-4706	1	
07-170	1	Mushroom Rivet Set
08-638	1	Bucking Bar
08-647	1	
08-721	1	
08-760B-1	1	
09-140	1	Power Regulator
10-37001	1	360° Pop Riveter
1245	1	12" Flex Ruler
17-3XSP	1	Rivet Gun
20-127-4S	1	90° Angle Drill Attachment
53-211-4263	2	Rivet Squeezer Punch & Die Set
53-211-4264	2	
53-420-2A	6	Hand Squeezer Kit
53-RBH-2	2	Beehive & Handi Retainer Spring
61-860	1	Center Punch & Scribe
62-54405	1	Kit Box-Plastic & Metal
CP-785	1	Air Drill, Reversable 3/8" Chuck

TO

TOOL KITS

DELUXE RIVETING KITS

Deluxe Riveting Kit contains everything needed to build and maintain all metal aircraft. This kit is highly recommended for the professional mechanic or the experienced home builder.

Description	Part No.	Price
Deluxe Riveting Kit With Econ 3x Rivet Gun	12-04833	---
Deluxe Riveting Kit With Pro 2x Rivet Gun	12-04834	---
Deluxe Riveting Kit With Pro 3x Rivet Gun	12-04835	---
Deluxe Riveting Kit With Pro 4x Rivet Gun	12-04836	---

MASTER BUILDERS KITS

The Master Builder's Kit is the most comprehensive riveting kit. It contains the tooling needed to build some of the most popular aluminum airplanes, including the RV series, the Thorp T-18, the Midget Mustang, and many others. This kit is also very popular with airframe mechanics needing an all-in-one riveting kit.

Description	Part No.	Price
Master Builders Kit W/ Econ 3x Rivet Gun	12-04837	---
Master Builders Kit W/ Pro 2x Rivet Gun	12-04838	---
Master Builders Kit W/ Pro 3x Rivet Gun	12-04839	---

ACU CENTER TOOL KIT

This Acu-Center tool is a precision measuring aid designed to provide fast, repeatable rod end service and replacement by providing its user with the most accurate rod end adjusted length measurement possible. This is accomplished through the Acu-Center's precision fit, rod end / ball centering flange and absolute zero measuring point.
AGM 1' ACU-Center only not a Kit.....P/N 12-05545 ..... ---

AVIONICS MAINTENANCE KIT

This Avionics Maintenance Kit has all of the essential tools to work on every aspect of aircraft electronics systems. Whether it's a simple electrical repair or a complete system rewire, you'll find this kit indispensable in getting the job done quickly and professionally.....P/N 12-04823 ..... ---

LOYD'S RIVET DRILL GUIDE

This set is designed one size under bore and hardened C1144 steel for long life. The drill lube is to ensure smooth minimal friction between the drill bit and the guide, cooling the bit, keeping it from galling, which aids in longer drill and guide life. Dip drill bit in lubricant at least once for every rivet. The guides are easy to use. First select the appropriate guide for the rivet being drilled. The guides allow you to drill straight and center every time. They are compact, easy to grip and easy to spot if dropped. They were designed to eliminate double drilled holes and drill bits "skating" off of rivets.....P/N 12-03749 ..... ---

RV-12 QUICKBUILD KIT

This kit contains all the tools you need to build Van's exciting RV-12 Quickbuild Kit. The RV-12 has become an instant favorite of Light Sport Aviation (LSA) kitplanes because it's so remarkably easy to assemble. It requires virtually no sheet metal skills, and needs little more than a few hand tools. We've made your task even easier by bringing together all the tools you'll need into one complete kit, and priced it to be easy on your wallet. This kit is based on Van's recommended tool list, as well as recommendations from customers..... P/N 12-04849 ..... ---

ENGINE SPECIALIST KIT

This kit is designed for the engine and powerplant specialist. It contains an array of tools and equipment to take apart, check, inspect, overhaul, and re-assemble just about any type of Aircraft Engine, including all models of Continental and Lycoming.....P/N 12-04824 ..... ---

JOURNEYMANS KIT

This Journeyman kit is for the aspiring A&P Mechanic or Homebuilder who needs a comprehensive professional kit, but is not yet ready for a Master Kit. It contains a broad selection of tools used frequently by the Airframe Mechanics at a price that's affordable to those Journey Mechanics starting out in the field.

Description	Part No.	Price
JBK-2602a w/2602a Econ 3x Gun	12-04825	---
JBK-2x w/ATS Pro 2x Rivet Gun	12-04826	---
Journeyman Builders Kit w/3x Rivet Gun	12-04827	---
Journeyman Builders Kit w/Pro 4x Rivet Gun	12-04828	---

TO

PRO X-SERIES RIVET GUNS

The standard tool used in aircraft manufacturing plants such as Boeing and Lockheed-Martin has just gotten better! The popular X-Rivet Guns have been retooled to make them smoother and more powerful, while still keeping them completely interchangeable with Chicago Pneumatic rivet guns. They are slow hitting with excellent finger tip control.

1/8" Aluminum (3/32" Steel) Rivet Capacity. Accepts all .401 shank rivet sets and attachments. Non-slip Powder Coat Finish. 1/4" NPT Inlet. Lifetime ATS-Pro Warranty.

Model No.	BPM	Capacity	Stroke	Part No.	Price
2X	2580	1/8"	2-1/4"	12-04857	---
3X	2160	3/16"	2-7/8"	12-04858	---
4X	1740	1/4"	3-1/16"	12-04859	---

ATS FIELD RIVETING KITS

The ATS Pro Field Kit features top of the line tools. In it you get the best-selling Palm Drill (featuring a true variable speed trigger from 0 to 2600 RPM), plus an assortment of cobalt drill bits in the 4 most commonly use sizes (#40, #30, #21, and #11).

For perfect riveting jobs, ATS gives you the ATS Pro Rivet Gun with feather trigger (including springs), two of ATS most popular Tungsten bucking bars, and a full set of riveting snaps. Included is a set of rivet gauges to make sure you get things right, and a bottle of oil to keep those tools running at peak performance.

It all comes to with a quality shadow-foamed hard tool case, making this the kit you will want to show off!

Black.....P/N 12-05449 ..... ---
Red.....P/N 12-05449-1 ..... ---
Black.....P/N 12-05450 ..... ---

AHRS SYSTEMS TOOL KIT

The fittings capture the tubing with stainless steel retainers. By suppressing the release ring (around the tubing entry port on the fitting), the tubing is easily removed. Within just a few minutes, you'll be able to disconnect and reconnect tubing. O-ring seals, and maintaining precise tubing diameter during the manufacturing process, ensures a reliable seal. For Experimental Aircraft ONLY. Applicability and suitability of this kit is the responsibility of the builder. Kit Includes: • 2 x 102559-000, Static Port Alum 3/8" NPT • 2 x 102630-000, Fitting Tube Pneumatic Strt Female 1/4" OD PTC X 1/8" NPT • 6 x 102631-000, Fitting Tube Pneumatic Strt Male 1/4"OD PTC X 1/8" NPT • 2 x 102631-001, Fitting Tube Pneumatic Elbow Male 1/4" OD PTC X 1/8" NPT • 25' x 102632-000, Tube Pneumatic Polyethylene 0.17 ID X .25 OD BLU • 25' x 102632-001, Tube Pneumatic Polyethylene 0.17 ID X .25 OD GRN • 35' x 102632-002, Tube Pneumatic Polyethylene 0.17 ID X .25 OD Natural • 3 x 102639-000, Fitting Tube Pneumatic Y Union 1/4" OD • 1 x 102639-001, Fitting Tube Pneumatic T Union 1/4" OD • 1 x 102641-000, Tube Cutter • 30 x 102642-000, Snap Bushing • 2 x 102643-000, Sleeve Alum Coupling Tube 3/16" OD • 2 x 102644-000, Fitting Alum Flared Tube and Pipe Thread 3/16" OD

P/N 12-03283 ..... ---

PILOTS TOOL KIT

The fleet of general aviation aircraft is aging. Mandated maintenance promotes reliability, but experienced pilots know mechanical issues can still arise, sometimes far from an open FBO. This Pilot's Tool Kit provides the most common tools and other contents to help get you airborne, including a set of combination wrenches, 8" adjustable wrench, tire pressure gauge, locking pliers, 6-in-1 screwdriver, hex wrenches, and diagonal cutters. A special aviation spark plug socket handles most spark plug makes, and a way-cool mini-ratchet and socket set provide additional utility. Finally, a telescopic mirror, cable ties, and 30 feet of aviation-grade safety wire are included. Everything is nicely organized into a tough roll-up pouch.....P/N 12-03772 ..... ---

BLUE PNEUMATIC R AND D HAND TOOL KIT BP-738K METRIC

BP-738 Hand Tool. Mandrels including M3, M4, M5, and M6. Also includes 40 total pcs of assorted rivet nuts that match included mandrels. Comes in molded plastic case .....P/N 12-04871 ..... ---

EFIS SYSTEMS TOOL KIT

The fittings capture the tubing with stainless steel retainers. By suppressing the release ring (around the tubing entry port on the fitting), the tubing is easily removed. Within just a few minutes, you'll be able to disconnect and reconnect tubing. O-ring seals, and maintaining precise tubing diameter during the manufacturing process, ensures a reliable seal. For Experimental Aircraft ONLY. Applicability and suitability of this kit is the responsibility of t • 1 - Union Tee • 2 - Union 90° • 2 - Synthetic Rubber Grommet • 30 - Snap Bushing • 2 - Female Connector • 2 - Static Port • 2 - AN Hardware Assembly • 1 - 25' 1/4" Green Tubing (Pitot) • 1 - 32' 1/4" White Tubing (Static) • 1 - 23' 1/4" Blue Tubing (AOA) .....P/N 12-03284 ..... ---

ZENAIR HAND RIVETER

Hand Riveter with Custom Machined Heads. Riveter Heads (changeable Nose Bushing piece). ZENAIR blind (or pulled) rivets have been used to construct the all-metal Chris Heintz designs since the 1970s, and make riveting a quick and easy process! The ZENAIR riveting system forms the rivet head as the blind rivet is pulled, providing a low profile dome finish and high shear strength. Fast installation, simple tools and low cost make this a popular riveting system with homebuilders! **Note**: The riveter is supplied with the custom machined heads, required for the Zenair blind rivets ((for use with Zenair blind rivets, sold separately).....P/N 12-03713 ..... ---

ZENAIR PNEUMATIC RIVETER

Pneumatic Riveter with Custom Machined Heads for use with Zenair blind rivets, sold separately ZENAIR blind (or pulled) rivets have been used to construct the all-metal Chris Heintz designs since the 1970s, and make riveting a quick and easy process! The ZENAIR riveting system forms the rivet head as the blind rivet is pulled, providing a low profile dome finish and high shear strength. Fast installation, simple tools and low cost make this a popular riveting system with homebuilders! Note: The riveter is supplied with the custom machined heads, required for the Zenair blind rivets, for use with Zenair blind rivets, sold separately.....P/N 12-03712 ..... ---

ZENAIR BLIND RIVETS

These rivets are corrosion resistant, and the stem becomes locked in after being set. Also, not many different lengths are required for different diameters or thicknesses. In the Assembly Instructions, they are designated as A4 (1/8) and A5 (5/32).

Note: Sold in packages of 100.

Description	Length	Grip	Drill	Min. Single Shear Length	Part No.	Price
A4 Blind Rivet	1/8" / 3.2mm	1/4" / 6.4mm	#30	110 lbf / 50kg	12-05538	---
A5 Blind Rivet	5/32" / 4mm	5/16" / 7.9mm	#20	180 lbf / 80kg	12-05539	---

NUMATX HTS-C3K HYDRAULIC RIVET SQUEEZER

The Numatx HTS-C3K C-Squeezer System is a hydraulically operated hand held tool, designed to squeeze up to 1/8" diameter aircraft grade rivets (AD alloy). This unit is hydropneumatic operated (also known as pneudraulic). The system is comprised of an HTC-3 hand-held C-Squeezer unit and an HTI-10 Pressure Intensifier. The fully hydraulic C-Squeezer offers the advantages of decreased weight, smaller size, and constant force when compared to traditional pneumatic only squeezers. This reduces operator fatigue, allows for use in more confined areas, and improves control of the s2queezing action (feathering operation). The units are built from high-quality aircraft grade materials, with parts made on CNC machining centers and features held to close tolerances, for years of dependable operation.

Description	Part No.	Price
System Only - No Yoke	12-05135	---
System with 1.5 in Yoke	12-05136	---
System with 3 in Yoke	12-05137	---
System with 4 in Yoke	12-05138	---

NOVA® STRAIGHT GRINDER

Maximum Air Pressure: 90 PSI **Standard Equipment Includes:** • 1/4" Erikson Collet • Two Collet Wrenches **Capacity**: • 1/8", 1/4" Shank Carbide Burs • 1" Mounted Wheel • 3" Cut off Wheel • 25,000 RPM **Features**: • .3 HP • Air Inlet: 1/4-18 NPT • Rear Exhaust • Motor housing milled from solid bar for precision motor alignment. • Motor cylinder and rotor are hardened alloy steel to ensure proper alignment and long life. • Smooth Quiet Operation P/N 12-05591 ..... ---

NOVA® 90° GRINDER

Maximum Air Pressure: 90 PSI **Standard Equipment Includes**: • 1/4" Erikson Collet • Two Collet Wrenches **Capacity**: • 1/8", 1/4" Shank Carbide Burs • 1" Mounted Wheel • 3" Cut off Wheel **Features**: • .3 HP • Air Inlet: 1/4-18 NPT • Rear Exhaust • Motor housing milled from solid bar for precision motor alignment. • Motor cylinder and rotor are hardened alloy steel to ensure proper alignment and long life. • Smooth Quiet Operation

12,000 RPM.....P/N 12-05593 ..... ---
20,000 RPM.....P/N 12-05592 ..... ---

NOVA® 5 1/2 INCH EXTENDED LONG REACH GRINDER

Maximum Air Pressure: 90 PSI **Standard Equipment Includes**: • 1/4" Erikson Collet • Two Collet Wrenches **Capacity**: • 1/8", 1/4" Shank Carbide Burs • 1" Mounted Wheel • 3" Cut off Wheel • 25,000 RPM **Features**: • .3 HP • Air Inlet: 1/4-18 NPT • Rear Exhaust • Motor housing milled from solid bar for precision motor alignment. • Motor cylinder and rotor are hardened alloy steel to ensure proper alignment and long life. • Smooth Quiet Operation.....P/N 12-05594 ..... ---

NOVA® STRAIGHT GRINDER FRONT EXHAUST

Maximum Air Pressure: 90 PSI **Standard Equipment Includes**: • 1/4" Collet • Two Collet Wrenches **Capacity**: • 1/8", 1/4" Shank Carbide Burs • 1" Mounted Wheel • 4" Cut off Wheel • 18,000 RPM / 20, 000 RPM **Features**: • -18,000 RPM • .9 HP • Air Inlet: 1/4-18 NPT • Front Exhaust • Motor housing milled from solid bar for precision motor alignment. • Motor cylinder and rotor are hardened alloy steel to ensure proper alignment and long life. • Smooth Quiet Operation

18,000 RPM.....P/N 12-05595 ..... ---
22,000 RPM.....P/N 12-05596 ..... ---

NOVA® PENCIL GRINDER

• Smooth Quiet Operation • 1/8" Collet • 60,000 RPM • Hardened Alloy Steel Cylinder • Rear Exhaust With Over Hose Muffler • Motor housing milled from solid aluminum bar for precision motor alignment • Maximum Air Pressure 90 PSI • Includes Two Wrenches, Hose,and Air Fitting.

P/N 12-05597 ..... ---

NOVA® 90° ANGLE HEAD

• The #1 industry best seller, a must have for all mechanics. • Accepts 1/4-28 Threaded Angle Bits. • Capacity: 1/4" • Angle Head may be rotated 360° for superior operator control • Air Inlet 1/4-18 NPT • Motor housing milled from solid bar for precision motor alignment • Motor cylinder and rotor are hardened alloy steel to ensure proper alignment and long life • Smooth quiet operation • One Year Warranty

P/N 12-05599 ..... ---

NOVA® 90° HEAVY DUTY ANGLE HEAD

• Capacity: 1/4" • Rear Exhaust Angle Head may be rotated 360° for superior operator control • Air Inlet 1/4-18 NPT P/N 12-06484 ..... ---

NOVA® 3000 RPM COMPACT MOTOR HOUSING WITH 90° ANGLE HEAD

• Accepts 1/4-28 Threaded Angle Bits • Capacity: 1/4" • Rear Exhaust • Angle Head may be rotated 360° for superior operator control • Air Inlet 1/4-18 NPT P/N 12-06488 ..... ---

NOVA® 90° FLAT OFFSET COMPACT ANGLE HEAD

• Accepts 1/4-28 Threaded Angle Bits • Capacity: 1/4" • Rear Exhaust • Angle Head may be rotated 360° for superior operator control • Air Inlet 1/4-18 NPT

P/N 12-06487 ..... ---

NOVA® 45° ANGLE HEAD

• Accepts 1/4-28 Threaded Angle Bits • Capacity: 1/4" • Rear Exhaust • Angle Head may be rotated 360° for superior operator control • Air Inlet 1/4-18 NPT • Motor housing milled from solid bar for precision motor alignment • Motor cylinder and rotor are hardened alloy steel to ensure proper alignment and long life • Smooth quiet operation • One Year Warranty • For those hard to get to areas • This industry standard tool is a must have for every mechanic • Scroll down to purchase complete Nova tool.....P/N 12-05601 ..... ---

NOVA® ORBITAL SANDER

• Standard Equipment Includes: 2" and 3" Holder • Maximum Air Pressure: 90 PSI • Air Inlet 1/4-18 NPT • Rear Exhaust • 12,000 RPM • Motor housing milled from solid bar for precision motor alignment • Motor cylinder and rotor are hardened alloy steel to ensure proper alignment and long life • Orbital Action produces a swirl free surface • Smooth quiet operation • Shown with 3" disc holder. Compact design and 90° Angle head for tight work areas.

P/N 12-05598 ..... ---

NOVA COMPACT PISTOL GRIP DRILLS

• Feathering Trigger Allows Operator Complete Control of Speed • 360° Rotatable Exhaust • Quiet Smooth Operation • Air Inlet 1/4-18 NPT • Rubber Grip for Operator Comfort • One Year Warranty

1/4 Inch Chuck and Key .....P/N 12-05587 ..... ---
1/4 Inch Keyless Chuck.....P/N 12-05588 ..... ---
3/8 Inch Chuck and Key .....P/N 12-05589 ..... ---

NOVA® LONG REACH 90° ANGLE HEAD

• Accepts 1/4-28 Threaded Angle Bits • Capacity: 1/4" • Rear Exhaust

• Angle Head may be rotated 360° for superior operator control • Air Inlet 1/4-18 NPT.....P/N 12-06486 ..... ---

NOVA COMPACT PISTOL GRIP DRILLS

• Feathering Trigger Allows Operator Complete Control of Speed • 360° Rotatable Exhaust • Quiet Smooth Operation • Air Inlet 1/4-18 NPT • 1/4" Keyless Chuck or Chuck and Key • One Year Warranty

2600 RPM with 1/4 Inch Chuck and Key.....P/N 12-06489 ..... ---
2600 RPM with 1/4 Inch Keyless Chuck.....P/N 12-06490 ..... ---
3200 RPM with 1/4 Inch Chuck and Key.....P/N 12-06493 ..... ---
3200 RPM with 1/4 Inch Keyless Chuck.....P/N 12-06494 ..... ---
4000 RPM with 1/4 Inch Chuck and Key.....P/N 12-06491 ..... ---
4000 RPM with 1/4 Inch Keyless Chuck.....P/N 12-06492 ..... ---

COMPACT PISTOL GRIP REVERSIBLE DRILL 2000 RPM WITH 1/4 CHUCK KEY

• Feathering Trigger Allows Operator Complete Control of Speed • 360° Rotatable Exhaust • Air Inlet 1/4-18 NPT

2000 RPM with 1/4 Inch Chuck and Key.....P/N 12-06495 ..... ---
3100 RPM with 1/4 Inch Chuck and Key.....P/N 12-06496 ..... ---

NOVA® 360° ANGLE HEAD WITH .5 HORSEPOWER MOTOR

• Accepts 1/4-28 Threaded Angle Bits • Capacity: 1/4" • Rear Exhaust • Angle Head may be rotated 360° for superior operator control..... P/N 12-06483 ..... ---

NOVA® STANDARD MOTOR HOUSING WITH 45° ANGLE HEAD

• Accepts 1/4-28 Threaded Angle Bits • Capacity: 1/4" • Rear Exhaust • Angle Head may be rotated 360° for superior operator control

2800 RPM with 90° Head ..... P/N 12-06479 ..... ---
3200 RPM with 90° Head ..... P/N 12-06482 ..... ---
900 RPM with Long Reach 90° Head..... P/N 12-06485 ..... ---

NOVA® STANDARD MOTOR HOUSING WITH 45° ANGLE HEAD

• Accepts 1/4-28 Threaded Angle Bits • Capacity: 1/4" • Rear Exhaust • Angle Head may be rotated 360° for superior operator control.

2800 RPM with 45° Head ..... P/N 12-06480 ..... ---
3200 RPM with 45° Head ..... P/N 12-06481 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RIVETING HAMMERS

RIVETING HAMMERS

These high quality riveting hammers are excellent for all light aircraft metal riveting applications. They feature a convenient offset handle (except Model US3AA which is straight handle) and come complete with retainer spring and regulator. All models feature metered teasing trigger, made in U.S.A.

Part No.	Blows / Min.	Capacity		Stroke	Length	Weight (Lbs.)	Price
		Alum.	Bore				
US1X	3600	1/8”	9/16”	1-1/2”	5-11/16”	2	---
US2X	2580	1/8”	1/2”	2-1/4”	6-11/16”	2-1/4	---
US5X	1560	1/4”	3/4”	2-11/16”	6-11/16”	4-3/4	---
US7X	900	3/8”	3/4”	5-13/16”	8-5/16”	6	---

AIRCRAFT RIVET GUNS

The standard tool used in aircraft manufacturing plants such as Boeing, Rockwell, Lockheed etc., is completely interchangeable with Chicago Pneumatic. These tools are slow hitting with excellent finger tip control. Accepts all .401 shank rivet sets and attachments. All guns are brand new and carry a full 1 year warranty.

Part No.	Blows / Min.	Capacity Alum.	Bore	Stroke	Weight (Lbs.)	Price
2X	2580	1/8”	1/2”	2-1/4”	2.7	---
3X	2160	3/16”	1/2”	2-7/8”	3.4	---
4X	1740	1/4”	1/2”	3-1/16”	3.6	---

PNEUMATIC RIVET SQUEEZER

Heavy duty industrial tools are manufactured to exacting standards to insure long service life. All critical parts, including the yoke, are fabricated from 4130 steel and heat treated to Rc 42-46. These rivet squeezers have earned a reputation for durability and reliability through years of service on the production lines of major airframe manufacturers such as Grumman, Piper, Beech and Cessna. Easily operated by one hand. All replacement parts and other yoke designs available. Features feathering throttle.

Specification	Model	
	3000	6000
Max. Force	3000	6000
Rivet Capacity Dural	1/8”	3/16”
Steel	3/32”	5/32”
Standard Yoke Reach	2”	2”
Air Hose Size	1/4”	1/4”
Set Travel	9/16”	9/16”
Recommended Line Pressure	90 PSI	90 PSI
Weight	6 lbs.	6 lbs.

3000.....P/N 12-03400 ..... ---
6000.....P/N 12-03500 ..... ---

SNAP SOC RIVET SET CAPS

Insert these caps onto the ends of your rivet sets to provide a protective zone between the rivet set and the rivet. Helps to prevent against damage to the rivet or adjoining aircraft skin. Color coded for easy use. Each cap lasts for approximately 50-70 rivets. Sold in Packs of 10. Colors: White (3/32”), Orange (1/8”), Green (5/32”), Yellow (3/16”), Blue (1/4”). Note: Rivet Set pictured is not included.

3/32 White (Pk of 10) .....P/N 12-03363 ..... ---
1/8 Green (Pk of 10).....P/N 12-06447 ..... ---
5/32 Green (Pk of 10).....P/N 12-03365 ..... ---
3/16 Yellow (Pk of 10).....P/N 12-03366 ..... ---
1/4 Blue (Pk of 10) .....P/N 12-03367 ..... ---

TP82 AND TP84 RIVET GUNS

This “X” type feathering trigger riveter is the only rivet gun that allows you to slowly begin riveting without damage to the skin. This is critical in performing riveting operations. This gun is used by aircraft mechanics worldwide. It’s also the perfect tool for kit builders. **Note:** Long term exposure to low frequency vibration caused by riveting may be harmful to your hands and arms. We suggest you take frequent breaks when riveting to reduce this exposure. **Features**: • Takes .401 shank rivet sets • Lightweight aluminum handle • Price includes spring retainer & regulator (TP97) • Precision machined hardened and ground valve • “Sure Grip” powder coated finish • Teasing trigger • Precision machined and hardened cylinder for long life • Made in the U.S.A.

2X Rivet Gun (1/8” Capacity) .....P/N 12-02004 ..... ---

3X RIVET GUN KIT

Virtually all the tools you need for riveting in kit form. Intended for professional sheet metal mechanics, serious home builder/students. Packed in a sturdy molded plastic case. #1 selling kit. Visit www.aircraftspruce.com for a complete list of kit contents. P/N 12-00240 ..... ---

ATS ECONOMY RIVETING KIT (3X)

This cost-saving riveting kit features ATS’s popular 2602A Rivet Gun , a selection of 4 Bucking Bars (141, 142, 148, and 149), plus a complete assortment of Rivet Sets to install Universal Head (AN470) or Flush (AN426) rivets in sizes 3/32” to 3/16”. Comes to you in a stylish molded case to keep things neatly organized. This is the prefect “field” kit to take with you anywhere -- it has the riveting tools you need conveniently laid out in one handy ready-to-go package .....P/N 12-03195 ..... ---

SPECIAL DIMPLING & RIVET SET

FOR RV4, RV6, RV8 AIRCRAFT

This 21-piece dimpling and riveting set was designed especially for use in the construction of the Vans RV aircraft series, however is ideal for a variety of other aircraft as well. All the riveting sets and dimple dies are made from heat treated stainless steel. Dimpling & Riveting Kit Contents: Set holder block, Cup sets, Flat sets, and Spring back dimple dies. Dimple Dies 3/32”, 1/8” for rivets; 6-32, 8-32, 10-32 for screws. Cup Sets 3/32”, 1/8”, 5/32”. Flat Sets 1/16”, 1/8”, 3/16”, 1/4”, 5/16”, 3/8”, 1/2”. Polyethylene 4” X 4” storage block.

21-piece kit .....P/N 12-00450 ..... ---

7-PC RIVET SET

Holder includes 3/32”, 1/8”, 5/32 and 3/16 cups for AN470 rivets, plus 3 flat sets for AN426 rivets. To be used with pneumatic or hand rivet squeezer .....P/N 12-00555 ..... ---

6-PC DIMPLE DIE SET

RIVET SIZE

Holder includes springback dimple dies for 3/32”, 1/8” and 5/32” rivets. To be used with pneumatic or hand rivet squeezer.

P/N 12-00560 ..... ---

6-PC DIMPLE DIE SET

SCREW SIZE

Holder includes springback dimple dies for 6-32, 8-32 and 10-32 screw sizes. To be used with pneumatic or hand rivet squeezer.

P/N 12-00565 ..... ---

SAFETY CABLE KIT

Safety Cable is a system used to secure hardware. Unlike traditional lock wire, Safety Cable is a much cleaner and faster way to secure hardware in critical areas of an aircraft. The system consists of a crimping tool and cables. **Specifications**: • .032” Diam. x 18” Cable Length • Type 321 CRES • Includes 50 cables with a magazine with 50 ferrules .....P/N 12-04569 ..... ---

TO

RIVET SETS FOR RIVETING HAMMERS

RIVET SETS STRAIGHT .401 SHANK (AN470)

Length "L"	Part Numbers					Price
	Rivet Size 3/32"	Rivet Size 1/8"	Rivet Size 5/32"	Rivet Size 3/16"	Rivet Size 1/4"	
3-1/2"	SM10-4703	SM10-4704	SM10-4705	SM10-4706	SM10-4708	---
5-1/2"	SM11-4703	SM11-4704	SM11-4705	SM11-4706	SM11-4708	---
7-1/2"	SM12-4703	SM12-4704	SM12-4705	SM12-4706	SM12-4708	---
10-1/2"	SM13-4703	SM13-4704	SM13-4705	SM13-4706	SM13-4708	---

RIVET SETS STRAIGHT .498 SHANK (AN470)

Length "L"	Part Numbers					Price
	Rivet Size 3/32"	Rivet Size 1/8"	Rivet Size 5/32"	Rivet Size 3/16"	Rivet Size 1/4"	
3-1/2"	SM30-4703	SM30-4704	SM30-4705	SM30-4706	SM30-4708	---
5-1/2"	SM31-4703	SM31-4704	SM31-4705	SM31-4706	SM31-4708	---
7-1/2"	SM32-4703	SM32-4704	SM32-4705	SM32-4706	SM32-4708	---

FLUSH SETS STRAIGHT .401 SHANK (AN426)

Dia.	Length	P/N	Price	Dia.	Length	P/N	Price
1"	2-1/2"	SM90	---	1-1/4"	3"	SM94	---
1"	3"	SM91	---	1-1/2"	3-1/8"	SM96	---
1"	5-1/2"	SM92	---	1-3/4"	3-1/4"	SM97	---

NOTE: These flush sets are universal for any diameter rivet. Order by part number referencing the length and diameter of the flush set required.

FLUSH SETS STRAIGHT .498 SHANK (AN426)

Dia.	Length	Part No.	Price	Dia.	Length	Part No.	Price
1"	3"	SM101	---	1"	5-1/2"	SM102	---

NOTE: These flush sets are universal for any diameter rivet. Order by part number referencing the length and diameter of the flush set required.

SETS FOR HIGH SHEAR RIVETS .401 SHANK

Length on all is 3-1/2"

Rivet Size	Part No.	Price
5/32"	SMHS10-5	---
3/16"	SMHS10-6	---
1/4"	SMHS10-8	---

RIVET SETS OFFSET .401 SHANK (AN470)

Length "L"	Part Numbers					Price
	Rivet Size 3/32"	Rivet Size 1/8"	Rivet Size 5/32"	Rivet Size 3/16"	Rivet Size 1/4"	
3-1/2"	SM20-4703	SM20-4704	SM20-4705	SM20-4706	SM20-4708	---
5-1/2"	SM21-4703	SM21-4704	SM21-4705	SM21-4706	SM21-4708	---
7-1/2"	SM22-4703	SM22-4704	SM22-4705	SM22-4706	SM22-4708	---
10-1/2"	SM23-4703	SM23-4704	SM23-4705	SM23-4706	SM23-4708	---

FLUSH SETS OFFSET .401 SHANK (AN426)

Dia.	Length	Part No.	Price
1"	3-1/2"	SM140	---
1"	5-1/2"	SM141	---

NOTE: These flush sets are universal for any diameter rivet. Order by part number referencing the length and diameter of the flush set required.

OFFSET FLUSH MUSHROOM SETS

Model #	Length	Description	Part No.	Price
07-140	3 -1/2" (89 mm)	Offset Flush Set .401 Shank 1" Face	12-03738	---
07-141	5 -1/2" (140 mm)	Offset Flush Set .401 Shank 1" Face	12-03739	---
07-142	7 -1/2" (191 mm)	Offset Flush Set .401 Shank 1" Face	12-03741	---

OFFSET FLUSH SET

Excellent for limited access areas.
Specifications: • Shank: 0.401 • Surface Face: 1" x 1 1/2" .....P/N 12-02892 ..... **---**

"T" FLUSH SET

T Flush Set.
Specifications: • Surface: 1 1/2" x 1/2". Overall Length: 5 3/4". Weight: 0.50 lbs. Shank: 0.401
P/N 12-02894 ..... **---**

BUCKING BLOCKS

Designed to be used with a riveting gun or by striking with a hammer. For aid with dimpling and/or riveting applications. Acts as a holding fixture for .187 shank dimple dies or rivet sets. Weight: 4 lbs .....P/N 12-00805 ..... **---**

SWIVEL DIMPLING TOOL .401 SHANK

*Can be used with TP93 Bucking Block
***Example: To order L = 3-1/2 - 1/8" Rivet specify: SM10SP-4264

Model #	"L"	Type	Price
SM10SP***	3-1/2"	Punch	---

Cuppings	3/32	1/8	5/32	3/16
For 100° Rivets (AN426)	4263	4264	4265	4266

KNOCKOUT PUNCHES FOR HIGH SHEAR RIVETS

Knockout punches for high shear rivets .40 shank. Made in the U.S.A.

Description	Length	Rivet Size	Part No.	Price
SMHS401K-4	3-1/2"	1/8"	12-01116	---
SMHS401K-5	3-1/2"	5/32"	12-01117	---
SMHS401K-6	3-1/2"	3/16"	12-01118	---
SMHS401K-8	3-1/2"	1/4"	12-01119	---

.401 SHANK RIVETING HAMMER ACCESSORIES

Description	Part No.	Price	Description	Part No.	Price
Moil Point	12-05096	---	Spotweld Breaker	12-05102	---
Panel Cutter	1957	---	Scraper	12-05103	---
Chisel	12-05099	---	Flush Set	12-01270	---
Rivet Buster	12-05101	---			

RETAINER SPRINGS

Retainer springs comes in two styles: Quick Change Type: Designed to make possible speedy changing of rivet set in rivet gun. Beehive Type: Desgined as a fixed type to securely hold rivet set in rivet gun.

Type	Rivet Hammer	ID	OD	Part No.	Price
Beehive	1X-2X-3X-4X; E3-E5; 3R-5R	1.09"	1.06"	12-01077	---
Beehive	5X-7X-9X	1.5"	1.2"	12-01078	---
Quick Change	AVC 10,11,12,13	1.40"	1.14"	12-01073	---
Quick Change	100B-200B,E3,E5	1.09"	1.06"	12-01079	---

STUBBY MICROSTOP

Stubby Microstop 1/4"-28 Threaded Shank for use in angle motors. Adjustable in 0.001" increments. 1/4"-28 female threads. 1/2" cutter capacity. Rated for 3,000 RPM use.
P/N 12-02893 ..... **---**

BACK RIVETING RIVET SET

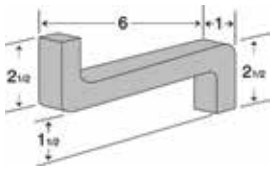
For back riveting flush rivets on RV control surfaces and other homebuilts. Has a plastic Delrin sleeve with spring to hold multiple sheets of aluminum together while riveting. 0.401 shank x 4-1/8 inches long.
Back Rivet Set 3-1/2" long
P/N 12-07100-3 ..... **--- ea.**

TO

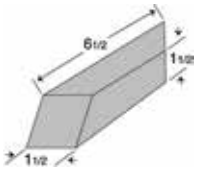
Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BUCKING BARS

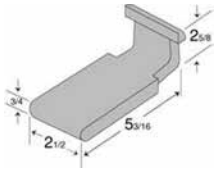
Our bucking bars are cast with ductile iron to insure non-porous finish which is very important in order to have a highly polished finished surface. They are heat treated to 38-42 RC and therefore can be repolished many times without changing hardness. This wide selection of sizes, shapes, and weights enables the aircraft builder to pick the proper bar for his job. Made in the U.S.A.



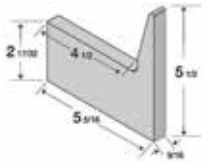
12-01302 2-3/4 Lbs.



12-01303 3 Lbs.

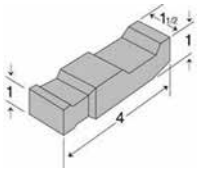


12-03768 3 Lbs.

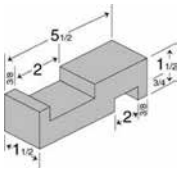


12-01306 2 Lbs.

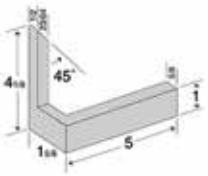
12-01307 1-3/4 Lbs.



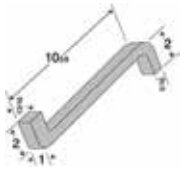
12-01309 1-1/4 Lbs.



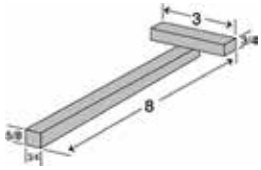
12-01310 2-3/8 Lbs.



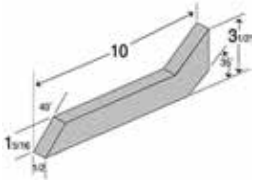
12-01311 1-1/4 Lbs.



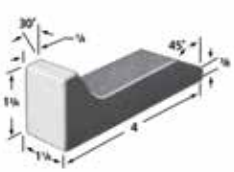
12-01312 3-5/16 Lbs.



12-01315 1-1/2 Lbs.

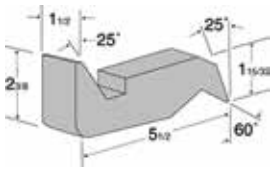


12-01319 1-3/4 Lbs.

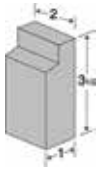


12-03736 1-1/4 Lbs.

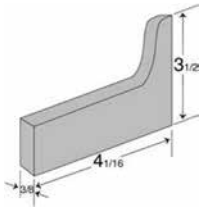
12-01280 1-3/8 Lbs.



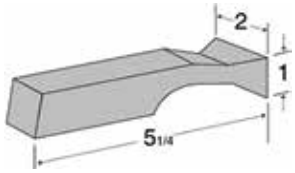
12-01281 3 Lbs.



12-01285 1-1/2 Lbs.

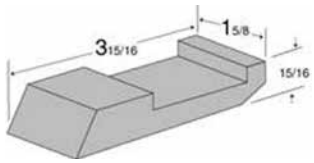


12-01286 3/4 Lb.

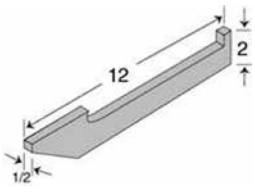


12-01282 1-3/8 Lbs.

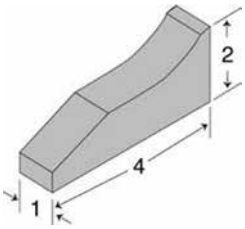
12-01290 1 Lb.



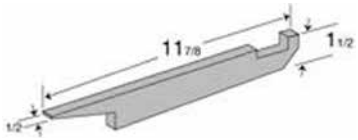
12-01291 1-1/4 Lbs.



12-00828 2-1/4 Lbs.

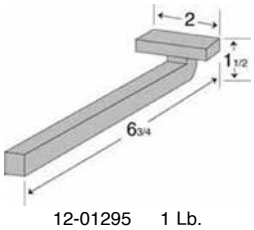


12-00841 1-1/2 Lbs.

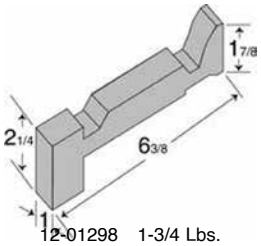


12-01294 2 Lbs.

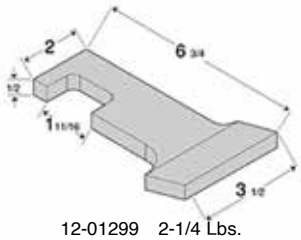
AT-618 2-1/4 Lbs.



12-01295 1 Lb.



12-01298 1-3/4 Lbs.



12-01299 2-1/4 Lbs.

TO

BUCKING BARS – V-DRILL – V-TAP GUIDES

BUCKING BAR 601

5.25 lbs. .....P/N 12-02907 ..... ---

BUCKING BAR 638

1.25 lbs. Style B .....P/N 12-02899 ..... ---

BUCKING BAR 670

2 lbs. Style A.....P/N 12-02898 ..... ---

BUCKING BAR 692

2.9 lbs. .....P/N 12-02909 ..... ---

BUCKING BAR 736

2.11 lbs. .....P/N 12-02908 ..... ---

BUCKING BAR 750U-1

1.65 lbs .....P/N 12-02906 ..... ---

BUCKING BAR KIT

This starter kit contains the most commonly used bucking bars. Multi-finished surfaces for numerous applications. Heat treated for durability.
• 1 AT638 Bucking Bar • 1 AT681 Bucking Bar • 1 AT647 Bucking Bar • 1 AT670 Bucking Bar
.....P/N 12-00840 ..... ---

ATS TUNGSTEN BUCKING BAR KIT - 4 PIECES

Tungsten bucking bar kit containing our most popular bucking bars. ATS6005, ATS6006, ATS6007, ATS6008, and comes in custom line foam case. .....P/N 12-05453 ..... ---

ATS TUNGSTEN BUCKING BAR SET - 7 PIECES

7 Piece Tungsten bucking bar kit containing the complete set of tungsten bucking bars. The bars come in a custom foam lined case.
P/N 12-05452 ..... ---

BUCKING BAR KEEPER

Protect Your Workpiece: The Bucking Bar Keeper is specifically designed to fit seamlessly onto a standard ATS 6007 Tungsten Bucking Bar. It acts as a reliable shield, preventing your bar from accidentally dropping onto your precious workpiece. Eliminate Riveting Woes: If you've ever riveted wing skins, you know the agony of mistakenly dropping your bar into critical areas like the leading edge or, worse, onto the spar. With the Bucking Bar Keeper, those worries are a thing of the past. .....P/N 12-06310 ..... ---

BUCKING BAR BUMPER ST

Say Goodbye to Taping: With our Bucking Bar Bumper, you can bid farewell to the time-consuming practice of taping your bucking bar. Achieve professional-grade rivets without the hassle.
Perfect Rivets Every Time: Precision is paramount in riveting, and our guide is designed to help you set the perfect rivet every single time. No more rework or subpar results.
Compatible with Standard Tungsten Bucking Bars: The Bucking Bar Bumper is tailor-made to fit standard 1x4x5/8 tungsten bucking bars, specifically model ATS 6007. It's the perfect companion for your trusted tool.....P/N 12-06305 ..... ---

V-DRILL PORTABLE GUIDES

The V-Drill Guide is like a portable drill press for precision alignment. V-groove along the bottom of the guide allows for perpendicular alignment with all drill sizes on round parts and corners. Bottom surface is precision ground to assure stability and accurate perpendicular alignment on flat surfaces. Drill guide is sized for drill bit sizes: 1/8" to 3/8", and made for 17 standard drill sizes (1/8 to 3/8 in 1/64 increments). Guides are made from special nickel alloyed steel that is heat treated for durability. Drill Straight - Every Time! Drill Guide comes with a handy plastic storage case and is 100% American Made Quality. **Features**: • Accurate - 90 degree V-groove along the bottom - automatically squares up the drill with the surface • Portable - Pocket size - Reusable plastic storage tube • Built to Last - Special nickel alloyed steel • High Quality - Natural steel finish - non-plated - Heat-treated for durability.
1/8" to 3/8" .....P/N 12-02937 ..... ---
3/8" to 1/2" .....P/N 12-03455 ..... ---

V-TAP GUIDES

The V-Tap Guides are for regular ground taps for hand tapping threads into pre-drilled holes. Works great on flat surfaces, round parts, and angled edges. Tap Straight - Every Time!
Standard: Guide holes are sized for ANSI Standard Ground Taps (0-80, 1-64, 1-72, 2-56, 2-64, 3-48, 3-56, 4-36, 4-40, 4-48, 5-40, 5-44, 6-32, 6-36, 6-40, 8-32, 8-36, 8-40, 10-24, 10-32, ¼-20, ¼-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, ½-13, ½-20, 5/8-11, 5/8-18). A protective plastic storage tube is included .....P/N 12-02938 ..... ---
Metric: Guide holes are sized for ANSI Standard Ground Thread Metric Taps (1.6mm, 2mm, 2.5mm, 3mm, 3.5mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm, 14mm, 16mm). A protective plastic storage case is included .....P/N 12-02939 ..... ---

STI V-TAP GUIDES (SCREW THREAD INSERTS)

The STI (Screw Thread Insert) V-Tap Guides are for Helicoil type taps to repair striped out threads.
STI V-TAP Guide (Unified Course Threads): Can handle standard ground STI hand tap sizes: 9/16-12, 1/2-13, 7/16-14, 3/8-16, 5/16-18, 1/4-20, 12-24, 10-24, 8-32, 6-32
P/N 12-02940 ..... ---
STI V-TAP Guide (Unified Fine Threads): Can handle standard ground STI hand tap sizes: 5/8-18, 9/16-18, 1/2-20, 7/16-20, 3/8-24, 5/16-24, 1/4-28, 10-32, 8-36.....P/N 12-02941 ..... ---

TUNGSTEN BUCKING BARS

Dims: 4" long, 1" wide, 5/8" high
Weight: 1.6 lbs .....P/N 12-04861 ..... ---

Dims: 5/8" long, 1.5" wide, 2" high
Weight: 1.2lbs .....P/N 12-04862 ..... ---

Dims: 3/4" long, 1.5" wide, 2.5" high
Weight: 1.6 lbs .....P/N 12-04863 ..... ---

Dims: 2" x 1-1/2" x 5/8"
Weight: 1.33 lbs .....P/N 12-04864 ..... ---

Dims: 5/8" long, 1" wide, 1/4" high
Weight: 1.3 lbs .....P/N 12-04865 ..... ---

Dims: 1" long, 1" wide, 2.25" high
Weight: 1.4 lbs high .....P/N 12-04866 ..... ---

BUCKING BAR BUMPER CLEVELAND

Say Goodbye to Taping: With our Bucking Bar Bumper, you can bid farewell to the time-consuming practice of taping your bucking bar. Achieve professional-grade rivets without the hassle.
Perfect Rivets Every Time: Precision is paramount in riveting, and our guide is designed to help you set the perfect rivet every single time. No more rework or subpar results.
Compatible with Standard Tungsten Bucking Bars: The Bucking Bar Bumper is tailor-made to fit standard 1x4x5/8 tungsten bucking bars, specifically model ATS 6007. It's the perfect companion for your trusted tool.....P/N 12-06306 ..... ---

TO

RIVET REMOVAL TOOL

This quality tool enables the user to quickly and accurately remove rivets and blind fasteners. The tool comes complete with drill bits and guides, #40, #30, #21, and #10. Made in U.S.A.

P/N 12-00817 ..... ---

REPLACEMENT BITS

P/N 12-01128 - #10 ..... --- P/N 12-01130 - #30 ..... ---
P/N 12-01129 - #21 ..... --- P/N 12-01131 - #40 ..... ---

HAND RIVETING & DIMPLING TOOL

Used for hand dimpling of skins and small parts and for hand riveting of parts, assemblies, and spars. This tool maintains alignment of the dies to each other, and insures proper alignment to the work surface for superior dimpling results over either rivet gun or free-hand dimpling methods. **Features include:** • 22" deep x 4" tall throat • Heavy wall 1" x 2" steel tube arm • Heavy wall aluminum channel base • Bronze 1/2" I.D. guide bushings for shafts • Heat treated and centerless ground stainless steel driver shaft (2)– one shaft has flat end for riveting with rivet gun & one shaft accepts 0.187" shanks for dimple dies & sets. •1.5" extension shaft for dies • Adjustable die holder block. Rivet Tool Return Spring Kit now included (Spring, collar and wrench). Great for one handed dimpling of skins and parts. Uses rivet, dimple and die sets with .187" shank. (Dies and sets sold separately)

P/N 12-00177 ..... ---

DRDT-2 RIVET DIMPLER

DRDT-2 (AKA Dash 2) is a welded steel c-frame rivet dimpler. Replaces the common impact c-frame rivet dimplers of the past. With its ample mechanical advantage, dimpling is fast, easy, less fatiguing and safe on the skins. With a fully adjustable set holder you can achieve consistent and accurate dimples. The DRDT-2 incorporates a new low force spring return system that prevents skin damage from the accidental release of the handle without increasing the force required to dimple. 22" throat depth allows dimpling of up to 44" wide sheets. The relief under the lower frame member provides dimpling access to spars, ribs, leading edge skins. Designed and analyzed using state of the art engineering tools the DRDT-2 can handle all your dimpling needs on your project. The DRDT-2 is painted with an industrial powder coat giving one of the toughest finishes available.

Features: • Weight: 60 lbs • Size: 28"X16"X3" • Capacity: Up to 22" depth • Gap: 4" • Skin thickness: Up to 0.040" Aluminum. Dimple Dies: 3/16" shank Diameter.

Rivet Dimpler ..... P/N 12-00907 ..... ---
Dimple Die Rivet Set ..... P/N 12-00560 ..... ---
Dimple Die Screw Set ..... P/N 12-00565 ..... ---

ATS POP DIMPLE DIES

This product is a clever way to set dimple in sheet metal using a pop riveter. Just place both halves on the sheet metal insert in your riveter and squeeze to form a perfect dimple.

3/32" ..... P/N 12-00169 ..... ---
1/8" ..... P/N 12-01179 ..... ---

DRILL STOPS

Lock on drill with set screw. Regulate hole depth, cushion the breakthrough. Eliminate surface marks & reduce drill breakage.

#40 Drill ..... P/N 12-08800 ..... ---
#30 Drill ..... P/N 12-08900 ..... ---
#28 Drill ..... P/N 12-09000 ..... ---
#21 Drill ..... P/N 12-09100 ..... ---
#20 Drill ..... P/N 12-09200 ..... ---
#12 Drill ..... P/N 12-09300 ..... ---
#10 Drill ..... P/N 12-09400 ..... ---
1/4" Drill ..... P/N 12-09500 ..... ---

SQUEEZER TIP

Precision at Its Finest: Our Squeezer Tips are designed to fit seamlessly onto a 1/2" OR 3/8' diameter flush dies. They excel at compressing sheet metal before rivet setting, ensuring unrivaled precision in your work.

Better Than Old Tubing Trick: While the tubing trick has been a go-to method, our Squeezer Tips take it up a notch. You can now achieve superior tolerances on every rivet, making your riveting projects top-notch and hassle-free.

Centered Shop Head: One added benefit of using our Squeezer Tips is that they effortlessly position the shop head in the center of the flush die. No more accidental "slopers" – just perfect rivets every time.

P/N 12-06307 ..... ---

OOPS HOLE SAVER RIVET KIT

"OOPS" Hole saver rivet kit. NAS 1097 rivets are 100º flush rivets with a smaller head. The 1/8" 1097 rivet head is the same size diameter as the normal 3/32" 426 Flush rivet. Easy fix on mistakes made on 3/32" flush rivets. The 3/32" NAS 1097 rivets are great for installing nutplates- you can deburr hole (instead of countersinking) and the reduced head on the NAS 1097 will fit. 3 sizes of 3/32": NAS1097AD-3-3, NAS1097AD-3-3.5, NAS1097AD-3-4 3 sizes of 1/8":, NAS1097AD-4-3.5, NAS1097AD-4.4, NAS1097AD-4.5 And also includes: Plastic divided storage box.

P/N 12-03781 ..... ---

ROUTER

This air-powered router is very light weight and features a straight handle and rear exhaust. Base is 1-1/2" and router guide is included. RPM: 20,000. Router shank: 1/4". Length: 6". Wt.: 1-1/2.12 Lbs. Made in U.S.A.

P/N 12-01321 ..... ---

ANGLE DRILL

Affordable Close-Quarter drilling tools with Steel alloy cylinder & rotor for long tool life. Also precision machined for smooth & quiet operation. Milled motor housing - rear exhaust. **Specifications**: • 90° Angle - 1/4" Capacity, 1/4"-28 Thread - 0.3 hp (0.22 kW) • 3200 RPM • 90PSI (MAX) • Overall Length 8-1/4" (210 mm) • Weight 1.25 lbs. Made in USA ..... P/N 12-00241 ..... ---

SMALL BODY RIGHT ANGLE DRILL

The ACAT 90 Degree Right Angle Drill is a high-precision, powerful, durable drill. 3200 RPM. Weight: 1.8 lbs. Length: 10 1/4". Accepts industry standard 1/4"- 28 threaded bits.

P/N 12-02859 ..... ---

AIR DRILL PISTOL - TYPE 4500 RPM

Ergonomically designed, compact, quiet, and powerful are just a few of the benefits available with this air drill. The short body length is ideal for working in tight areas while the light weight and perfect balance makes it the mechanics favorite drill.

• Includes chuck guard • 75 HP motor - High Torque Motor • Variable speed teasing trigger standard - adjustable trigger optional • Made in the USA • Capacity: 1/4" • Length: 6" • Weight: 2 lbs

P/N 12-00816 ..... ---

RIVET BUSTER

Rivet Buster for shearing all types of rivets. Shank: 0.401. Size includes 5/8"..P/N 12-03779 ..... ---

HOLE DUPLICATORS
(BUSHING TYPE)

Provide an accurate means of drilling duplicate matching holes in over-lapping sheets. Hole to be duplicated is drilled though bushing when pilot is in place. ....--- **ea**

Part No.	Pilot & Drill Size	Part No.	Pilot & Drill Size
AT532-61 #40	(.098")	AT532-63 #21	(.159")
AT532-62 #30	(.129")	AT532-65 #10	(.194")

MIN MAX PERFECT RIVET GAUGE SET

Experience a new era of accuracy in rivet measurement with the Min Max Perfect Rivet Gauge. This state-of-the-art tool is a significant upgrade from the standard rivet gauges that have dominated the industry for decades. By leveraging advanced 3D printing technology, we've crafted a gauge that not only matches but surpasses the expectations of professionals in metalworking, aviation, and beyond. Comes in a multicolored pair for AN3 and AN4 Rivets .....P/N 12-06311 ..... ---

RIVET SET BUMPER

Remove smiles from your build while ensuring you are lined up correctly. This will auto align a 1/8 inch 470-4 rivet head and protect the skin and rivet head from forming smiles. This will give you the show quality plane you are after.

Comes in a set of 10 .....P/N 12-06308 ..... ---

TO

SHEET METAL TOOLS

MARVEL AIR TOOL OIL

MARVEL brand oil - - especially engineered for care of piston-type and rotary air tools. Prevents rust formation while providing lubrication for longer tool life and smoother operation. Keeps your air tools in top shape. A "must" for all air tools.
4 oz. bottle with spout. .....P/N 12-00872 ..... ---

MICRO-STOP COUNTERSINK CAGES & NYLON FOOT PIECE

2 Models available-one with NEEDLE bearing and one with BRONZE bushings. .001" increment depth adjustment. Positive adjustment lock. 1/4" dia. shank. 9/32" shaft travel. 9/16" cutter capacity. For 1/4-28 threaded cutters. Comes with "NO-MAR" foot piece. Rated at 3,000 RPM. Made in USA.
With Bronze Bushings P/N 12-01412 ..... ---
With Needle Bearings P/N 12-00940 ..... ---

SQUEEZER SET MIX

6 piece set of the most commonly used squeezer sets shown above: 3/32" & 1/8" cup sets; 1/8" modified cup set; 1/8" & 1/4" flush sets; & 1/16" by 3/8" dia. flush set; plus #4510 organizer block.
..... P/N 12-00882

90° ANGLE DRILL KIT

This angle drill kit includes a drill attachment with quality ball bearing construction for long life. Kit includes 12 threaded drills in assorted sizes and lengths, a mini 3-jaw chuck with 1/16" to 1/4" diameter capacity, and a molded storage case. Made in the U.S.A.

Drill Sizes:

1 ea.	#2140	#40 stubby	1 ea.	#2130	#30 stubby
2 ea.	#3140	#40 short	2 ea.	#3130	#30 short
1 ea.	#3127	#27 short	1 ea.	#3121	#21 short
1 ea.	#3112	#12 short	1 ea.	#3114	#1/4" short
1 ea.	#4140	#40 long	1 ea.	#4130	#30 long

1 ea. #20379 Mini 3-jaw chuck
P/N 12-00883 ..... ---

STOP COUNTERSINK CUTTERS - 100°

• Made in the U.S.A. • High Speed Steel • 1/4" -28 Threaded Shanks • 100° 3-Flute Precision Ground • For Use in Micro-Stop Countersink Units • 8 Sizes Available

Pilot Size	Decimal Equiv.	Body Dia.	Part No.	Price
#40 (3/32" rivet)	.0980"	3/8"	12-00879	---
#40 (3/32" rivet)	.0980"	1/2"	12-00942	---
#30 (1/8" rivet)	.1285"	3/8"	12-00880	---
#30 (1/8" rivet)	.1285"	1/2"	12-03331	---
#27 (#6 screw)	.1440"	1/2"	12-00943	---
#20 (#8 screw)	.1610"	1/2"	12-00881	---
#12 (#10 screw)	.1890"	1/2"	12-00944	---
5/32" (5/32" rivet)	.1560"	1/2"	12-00945	---
3/16" (3/16" rivet)	.1875"	1/2"	12-00946	---
1/4" (1/4" rivet)	.2500"	1/2"	12-00947	---

ECONOMY COUNTERSINK CUTTERS 100°

Economy High Speed Steel 3/8" and 1/2" dia in 8 different sizes • High Speed Steel • 1/4" -28 Threaded Shanks • 100° 3-Flute Precision Ground • For Use in Micro-Stop Countersink Units • 8 Sizes Available

Size	Decimal Equiv.	Body Dia.	Part No.	Price
#40 (3/32" rivet)	.0980"	3/8"	12-03249	---
#40 (3/32" rivet)	.0980"	1/2"	12-03250	---
#30 (1/8" rivet)	.1285"	3/8"	12-03251	---
#30 (1/8" rivet)	.1285"	1/2"	12-03252	---
#27 (#6 screw)	.14440"	3/8"	12-03253	---
#20 (#8 screw)	.1610"	3/8"	12-03255	---
#12 (#10 screw)	.1890"	3/8"	12-03257	---
5/32" (5/32" rivet)	.1560"	3/8"	12-03259	---
3/16" (3/16" rivet)	.1875"	3/8"	12-03261	---

360° SWIVEL HAND POP RIVET TOOL

Stanley brand professional hand pop rivet tool. Unique head design swivels 360° for riveting in any position, at any angle. Extended nose for hard to reach places. Built in handle latch. Die-Cast aluminum & hardened steel construction. Molded grips. Includes (4) interchangeable steel nose-pieces for: 3/32", 1/8", 5/32", & 3/16"
P/N 12-00889 ..... ---

DELUXE SPRING BACK TYPE DIMPLE DIE KIT WITH BLOCK

This deluxe spring back type dimple die kit has all the most commonly used dimple dies in one package. This kit includes:

1- 3/32 Dimple Die Set
1- 1/8 Dimple Die Set
1- #6 Screw Dimple Die Set
1- #4520 Organizer Block for Dies
1- #14870 Female Die / 3/8" Dia.
1- #14871 1/8" Female Die / 3/8" Dia.
1- #8 Screw Dimple Die Set

P/N 12-00868 ..... ---

DOUBLE OFFSET RIVET SET

Double offset rivet set for universal AN470 rivets, 5-1/2" long sets. Used for hard to reach rivets in corners. High alloy steel and heat treated. Shanks are precision ground. Cuppings are polished.
3/32" Double Offset Rivet Set .....P/N 12-00936 ..... ---
1/8" Dbl. Offset Rivet Set .....P/N 12-00873 ..... ---
5/32" Double Offset Rivet Set .....P/N 12-00937 ..... ---
3/16" Double Offset Rivet Set .....P/N 12-00938 ..... ---
4-PC Double Offset Rivet Set .....P/N 12-00939 ..... ---

AVERY CUTTING & POLISHING WHEEL KIT

Cutting polishing wheels are a uniform blend of minerals and resins molded into wheel form with rugged, dense construction that provides aggressive polishing and blending action without removing excess base materials. These wheels generate uniform finishes and can remove minor surface imperfections. Use these wheels with a die grinder for deburring holes and edges. Small wheels are more versatile than large (6") wheels. Can be used on handheld parts or parts in the jig. These wheels are the same density, grade, and mineral type as the 7A MED 6" wheel.
Kit Contents: (1) #936 Mandrel + (2) 1" x 1" x 3/16" Wheels (1) #932 Mandrel + (2) 2" x 3/4" x 1/4" Wheels .....P/N 12-00876 ..... ---
1" x 1" x 3/116" Hole Wheel .....P/N 12-01997 ..... ---
Mandrel for 3700 .....P/N 12-01996 ..... ---
Mandrel for 3719 .....P/N 12-01998 ..... ---

3M™ SCOTCH-BRITE™ DEBURRING WHEEL

Two Styles Available: Cut & Polish/Unitized Wheel-7A Medium grade (harder) Use to radius and deburr edges of aluminum parts. These wheels give a uniform brushed satin finish to parts and deburr quicker and easier than hand finishing. These wheels are discs of Scotch-Brite web compressed and bonded to form a rugged, dense wheel. Wheel size: 6" dia. x 1" wide x 1/2" thru hole. .....P/N 12-00875 ..... ---

Light Deburring Wheel-7S Fine Grade (Softer)
Light deburring 7S Fin 6 x 1 x 1. This wheel has a 1" thru hole. To fit 1/2" order P/N 12-01585. .....P/N 12-00948 ..... ---
3M Flange Adapter 45035 1" to 1/2" .....P/N 12-01585 ..... ---
3M Flange Adapter 45034 1" to 5/8" .....P/N 12-05134 ..... ---

DRIVE PIN PUNCHES

Drive Pin Punch 1/16" .....P/N 12-00949 ..... ---
Drive Pin Punch 3/32" .....P/N 12-00870 ..... ---
Drive Pin Punch 1/8" .....P/N 12-00871 ..... ---

4-PIECE DRILL STOP SET

Use when drilling in sheet metal to help eliminate drill breakage & surface marks. Safely keeps drill from going too far through the work. Drill stops have a coiled spring to cushion the drill breakthrough & prevents the drill chuck from marring the work surface. Color coded for easy identification.
P/N 12-00867 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

POLYETHYLENE DIMPLING MALLET

This custom made UHMW polyethylene plastic mallet is great for dimpling skins. Blows are more solid and much quieter than with steel hammers. Will outlast wood mallets. Hammer head measures 2.5" round x 4" long with 12" handle.
Wt: 16 oz ..... P/N 12-00605 ..... ---

PLASTIC FORMING MALLET

This custom made UHMW polyethylene plastic forming mallet is great for metal forming. Smooth radiused surfaces will not marr surface. Long life, split resistant. Mallet head measures 2.5" round X 5" long w/ 11" handle; Wt: 14 oz. Great combo to the shot bag.
P/N 12-00607 ..... ---

METAL FORMING SHOT BAG

For those builders that want to try their hand at metal forming this leather shot bag is a must have item. Leather shot bag made from 3/4 oz. top grain cowhide. The bag is double stitched and fills through a 1" opening sealed with Velcro. The bag is 12" round and 1-1/2" thick. Use lead shot #8 - #7.5; or sand - mortar quality type (shot can be purchased at local sporting goods or gun stores).
P/N 12-00606 ..... ---

HAND SEAMER/3.5" JAW

Has VISE GRIP locking feature to aid clamping & holding work. Use for straightening and bending rib and bulkhead flanges. Made with 7" vise grip plier. Jaws are made from 3/16" X 1" X 3-1/2" stainless steel with machined radius. TIG welded & polished.
P/N 12-00608 ..... ---

FLUTING PLIER

Make narrow & precise flutes for straightening ribs and bulkheads easier & better than pliers with molded jaws. Made with 7" VISE GRIP pliers. Pins are 3/16" dia. stainless steel. TIG welded & polished.....P/N 12-00609 ..... ---

VISE GRIP DIMPLERS

Made for dimpling in restricted and hard to reach places where regular dimple dies won't fit. Made with 7" VISE GRIP plier. Machined tool steel dimple dies are T.I.G. welded to the VISE GRIP jaws then polished. 2 sizes available (3/32" and 1/8").
3/32" .....P/N 12-00611 ..... ---
1/8" .....P/N 12-00612 ..... ---

LEVER SNIPS

Offset cutting tool, leaves 2 clean, finished edges. 8.5" length, .75 lb. Model TP134 - (Left hand snip, cuts left & straight)
P/N 12-00367 .....---

TEMPIL MARKERS

Marks easily on metal, ceramic, glass, plastic, wood and paper. Markings are fast drying, permanent, weatherproof. Won't rub off, run, fade, chip, peel or blister. The surface can be wet, dry, rough, smooth or oily. Efficient on any horizontal, vertical or inclined surface. Long-lasting 6" ball point tube with non-clogging paint.
Black .....P/N 12-11901 ..... ---

3 INCH CUT OFF WHEELS

3" x .03" x 1/4" Cut-Off Wheels by Black Hawk Abrasives are thin but strong die grinder cutting discs built for fast slicing even on hard materials. Also, sometimes called whiz wheels, these 3-inch cutting wheels are made with reinforced fiberglass mesh and a heat-treated aluminum oxide grain bonding matrix for additional safety, lateral stability, and increased longevity. These cutoff discs have a 3-inch diameter making them perfect for cutting in hard to reach places. Additionally, the .03 inch thickness (1/32 inch thickness) allows for rapid cuts with minimal workpiece material loss. The Black Hawk 3-inch metal cut-off wheel can be used on stainless steel or steel and is ideal for applications such as flash removal, cutting pipes, cutting rods or removing gates to name a few.
3 x 1/32 x 1/4 Inches .....P/N 09-05685 ..... ---
3 x 1/16 x 3/8 Inches .....P/N 09-01523 ..... ---
3 x 1/32 x 3/8 Inches.....P/N 09-01521 ..... ---

ADJUSTABLE SET HOLDER FOR PNEUMATIC SQUEEZERS

New improved design. Heat treated 4130 steel investment casting with rolled threads. This special set holder is made to replace the rigid (2-9/16") set holder standard to most CP214 style pneumatic squeezers. This adjustable set holder will eliminate the need to shim the dies and sets with shim washers. Adjustments are faster & easier.....P/N 12-00615 ..... ---

Note: Only for yokes with 1" thick base or less. Will not work in

POP GRIP DIMPLERS AN-426 RIVETS

For dimpling in hard to reach places. Works with any hand pop rivet tool. Can be used over & over. Works for both 100 & 120 pop rivets. Extra nails included (Uses standard hardware store nails). 2 sizes available.
3/32".....P/N 12-00613 ..... ---
1/8".....P/N 12-00614 ..... ---

Note: The pop rivet dimplers show above are made with 100° angles, same as regular dimple dies. They will work with either solid flush rivets (AN-426 – 100°) or with pull type rivets such as a AVEX rivets (120°), etc. The dimple formed with these pop rivet dies will not be as 'sharp' as dimples formed with regular dimple dies. This is because you get more pressure with a squeezer or a hammer than with a pop rivet puller; however, the dimples formed with pop rivet dimplers are adequate for occasional use in tight or hard-to-use places.

FLUSH SWIVEL RIVET SET

U.S. MADE -- ATI Brand. New design flush rivet set with swivel action eliminates problem of rivet gun alignment with the work surface + rubber guard to reduce slippage while flush riveting. .401" shank X 1-1/4" dia. polished face. Built-in retaining spring.
P/N 12-00741 ..... ---

BACK RIVETING PLATE

Back riveting requires a hard flat surface to act as a bucking bar while you set the shop head of the rivet. Our plate is a perfect hard & flat surface for "Back Riveting". 3/8" thick X 4" wide X 15" long. Low carbon steel plate with flat ground surface. Weight 10 lbs. .....P/N 12-00618 ..... ---

HOLE FLANGING TOOL

For forming flanges around lightening holes. Made from 2024 aluminum and hard black anodized. Ball bearing style rollers. Comes with spare set of rollers.
P/N 12-00619 ..... ---

SPARE ROLLER-SET OF 2

Replacement rollers for our edge rolling & hole flanging tools (above).
P/N 12-00621 ..... ---

WISS COMPOUND ACTION SNIPS

12-01155

12-01190

12-01189

Famous for cutting ease, keeping their edge and making clean, sharp cuts. Hardened molybdenum steel blades, serrated jaws and vinyl comfort grips. Capacity 18 gauge (.049") steel. Length 9-3/4". Wt. 14 oz.
P/N 12-01155 - Cuts left, from tight curves to straight..... ---
P/N 12-01189 - Cuts right, from tight curves to straight..... ---
P/N 12-01190 - Cuts straight (or wide curves left or right in light stock).

IRWIN OFFSET SNIPS

Irwin offset snips handle virtually every cutting job in sheet metal - linoleum, carpet, tile and other materials. They are easier to use than conventional metal snips, and cut in 3 directions. Irwin snips feature forged steel blades, a unique curved handle for comfortable fit in the hand, and an exclusive pinch-point wire cutter. They cut in three directions—straight, sharp angles in one direction, and 5" diameter circles in the opposite direction. Irwin offset snips make difficult cuts easy - they can make tight circular cuts, cut easily through corrugated metal, and cut solid and stranded wire. Available in right or left cutting models.
IRWIN (Right Cutting).....P/N 12-00187 ..... ---
IRWIN (Left Cutting).....P/N 12-00186 ..... ---

TO

SHEET METAL TOOLS

SPEED DEBURRING & C'SINKING TOOL

Swivel action - makes deburr & c'sink holes fast & easy. Molded handle with 2" long plated steel "Dog-leg" shaft with 1/4"-28 threaded holder. Includes (1) 3/8" X 100° 3-flute burring cutter (part #1050) + 8" extension shaft for deburring the inside of flanges & other hard to reach holes.....P/N 12-00622 ..... ---

Handle and Extension Shaft sold separately

Swivel handle only.....P/N 12-00623 ..... ---

Extension Shaft only.....P/N 12-00624 ..... ---

E-Z BURR - HSS SERIES

E-Z Burr High Speed Steel (HSS) tools are the industry standard for quick, effective and consistent front and rear burr removal. No other HSS deburring tool is this durable. By designing the blade to operate independent from springs and plungers, E-Z Burr has created a deburring tool with a flexible blade and a solid shank for optimum performance for deburring metal or plastic components. In addition, the patented E-Z Burr HSS deburring tool allows you to change chamfer settings, from extreme low to extreme high, and cutting blades without removing it from the holder. Once the desired chamfer is set, it won't change, even from blade to blade. The result is less downtime, more production, and higher profits.

E-Z Burr Tool Specifications:

Series L1A and L1B tools have a working range of -0.0 + .006 inches and -.03 + .15mm.

Series L2A and L2B tools have a working range of -0.0 + .016 inches and -.10 + .40mm.

Series L3A and L3B tools have a working range of -0.004 + .015 inches and -.10 + .40mm.

Note: All tools (front and rear cutting blade with positive rake)

** METRIC SIZES NOT LISTED, MAY BE AVAILABLE UPON REQUEST AS SPECIAL ORDER ONLY - CALL FOR QUOTE ON SIZES NOT LISTED: 1-877-477-7823 **

Hole Dia.	Shank Dia.	Blade Series	Part No.	Price
3/32 in. / 2.38mm	.236 in. / 6.00mm	L1A	12-02949	---
1/8 in. / 3.17mm	.236 in. / 6.00mm	L1B	12-02951	---
5/32 in. / 3.96mm	.250 in. / 6.35mm	L2A	12-02952	---
3/16 in. / 4.76mm	.250 in. / 6.35mm	L2B	12-02953	---
1/4 in. / 6.35mm	.359 in. / 9.10mm	L3A	12-02955	---
2.50mm	6.00mm	L1A	12-02959	---
3.00mm	6.00mm	L1A	12-02960	---
4.00mm	6.00mm	L2A	12-02961	---

EZ-BURR RIVET HOLE BUNDLE

The Rivet Hole Deburring Tool bundle by E-Z Burr includes 5 high performance HSS deburring tools for front and rear cutting. Sizes: 1/8, 5/32, 3/16, 7/32, & 1/4.

P/N 12-02956 ..... ---

HSS THREE FLUTE BURRING CUTTER - 100°

US made. High speed steel, precision ground, three flute burring cutter. 3/8" diameter X 100° with 1/4-28 threaded shank. Same style as a countersink but without the pilot.

P/N 12-00625 ..... ---

SNAP RING PLIER KIT

Install or remove retaining rings of the Waldes Tru-Arc type with ease. Quality pliers made of heat-treated steel with vinyl covered handles. Kit includes two pair of pliers and two sets of four replacement tips to handle the most common sizes of both internal and external rings. Furnished in plastic box.....P/N 4440R..... ---

STRAP WRENCH

Heavy malleable iron body with latex-treated nylon webbing. For gripping and turning of round, hex or square parts without marring the surface.Indispensible tool for use in close quarters where ordinary pliers cannot be used. Tool is 11-1/2" long with 18" strap. Capacity 3". Wt. 1-1/2 lbs. .....P/N 3004 ..... ---

DOUBLE EDGE DEBURRING TOOL

Used to quickly deburr edges of sheets up to 1/8" thick. Save time and motion deburring edges of parts. Precision ground Carbide "V" shape blade with hex aluminum handle. Non-removable cutter style .....P/N 12-00629 ..... ---

EDGE MARKER BLOCK

This handy device holds a marking pen and has an adjustable stop for running along the edge of a part. The adjustable stop allows variable edge distance for rivet layout, etc. One thumbscrew holds the pen (pen sold separately) and the other thumbscrew holds the adjustable stop. Made from delrin (plastic) material. Comes ready to use with (1) Pilot marking pen.....P/N 12-00630 ..... ---

SHOP HEAD RIVET GAUGE SET

Set of four gauges for -3, -4, -5, & -6 rivets. Each gauge measures MINIMUM height and MINIMUM diameter of shop heads AFTER setting. Eliminates guessing if your rivets are properly set. Works for measuring both universal head and flush rivets. Precision machined to size from 2024 aluminum. Rivet size permanently stamped on each gauge. Color coded anodized finish. Instructions included.....P/N 12-00631 ..... ---

EDGE ROLLING TOOL

For pre-bending skin edges on lap joints and butt joints before riveting. "Edge rolling" will prevent skin edges from curling up during riveting. Machined round body made from 2024 aluminum. Hard black anodized finish for wear resistance. Ball bearing style nylon rollers (non marking); + spare set of rollers and instructions included.....P/N 12-00632 ..... ---

RIVET LENGTH GAUGE

One gauge measures -3, -4, -5, & -6 rivets. Used to check for proper length of rivets BEFORE setting. Eliminates measuring and guessing of rivet lengths. Works for both universal head and flush rivets. Precision machined to size from 2024 aluminum. Rivet sizes permanently stamped. Gold anodized finish. Instructions included.

P/N 12-00633 ..... ---

TEMPORARY ASSEMBLY PINS

Initial fitting of control surfaces require multiple installation and removals of the parts to fit, trim, and adjust everything. These temporary assembly pins make the task quicker and easier. Pins are 3/16" diameter with tapered points and angle bends for easy installation. The pins are threaded so the pin holder can be removed — this is necessary to prevent damage should you move the control surface too far during fitting. To remove pins just screw holder back on pin and remove pin. Packaged in sets: 6 pins / 2 holders.....P/N 12-00627 ..... ---

INSTRUMENT HOLE PUNCH ATS-123C

Reversible cutter for both 2-1/4" and 3-1/8" instrument panel holes. Easy to use even with instrument panel installed in aircraft. Allows for close work with other instruments already installed. 4 lbs (2Kg) shipping weight.

P/N 12-02743 ..... ---

BOLT GRIP

This new tool lightly grips the heads of bolts and screws for easier insertion into tight or blind spots. No more dropped or lost parts. Tool has one end for -3 (3/16") fasteners and one for -4 (1/4") fasteners. 12" overall length.

P/N 12-00628 ..... ---

CHUCKING REAMERS

We stock straight shank and straight flute Chucking Reamers in a wide range of sizes.

SEE WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE LISTING OF OUR CHUCKING REAMERS.

BRASS PLUMB BOB

Precision machined brass with clear lacquer finish and hardened replaceable tip. Top unscrews for centered string installation.

Model: 6C235 • **Size :** 8 oz, 4 7/8" L • **Finish:** Clear Lacquer • **Characteristics :** Replaceable Tip, Screw Top To Attach String (String Not Included) .....P/N 12-01711 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

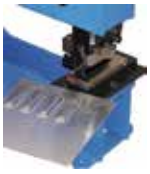
MITTLER BROTHERS SHEET METAL TOOLS

MANUAL BENCH PRESS

Economical & versatile. Bench press accepts tooling for punching round, square & oblong holes; punching louvers; creating radius corners; & shrinking or stretching metal. Punch/flare tooling & instrument hole punches. Easily mounted with included adapters. Can also Be used as arbor press.
Model 2200-M .....P/N 12-02770 ..... ---

LOUVER PUNCHES

LOUVER PUNCH START UP KITS WITH MOUNTING HARDWARE



Size	Part No.	Price
1”	12-02771	---
2”	12-02772	---
3”	12-02773	---
4”	12-02774	---
5”	12-02775	---
3” Dome	12-02776	---
4” Dome	12-02777	---

ULTIMATE BOX & PAN BRAKE

Features include wrenchless upper set back adjustments, 3-1/2” depth of box, 2” down leg, 1” front to rear adjustment and 1/4” reverse bend capabilities. A complete set of upper radius fingers. • Wrenchless upper set back adjustments • 3-1/2 inch depth of box • 2 inch down leg • 1 inch front to rear adjustment • 1/4 inch reverse bend capabilities. Along with the box and pan brake, you will receive a complete set of upper radius fingers (your choice), bed fingers, apron angle fingers, and counterweight(s). The total width of the upper radius finger kit will be 48”. You will receive the following fingers: qty 7 of 6” and one each of 3”, 2”, and 1” fingers totalling to 48”.
Model 2800-48-16 .....P/N 12-02799 ..... ---
Upper Radius Finger Kits (radius is measured inside of bend)

AIRCRAFT SCALE SET

• 15 x 15” Cast Aluminum Pads • 1500 Lbs Per Pad Capacity Lbs. or Kg • Reads to 1 Lb. / 1/10% Accurate • Displays All Information at Once • Zero All Pads at Once or Individually • 40 Hr. Battery Life (rechargeable) **Certification Available At Optional Cost.** Deluxe Aircraft Scales include custom length cables with Deluxe Stainless Steel connectors and software to calculate center of gravity height. 4500 lbs. Model 50297.....P/N 12-02816 ..... ---

WHEELING MACHINE (U-WELD MODEL)

This English Wheel U-Weld Kit supplies the components to make your own English wheel, minus the steel tubing. A detailed assembly booklet is provided and the complete kit includes all the key components of the turn-key MetalAce 44F English Wheel. Other kits on the market come with smaller 2” wide x 2 1/2” diameter anvil wheels, smaller diameter upper wheels, and require more assembly. The screwlift quick release cam unit is fully assembled. Components proudly made in the USA.
MA44F-KIT - Components and bill of materials to build a 44F English Wheel P/N 12-00570 ..... ---
MA44F - Fully assembled English Wheeling Machine
P/N 12-02294 ..... ---

BENCH TOP ENGLISH WHEEL

A Rugged, Robust Machine for the occasional metalworking project to the professional craftsmen. All wheels (anvil & top) are heat treated, hard turned & ground for accurate precision metal forming. • 26-1/2” Deep Throat • 2-1/2” OD - 2” Wide Anvils • 7” OD - 2” Wide Top Wheel • Cam Action Release on Top wheel For Easy Anvil Change • Adjustable Anvil Wheel Angle • 3” x 4” x 1/4” Tube Construction For Minimum Deflection • Kick Wheel Manual Pressure Adjustment • Anvil Wheels In Radius Of 2-3/8”,3-1/4”,5”, 8-1/2”,12” & Flat
Model 2900.....P/N 12-02812 ..... ---

24 INCH BOX & PAN BRAKE WITH RADIUS FINGERS

The ULTIMATE Box & Pan Brake has a unique “3 Finger” design. This design incorporates moveable fingers on the bed and apron as well as the usual upper fingers. This design allows the operator to make bend combinations that were extremely difficult if not impossible before. The ULTIMATE Box & Pan Brake has wrenchless upper set back adjustments and is designed to bend 16 gauge mild steel the full width with the included apron angle fingers. A complete set of upper fingers, bed fingers, apron angle fingers, and counterweight are standard equipment.....P/N 12-06476 ..... ---

24” MANUAL BEAD ROLLER

Bead Rolls Sets Sold Separately. Max Capacity: 19 Ga(.040”) Mild Steel. 16 Ga(.050”) Aluminum. 21 Ga(.035”) Stainless Model 210-24M
P/N 12-02746 ..... ---

SEE WWW.AIRCRAFTSPRUCE.COM FOR ROUND ROLL AND STEP ROLL PART NUMBERS.

UPPER RADIUS FINGER KITS

Mittler Bros. upper radius finger kits (radius measured inside of bend). **Note**: 48” kits come with qty 7 of 6” and one each of 3”, 2”, and 1” fingers.
1/8 Inch .....P/N 12-02804 ..... ---
3/16 Inch .....P/N 12-02806 ..... ---
1/4 Inch.....P/N 12-02808 ..... ---
5/16 Inch.....P/N 12-02811 ..... ---

AIRCRAFT PUNCH & FLARES 1”- 6” OD

Just drill a pilot hole for the 1/2” draw bolt, apply the tool and tighten the bolt for a smooth, flared hole in one easy step. Punch hole only by removing female flare ring and use punch and die. Easily mounts in our Bench Presses.

OD	Part No.	Price
1”	12-02778	---
1-1/4”	12-02779	---
1-1/2”	12-02780	---
1-3/4”	12-02781	---
2”	12-02782	---
2-1/4”	12-02783	---
2-1/2”	12-02784	---
2-3/4”	12-02785	---
3”	12-02786	---
3-1/8”	12-02787	---

OD	Part No.	Price
3-1/4”	12-02788	---
3-1/2”	12-02789	---
3-3/4”	12-02790	---
4”	12-02791	---
5”	12-02792	---
6”	12-02793	---
7 piece set 1”-3” (w/o 2-1/4” & 2-3/4”)	12-02794	---
9pc Set 1”- 3”	12-02796	---
13pc Set 1”- 4”	12-02795	---

INSTRUMENT HOLE PUNCH

OD	Part Number	Price
2-1/4”	12-02797	---
3-1/8”	12-02798	---

WHEELING MACHINE (BENCH MODEL)

Clearly, this is the most popular of in-home English Wheels. Metal Ace offers extensive anvil configurations to meet your needs. Plus, with the new gusseted frame, it’s the strongest benchtop wheel on the market. Trick out your custom-built bike or complete hobby projects without breaking the bank. These English wheeling machines provide outstanding performance on small jobs like motorcycle tanks, tank covers, seat cowls and aircraft fillets. Versatile use - mount on bench, clamp in vise or use with optional welded stand. Proudly made in the USA. **Features**: • Thickness capacity for steel is 18 gage;16 gauge with optional stiffener brace. • Features can be rolled into the center of a 44” panel. • Can be mounted to a bench, clamped in a vice or used with the optional welded floor stand. • Optional wheels and stand sold separately. • Anvil yoke is adjustable on both sides of the axle support with thumb screws so the anvil wheel can be trued with the upper wheel. **Specifications**: • 3.25” radius lower anvil • 8” upper wheel • 22” throat depth • Reinforced frame • 18 gauge mild steel capacity .080 AL capacity • Made in the USA.
Wheeling Machine MA 22B.....P/N 12-00571 ..... ---

ACCESSORIES

Radius Wheel 5” 22B-5.00 .....P/N 12-02026 ..... ---
Radius Wheel 5” 22B-5.00 Narrow .....P/N 12-02027 ..... ---
Radius Narrow Offset Wheel 5” 22B-5.00NO..P/N 12-02028 ..... ---
Optional Stand for the 22B Wheeling Machine MA22B-STAND
P/N 12-00575 ..... ---

PLANISHING HAMMER

Speed up fabrication time on complex multi form aluminum and steel panels for making those impossible to find replacement parts. • 4600 Hits Per Minute @ 90 PSI • Rear Adjuster Sets Load Force & simplifies Anvil Changes • Foot Pedal Control for Hands Free Operation • 9 Radius Anvil Heads Included: 3/4” , 1-1/2”, 2”, 3”, 4”, 6”, 8”, 12” & Flat • 12”
Model 2700.....P/N 12-02813 ..... ---
24” Model 2700-24 .....P/N 12-02814 ..... ---

TO

SEE WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE SELECTION OF MITTLER BROTHERS TOOLS.

MILTON 1/4" FNPT FEMALE M-STYLE KWIK-CHANGE® COUPLER

Milton 1/4" FNPT Female M-Style KWIK-CHANGE® Coupler. Milton Industries is proud to be the creator and leader of the pneumatic industry standard M-Style coupler. This 1/4" FNPT M style brass coupler has a 1/4" basic flow size, offering a maximum of 300 PSI. Comes with Buna-N seal and air flow of 40 SCFM.....P/N 12-05332 ..... ---

MILTON DUAL HEAD CHUCK DIAL TIRE GAUGE 0-160 PSI

Milton (S-936) High Pressure Dial Tire Pressure Gauge - Dual Head Air Chuck and 12" Hose.
No need to worry about batteries with this durable dual head chuck dial tire gauge with a working pressure range of 0-160 PSI has dial-type gauge with internal diaphragm construction for greater durability. Includes a 12" hose and 45 degree chuck head with deflator valve. Comes with a protective rubber boot for added durability.....P/N 12-05342 ..... ---

MILTON TIRE VALVE EXTENSION

Replacement Extension Core.
Features: • Replacement Part • Valve core extension • For Milton high pressure gages..... P/N 12-05381 ..... ---

MILTON INFLATOR GAGE DUAL HEAD CHUCK - 15" HOSE

Milton Original Dual Head Chuck Tire Inflator Gauge - 15" Hose. Milton Industries specializes in tire inflator gauges and this original S-506 dual chuck inflator gauge was the first gauge of its kind ever built in the industry. Gauge and valve cartridges are both replaceable. This essential pneumatic tool is ideal for any vehicle trunk, home garage, or automotive shop. Dual head chuck inflator gauge is made of heavy duty construction which provides for long life, even under extreme use and conditions. Equipped with magnifying lens for full view of scale. 1/4" NPT air inlet. .....P/N 12-05331 ..... ---

MILTON TIRE VALVE ADAPTER

Government - Tire Valve Adaptor.
Features: Extension assembly with clip ring and chain.
P/N 12-05380 ..... ---

MILTON LOW PRESSURE TIRE GAGE 2-20 PSI

Low pressure tire gauge for 2-20 PSI provides accurate, long life with trouble free performance. Made of a durable plated brass with 4 side nylon indicator bar. Always check tire pressure when tires are cold.
P/N 12-05322..... ---

MILTON COMPRESSOR ACCESSORY KIT

Milton (S-220) Air Compressor Accessory Starter Kit, (16-Piece)This inclusive variety of pneumatic compressor accessories make the perfect start kit for a new compressor or just updating a current compressor. Includes 16 popular Milton items to fit versatile needs and projects (such as: inflating/checking tire pressure, inflating sports equipment, blowing debris, mending/connecting hoses, connecting air tools quickly, etc.). Ideal for DIY projects, repair shop, mobile repair and maintenance.....P/N 12-05323 ..... ---

MILTON MALE HEX 1/4 NPT X 1/4 NPS

1/4" MNPT hex nipples are brass hose fittings that are used to assemble new hoses or replace old fittings on hoses. 1/4" Male NPT x 1/4" NPS ball socket.
P/N 12-05328 ..... ---

MILTON 0-400 PSI DUAL HEAD CHUCK STEM PRESSURE ASSEMBLY

This dual chuck stem pressure gauge assembly kit includes a flexible hose whip and metal carrying case. Pressure range of 0 - 400 PSI.....P/N 12-05376 ..... ---

MILTON GAUGE 1/4 NPT 0-160 PSI - BOTTOM MOUNT

Use this pressure gauge for reliable service with compressors, regulators, air lines, pneumatic tools and equipment. Made up of a brass mechanism, ABS case and a polycarbonate lens, this gauge is resistant to heat, corrosion, water, salt water and oil. Can also be used in steam applications if less than 120 degrees Fahrenheit. The 1/4" NPT pressure gauge has a bottom mount and offers a pressure range of 0 to 160 PSI. 2" face diameter... P/N 12-05336 ..... ---

MILTON GOVERNMENT - HIGH PRESSURE SAFETY INFLATOR

Government - High Pressure Safety Inflator.
Features: 0-600 psi • Adjustable pop-off valve • 10 ft. hose assembly for safe distance operation • NSN #: 6685-00-124-4336 • Milton CAGE #: 94894 • Complies with MIL-I-85352 (Part No. M85352/1)
P/N 12-05371 ..... ---

MILTON DIAL TIRE GAGE 0-60 PSI

45 degree dial type tire gauge has an internal diaphragm construction for greater durability. 45 degree chuck head comes with deflator valve and durable rubber boot.
0-60 PSI.....P/N 12-05329 ..... ---
0-160 PSI.....P/N 12-05330 ..... ---

MILTON 1/4 INCHES MNPT M-STYLE PLUG

1/4" M style MNPT plugs are the industry standard style plugs. These steel plugs have a 1/4" basic flow size, maximum air flow of 40 SCFM and a maximum inlet pressure of 300 PSI. P/N 12-05334 ..... ---

MILTON SCREW-ON AIR CHUCK

Screw-On Air Chuck.....P/N 12-05363 ..... ---

MILTON 4 BLOW GUN DELUXE TIP KIT

Milton S-194KIT KWIK-CHANGE® PRO Series Safety Tip Blow Gun Kit - 235 Max PSI, (4-Piece) Tackle multiple pneumatic projects confidently with Milton's inclusive 4-piece S-194KIT PRO Series Safety Tip Blow Gun Kit, which includes an OSHA-compliant Safety Tip Nozzle and KWIK-CHANGE® Universal Tip System. The 5" angled stainless steel safety nozzle is designed with a side safety vent, avoiding accidental damage or forced air in the event of the blow gun tip being obstructed. The slim nozzle is also ideal for reaching into tight or narrow spaces. The pistol grip type body of this blow gun offers a dual material, contoured grip for comfort and variable airflow trigger. Offers a pressure range of 50 to 235 PSI and 15.18 SCFM.
P/N 12-05320 ..... ---

MILTON ADJUSTABLE M STYLE POCKET BLOW GUN

M style adjustable pocket blow guns offer an easy grip, two finger control to adjust from full volume air flow to complete shut off. Knurled grip for secure handling even with oily or greasy fingers. Fits M style couplers, or any 1/4" body industrial style couplers. Maximum pressure of 150 PSI or 15.9 SCFM at 100 PSI.
P/N 12-05321 ..... ---

MILTON MNPT ID HOSE END FITTINGS

Features: • Assemble new hoses or replace old fittings • Secure with a crimped ferrule for best results
1/4" MNPT 1/4" ID hose end fitting ...P/N 12-05324 ..... ---
1/4" MNPT 3/8" ID hose end fitting ...P/N 12-05325 ..... ---

MILTON 1/4 FNPT SAFETY COUPLER - M-STYLE

Milton S-99705 - 1/4" FNPT M style safety couplers are easy to use. Simply push once to stop airflow, twice to release plug. Safety couplers prevent possible injury or damage due to accidental disconnects. OSHA required in certain areas and applications. M style couplers have a 1/4" basic flow size and offer air flow of up to 36 SCFM. Maximum pressure of 300 PSI. Red button color for easy identification.....P/N 12-05326 ..... ---

MILTON STANDARD BORE AIR CHUCK

The Milton Standard Bore Air Chuck - Open is a specially designed air chuck that locks onto the cap threads of a Standard Bore valve stem when the sliding sleeve is pushed to the forward position. The chuck releases when the sleeve is pulled back. Available for use with tire changers and auto tire inflators .....P/N 12-05352 ..... ---

SEE OUR COMPLETE SELECTION OF MILTON TOOLS ON OUR WEBSITE.

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MILTON 1/4" MNPT MALE M-STYLE KWIK-CHANGE® COUPLER

Milton Industries is proud to be the creator and leader of the pneumatic industry standard M-Style coupler. This 1/4" MNPT M style brass coupler has a 1/4" basic flow size, offering a maximum of 300 PSI. Comes with Buna-N seal and air flow of 40 SCFM. Both the body and sleeve are made of brass.

P/N 12-05333 ..... ---

MILTON 1/4 INCH FNPT M-STYLE PLUG

1/4" FNPT M style plugs have a 1/4" basic flow size and air flow of 40 SCFM. Made of case hardened steel and plated to resist rust, M style plugs have a maximum pressure of 300 PSI. ..... P/N 12-05335 ..... ---

MILTON 1/4 NPT FILTER WITH POLYCARBONATE BOWL

This (EX25F40A-02P) 1/4" NPT Air Filter features a polycarbonate bowl with a capacity of 7.4 oz. Bowl can be automatically drained under pressure, or manually by rotating drain valve at bottom of filter with a push-to-connect drain tubing connection that channels water safely away. Max Air Flow of 140 CFM combined with a max operating pressure of 145 PSI. Always install filter 20' feet down line of air compressor to allow air to cool and lessen the amount of water carried through the supply line. FRL components feature directional arrows to indicate the flow of air. P/N 12-05338 ..... ---

MILTON 1/4 NPT LUBRICATOR 5 OZ POLYCARBONATE BOWL

This 1/4" NPT Air Lubricator features a Polycarbonate bowl with a capacity of 4.56 oz. FRL Lubricator delivers a consistent mist of oil through the airline and extends tool life. Oil amount is easily adjusted by rotating dial at the top of the unit. FRL Lubricator can be refilled either by removing bowl or filling through oil fill cap on top. Max Air Flow of 175 CFM and a max operating pressure 145 PSI. .....P/N 12-05340 ..... ---

MILTON REGULATOR 1/8 NPT MINI WITH 5-120 PSI GAUGE

This 1/8" NPT Mini Air Regulator maintains consistent pressure and prevents overdriving tools. The FRL Regulator features 1 5/8" dial gauge readings in PSI and MPa, and includes a lockout knob that allows set PSI pressure. Adjustment ranges 5-125 PSI. Max Air Flow of 20 CFM and max operating pressure of 145 PSI. Gauge thread: 1/8" center mount.

P/N 12-05341 ..... ---

MILTON SLIP SLEEVE FOR GAGING ELEMENT

Government - Slip-Sleeve Constant Bleed Detachable Fitting.

Milton Slip Sleeve For Gaging Element ..... P/N 12-05385 ..... ---
Slip Sleeve-Detachable Fitting ..... P/N 12-05386 ..... ---

EASY OUT SCREW EXTRACTORS

Black Max spiral screw extractor grips screw firmly with its tapered, left-handed spiralflutes. Intended to remove screw manually with T-handle tap wrench or equivalent. Features: • Black oxide coating for maximum corrosion protection and cutting performance • Black oxide coating combined with a tough carbon tool steel construction ensures longer life • Extractor size is permanently etched on the tool for quick and easy reference. Specifications • To remove Bolts/Screws: 3/32" to 5/32" • Use Drill Bit Size: 5/64" • Shank Diameter: 1/8" • Point Diameter: 0.060"

Description	Part No.	Price
3/32" to 5/32"	12-02873	---
5/32" to 7/32"	12-02874	---
7/32" to 9/32"	12-02875	---
9/32" To 3/8"and 1/8" Pipe	12-02876	---
3/8" To 5/8"and 1/4" Pipe	12-02877	---
5 Piece Set	12-02882	---

RYOBI PLANER

The Ryobi cordless Hand Planer has the power of a corded hand planer when powers through the toughest jobs. The rear mounted "kickstand" keeps blades from contacting surfaces when the unit is placed shoe down between operations. The pommel front handle and rear handle designed with overmold for added comfort. Dust ejection adjusts for left or right exhaust. All these great features are a part of the Ryobi ONE+™ system which has have 40 tools and batteries. Depth adjustment knob adjusts from 0-1/64". Dual carbide blades for smooth, accurate planning. Rear mounted "kickstand" keeps blades from contacting a surface when the planer is set down between aperations. Extended front for balance and accuracy. MFG Brand Name : Ryobi. MFG Model # : P610. MFG Part # : P610

18 V Planer.....P/N 12-02824 ..... ---
BI P100 ONE+ Nickel-Cadium 18-V Rechargable Battery
P/N 12-02825 ..... ---
P131 ONE+ 18-V IN-Vehicle Charger .....P/N 12-02826 ..... ---

RYOBI PLANER KIT

Kit includes:

(1) 18 Volt Planer - The Ryobi cordless Hand Planer has the power of a corded hand planer when powers through the toughest jobs. The rear mounted "kickstand" keeps blades from contacting surfaces when the unit is placed shoe down between operations. The pommel front handle and rear handle designed with overmold for added comfort. Dust ejection adjusts for left or right exhaust. All these great features are a part of the Ryobi ONE+™ system which has have 40 tools and batteries.

(1) P100 ONE+ Nickel-Cadmium 18-Volt Rechargable Battery - The Ryobi ONE+ Nickel-Cadmium 18-Volt Rechargeable Battery provides extended run-time and works with all present and past Ryobi 18-volt ONE+ tools and chargers.

(1) P131 ONE+ 18-Volt In-Vehicle Charger - The Ryobi ONE+ 18-Volt In-Vehicle Charger is compatible with all past and present Ryobi 18-volt ONE+ NiCd and lithium-ion batteries. It plugs conveniently into a vehicle's 12-volt DC outlet and takes less than an hour to charge the batteries fully. .....P/N 12-02827 ..... ---

MILTON COUPLER WASHERS

Milton Washer 768 for an M & T Style coupler. Comes in a pack of 10.....P/N 12-05432 ..... ---

MICROMETERS

ELECTRONIC MICROMETER

Quick, accurate, easy-to-use and coolant, water and oil resistant to IP54 standards, Fowler's Electronic IP54 Outside Micrometers offer the same features as Fowler's standard electronic micrometers, but are robust enough to perform in situations where regular electronic micrometers fail .....P/N 12-03414 ..... ---

ELECTRONIC MICROMETERS

P/N 12-03410 **P/N 12-03411** **P/N 12-03412**

Quick, accurate, easy-to-use and coolant, water and oil resistant to IP54 standards, Fowler's Electronic IP54 Outside Micrometers offer the same features as Fowler's standard electronic micrometers, but are robust enough to perform in situations where regular electronic micrometers fail.

Description	Part No.	Price
2-3" Ip54 54-860-003-1	12-03410	---
3-4" Ip54 54-860-004-1	12-03411	---
1-2" Water Resistant 54-860-002-0	12-03412	---

ELECTRONIC OUTSIDE MICROMETER SET

Quick, accurate, easy-to-use and coolant, water and oil resistant to IP54 standards, Fowler's Electronic IP54 Outside Micrometers offer the same features as Fowler's standard electronic micrometers, but are robust enough to perform in situations where regular electronic micrometers fail.
P/N 12-03413 ..... ---

MARK VI ELECTRONIC INDICATOR

0-1"/25mm Mark VI Electronic Indicator.
P/N 12-03420 ..... ---

MARK VI ANALOG ELECTRONIC INDICATOR

0-.500"/12.5mm Mark VI Electronic Indicator with Analog Display.....P/N 12-03424 ..... ---

MARK VI ELECTRONIC MICROMETER

0-.500"/12.5mm Mark VI Electronic Indicator, 8mm stem model.....P/N 12-03425 ..... ---

ADJUSTABLE MICROMETER STAND

A compact, well-constructed, folding micrometer stand with a unique locking mechanism that positions the micrometer over a 180° range for perfect use and viewing.....P/N 12-03423 ..... ---

ELECTRONIC XTENDER

The industries two most popular bore gage ranges combined in one easy-to-use ELECTRONIC set! All the same benefits included in the X-Tender Dial Bore Gage are now available with an electronic indicator providing inch/metric reading capability, preset size of master for absolute reading and minimum hold feature to lock on the bore size as the gauge is rocked in the part to be measured.
P/N 12-03416 ..... ---

METRIC BORE GAUGE SETTING MASTER

Using the new Fowler Bore Gage Setting Master and the included gage blocks you can now quickly and easily set virtually any bore gage from 0 to 150mm in diameter with an accuracy of .003mm. Gone are the numerous masters formerly required to accurately set your bore gage for use. Now with one setting master kit and the included gage blocks you can set your bore gage with ease. Each Fowler Bore Gage Setting Master Kit includes a bore gage setting master, and a 36 piece gage block set. Both come packaged in a high quality aircraft-style, shop-hardened aluminum case! All packaged in a high quality, shop-hardened aircraft-style aluminum case! Bore Gage shown is not included.....P/N 12-03421 ..... ---

POLY-CAL ELECTRONIC CALIPER

Poly-Cal Electronic Caliper Inch/Metric/ Fraction. Range: 6"/150mm.
P/N 12-03426 ..... ---

ELECTRONIC CALIPERS

Description	Part No.	Price
Iv 6"/150mm 54-100-330-1	12-03417	---
Iv 12"300mm 54-100-332-0	12-03418	---

XTRA-VALUE CALIPER AND DEPTH ATTACHMENT COMBO

Accuracy: .001"/.02mm. Range: 6"/150mm. Large east to read display. Resolution: .0005"/.01mm. Direct inch/metric conversion. Absolute/incre-mental measurement. 4-way measuring .....P/N 12-03427 ..... ---

MASTER BORE GAGE SET

Setting Bore gages is a breeze with Fowler's new Bore Gage Setting Master Kit! Using the new Fowler Bore Gage Setting Master and the included gage blocks you can now quickly and easily set virtually any bore gage from 0 to 6" in diameter with an accuracy of .0001". Gone are the numerous masters formerly required to accurately set your bore gage for use. Now with one setting master kit and the included gage blocks you can set your bore gage with ease. Each Fowler Bore Gage Setting Master Kit includes a bore gage setting master, and a 36 piece gage block set. Both come packaged in a high quality aircraft-style, shop-hardened aluminum case! All packaged in a high quality, shop-hardened aircraft-style aluminum case! Bore Gage shown is not included .....P/N 12-03408 ..... ---

TO

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Please view our website for current prices.

DIGITAL FRACTION CALIPERS

The Digital Fractional Caliper brings you three universal systems of measurement, making it an equally practical choice for both professional and do-it-yourself projects. The high-contrast digital display easily switches between inches, millimeters and fractions, with guaranteed accuracy to 0.001". In addition, the rugged stainless steel design delivers accurate readings of inside, outside, step and depth measurements. The Fraction+ comes with a foam padded plastic case for safe storage when not in use. **Features**: • Stainless Steel Caliper • Tri-Mode digital display – inches, millimeters, and fractions • For making inside, outside, depth and step measurements • Resolution 0.0005" (0.01mm) • Accuracy 0.001" (0.02mm) • Auto on/off feature preserves battery life • Bar scale is graduated in inches and millimeters • Free-wheeling friction roller advances and retracts slide • Extendable depth gage for use in slots and small holes • Etched and filled black graduations • Convenient foam-padded case for storage.

Digital Fraction Caliper - 6" .....P/N 12-02012 ..... ---
Digital Fraction Caliper - 8" .....P/N 12-02013 ..... ---
Digital Fraction Caliper - 12" .....P/N 12-02014 ..... ---

FRACTIONAL DIGITAL CALIPER 3 INCH

Three universal systems of measurementGuaranteed accuracy to 0.001". Delivers accurate readings of inside, outside, step and depth measurements. This 3" caliper fits conveniently into your pocket for working in the field. Range 0-3" (0-76mm) Resolution 0.0005" (0.01mm or 1/64"). Accuracy 0.001" (+/- 0.02mm). Auto on/off feature preserves battery life.Free-wheeling friction roller advances and retracts slide. Extendable depth gage for use in slots and small holes. Replacement Battery - SR54 or LR54.....P/N 12-02307 ..... ---

DIAL INDICATOR

0-1" Dial indicator with measuring resolution of .001"; equipped with mounting lug on back of body for multiple mounting options .....P/N 12-02709 ..... ---

STANDARD AND METRIC DIAL INDICATOR

AGD 2 series. Dial face reads in inch (black) or metric (red). Range: 1"/25mm. Graduation: .001"/.01mm. Reading: 0—100. Separated dial for Inch and Metric. Rotating bezel with clamp. Lugback included.

P/N 12-03659.....---

PROFESSIONAL GRADE MICROMETER

0-1" Professional grade micrometer with measuring resolution of .0001"; carbide anvil faces for long life and durability. Includes plastic case.

P/N 12-02707 ..... ---

DIGITAL SLIDING T-BEVEL

Takes the guesswork out of angle duplication and eliminates the problems associated with analog readings and manual measurement transfer. This is the first and only digital T-bevel on the market. It is ideal for measuring, storing and transferring inside and outside angles when building cabinetry, furniture and picture frames; installing tile and more. This highly accurate tool offers easy-to-read measurements via a large LCD display and integrates an 8" stainless steel blade with a steel locking knob. Practical function buttons make it ultra-convenient for setting and transferring measurements instantly.

P/N 12-03226 ..... ---

OFFSET KNOCKOUT PUNCHES (WITCHES FINGER)

Can be used to knock out those hard to reach stubborn fasteners. Available in 1/8", 5/32", 3/16", and 1/4" tip diameter. Also available in a 4 piece set.

Size	Part No.	Price
1/8"	12-02927	---
5/32"	12-02926	---
3/16"	12-02928	---
1/4"	12-02929	---
Set of 4	12-02925	---

"CENTER IT" HOLE DRILLING JIG

"Center It" is a jig used to drill holes in pipe or tube stock. To use the Center It, simply place it on your drill-press table, run the bit down (with the motor off) to hold the centered jig on the bit, then bolt the jig to the press table. No clamping of the tube is necessary; the angled flats of the jig hold it in a centered position. Your holes are automatically centered on the tube with no center-punching necessary. If the tube is too fat to drill in a single operation, simply turn it over. The device is useful to kitplane builders who have to drill several holes in a single tube or many tubes because no clamping or center-punching of the tube is required. It also makes short work of drilling .....P/N 12-20815 ..... ---

DRILL RITE PRECISION DRILL GUIDE

Light and portable, this tool provides straight and true holes every time. Your electric hand drill will perform like a professional drill press. The easy, accurate way to drill any curved surface: Simply place the Drill Rite VGuide™ on any type of pipe or round stock, from 1/2" to 2 1/2" in diameter. Swing the gate closed and lock it down. Insert the proper drill bit in the guide bushing and drill a precisely accurate hole. Includes super hardened drill bushings for popular 3/16" and 1/4" holes for rivets and aircraft hardware. Precision made in the U.S.A. from high quality aircraft grade aluminum.

P/N 12-00836. ..... ---

PLATE NUT DRILL JIG

One piece heat treated tool steel jig. Use for accurate & fast drilling of rivet holes for plate nuts. Has flexible handle design. Use for both on lug (both holes on 1 side) & two lug (holes on both sides) style nut plates - K1000 & K1100 style nutplates.

#6 Plate Nut Drill Jig.....P/N 12-03041 ..... ---
#8 Plate Nut Drill Jig.....P/N 12-03042 ..... ---
#10 Plate Nut Drill Jig.....P/N 12-03043 ..... ---

DIGITAL PRECISION PROTRACTOR

Displays absolute and relative angle measurements in a large, easy-to-read LCD window. This display offers a hold function and can be inverted 180° for easy reading when the tool is upside down. It features a 6" (150mm) stainless steel pivoting protractor arm with a knurled locking nut and one-button zero calibration, which ensures accurate readings every time. Take the guesswork out of measuring, marking and reading angles on your next woodworking or home improvement project. The UltraTECH Pro-ANGLE Digital Protractor displays absolute and relative angle measurements in a large, easy-to-read LCD window. For user convenience and comfort, the display offers a hold function and is easily inverted, or flipped, 180 degrees for reading upside down. Angles in any plane can be measured with accuracy to 0.1 degree and 0.05 degree resolution anywhere within a 0.00 to 180 degree range, making this tool useful for many applications.....P/N 12-03224 ..... ---

DIGITAL ANGLE FINDERS

These new angle finders combine the ruggedness of analog rulers (standard and metric) together with the digital technology needed for complete accuracy when measuring inside, outside and reverse angles. Precise measurements prevent waste by facilitating exact miter cuts. One button activates the reverse angle function, a hold button digitally saves the measurement and the large ergonomic locking knob saves the angle manually. A big LCD readout makes measurements extremely easy to read while an innovative center check notch enables exact ruler placement marking. The Models 822 (Patent Pending) are ideal for framing, custom furniture-building, stair and patio construction, flooring, tiling basically all woodworking, carpentry and contractor needs in the shop or in the field.

5 inch.....P/N 12-03223 ..... ---
10 inch.....P/N 12-03222 ..... ---

TO

HAND RIVET SQUEEZER

Features includes an all-steel construction, adjustable set holder (accepts all sets with 3/16" shank), and long handles for increased force. The yoke is made of the highest quality tool steel, and by simply removing 3 pins you can change the yoke to match your riveting or dimpling application. Each squeezer includes the yoke of the coordinating size.

Description	Part No.	Price	Description	Part No.	Price
1" Squeezer	12-01460	---	1" Yoke	12-01457	---
2" Squeezer	12-01461	---	2" Yoke	12-01458	---
3" Squeezer	12-01462	---	3" Yoke	12-01459	---

STAINLESS STEEL HAND SQUEEZER

This stainless steel hand squeeze made of quality stainless steel construction. Features include an adjustable set holder (accepts all sets and dies with 3/16" shank) and a locking lever arm. Yokes are easily interchangeable by simply removing three roll pins and designed to accept yokes and parts made by other stainless steel hand squeeze manufacturers. Includes a 3" Yoke. 1.5" is sold separately.

S/S Hand Squeeser 3" ..... P/N 12-01464 ..... ---
1.5" Yoke ..... P/N 12-01547 ..... ---
3" Yoke ..... P/N 12-01548 ..... ---

QUICK CHANGE PIN

Quick Change Pin. Makes changing yokes quicker & easier.

3/4" Reach ..... P/N 12-01798 ..... ---

RIVET SET FOR SQUEEZER

12-01466 12-01561

(FLUSH & CUPPED) - Made of steel and heat-treated for long wear and tool life. .187" (3/16") shank. • 2 Flush sets required for Flush Head Rivets • 1 Flush and 1 Cup required for Round Head Rivets. • Sold as individual items / not a pair

Description	Part No.	Price
Flush 1/8	12-01466	---
Flush 3/16	12-01554	---
Flush 5/16	12-01556	---
Flush 3/8	12-01557	---
Flush 7/16	12-01558	---

Description	Part No.	Price
Flush 1/2	12-01559	---
Cupped 1/8	12-01561	---
Cupped 5/32	12-01562	---
Cupped 3/16	12-01563	---

1-1/2" AND 3 YOKES

• Holds 3/16" die sets • Adjustable set holder • Stainless steel construction. 1-1/2" ..... P/N 12-01547 ..... ---
3" ..... P/N 12-01548 ..... ---

DIMPLE DIES

For any .187 shank diameter squeezer.

3/32" ..... P/N 12-01468 ..... ---
1/8" ..... P/N 12-01564 ..... ---
5/32" ..... P/N 12-01565 ..... ---
3/16" ..... P/N 12-01566 ..... ---

Economy Dimple Die Set Includes: 3/32", 1/8", 5/32", 3/16" ..... P/N 12-01467 ..... ---

SCREW REMOVAL TOOL

• Useful in removing screws that are corroded or have stripped heads • 401 Parker taper shank for use in rivet gun • 3/8" square socket end • Use standard Phillips or Slotted insert bits • Rivet gun required • 1/4" hex adapter not included. 4" Tool ..... P/N 12-01567 ..... ---

MICRO-STOP

This tool permits you to set the desired cut depth to help eliminate mistakes and skin damage. • 1/4" Shaft travel • Depth adjustable in .001" increments • 1/4"-28 Female Threads • Rated for 3,000 RPM ..... P/N 12-01470 ..... ---

HEAVY DUTY RIVET CUTTER

This heavy-duty rotary cutter is designed to quickly and easily shear aluminum rivets. Just insert the rivet into the correct sized hole and set to desired length; adjustable for 1/4" to 3/4" long rivets in 1/16" increments. Cuts diameters of 3/32", 1/8", 5/32", 3/16", 7/32", and 1/4".

P/N 12-01471 ..... ---

ECONOMY RIVET SET

2.5" Straight & Offset Rivet. Made of steel and heat-treated for long tool life. The precision made cups are highly polished. • .401 shank • Length: 2.5" • Cup Sizes: 3/32", 1/8", 5/32" & 3/16" • For AN470 rivets

2.5" Straight 3/32" ..... P/N 12-02318 ..... ---
2.5" Straight 1/8" ..... P/N 12-02319 ..... ---
2.5" Straight 5/32" ..... P/N 12-02320 ..... ---
2.5" Straight 3/16" ..... P/N 12-02321 ..... ---

ALUMINUM BODY MINI AIR VACUUM

A handy air powered vacuum works off an air compressor and is simple to use. Attached 12" clear plasticflex tube can easily get into tiny spaces to clean. The canvas bag is easily removed for cleaning. P/N 12-01474 ..... ---

CHIP CHASER

Ideal for removing chips and burrs from between metal after drilling rivet holes. Each chaser features a plastic molded handle and flexible steel blade with hook on the end. Blades are 5.5"and 2.5" long.

2.5" ..... P/N 12-01597 ..... ---
5.5" ..... P/N 12-01476 ..... ---

DOGLEG DEBURRING TOOL

Swivel action of this tool makes deburring holes fast and easy. Shaft includes a 1/4"-28 threaded holder.

*Flute De-burring cutter sold separately - P/N 12-00625

P/N 12-01478 ..... ---

Accessories

Replacement Deburring Bit ..... P/N 12-03755 ..... ---
Swivel Handle Only ..... P/N 12-00623 ..... ---
Extension Shaft only ..... P/N 12-00624 ..... ---
HSS 3 Flute De-burring cutter ..... P/N 12-00625 ..... ---

CLECO PLIERS

Used in limited access areas, requires less travel per activation. ..... P/N 12-01480 ..... ---

CLECALL STEEL UPRIGHT CLECO PLIERS

Clecall Upright Steel Cleco Pliers: Faster to use / Easier to Activate. Spring Loaded to open with less effort. Latest design accommodates 1/4" Cleco width. Forged steel for heavy duty use. Handle Compression distance reduced further for more comfort. Reduce fatigue and wrist pain. Vertical profile installs clecos in tight areas with ease. Install clecos on upside down surfaces easily.....

Economy Steel Pliers ..... P/N 12-03756 ..... ---

SPRING TENSION CLAMPS (ZINC ALLOY YOKE OR STEEL YOKE)

Spring tension clamps can be applied in a fraction of the time required for ordinary screw clamps. The clamp, with 2" throat depth, has a Zamak alloy yoke and a steel spring which provides a 70 lb. clamping pressure. Designed for use with sheet holder pliers.

Description	Grip Range	Part No.	Price
Zine Alloy	0 - 1/2"	12-01481	---
Steel 2"	0 - 1/2"	12-01482	---
Steel 3"	1/4" - 5/8"	12-01483	---

SIDE GRIP CLAMPS

Designed to hold two or more work pieces together where no holes exist. Clamping force is applied at edge of work. Spring loaded, plier actuated. The lack of a takeup screw makes it impossible to over-tighten and damage the work surfaces or the clamp. There are 4 standard sizes : 1/2 x 1/2", 1/2 x 1", 3/4 x 1/2" , 3/4 x 1".

Description	Part No.	Price
1/2" x 1/2"	12-01484	---
1/2" x 1"	12-01485	---
3/4" x 1/2"	12-01486	---
3/4" x 1"	12-01487	---

DRILL STOPS

Use when drilling in sheet metal to help eliminate drill breakage & surface marks. Safely keeps drill from going too far through the work. Drill stops have a coiled spring to cushion the drill breakthrough & prevents the drill chuck from marring the work surface. Color coded for easy identification.

#10 ..... P/N 12-01488 ..... ---
#20 ..... P/N 12-01489 ..... ---
#30 ..... P/N 12-01490 ..... ---
#40 ..... P/N 12-01491 ..... ---
#1/4 ..... P/N 12-01492 ..... ---
#5/16 ..... P/N 12-01493 ..... ---

CYLINDER BASE NUT WRENCHES

Where torque application accuracy is critical these tools meet the requirement. They offer excellent rigidity and surpass other wrenches in overall quality and efficiency. Wrench Type A is for sizes 1/2", 9/16", 5/8", and 3/4" hex nuts.

Also available in a kit.

Type A 1/2" ..... P/N 12-01525 ..... ---
Type A 9/16: ..... P/N 12-01568 ..... ---
Type A 5/8" ..... P/N 12-01569 ..... ---
Cylinder Base Nut Wrench Set ..... P/N 12-02302 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

STRAP DUPLICATOR (BUSHING TYPE)

For drilling an accurate hole in overlapping sheets. The Bushing type duplicator is used by sliding the end with the pin between the sheets and locating the hole to be duplicated from inside. P/N 12-01498 is pictured.

Description	Part No.	Price	Description	Part No.	Price
#10 6-1/4"	12-01494	---	#10 13-1/4"	12-01499	---
#21 6-1/4"	12-01495	---	#21 13-1/4	12-01501	---
#30 6-1/4"	12-01496	---	#30 13-1/4	12-01502	---
#40 6-1/4"	12-01497	---	#40 13-1/4	12-01503	---
1/4" 6-1/4"	12-01498	---	1/4" 13-1/4	12-01504	---

STRAP DUPLICATOR (INVERTED TYPE)

For drilling an accurate hole in overlapping sheets. The inverted type duplicator allows you to locate a hole from the back of an overlaping sheet. #10 #21 #30 #40 1/4" drill sizes, 6-1/4" or 13-1/4". P/N 12-01507 is pictured.

Description	Part No.	Price	Description	Part No.	Price
#10 6-1/4"	12-01505	---	#10 13-1/4"	12-01510	---
#21 6-1/4"	12-01506	---	#21 13-1/4	12-01511	---
#30 6-1/4"	12-01507	---	#30 13-1/4	12-01512	---
#40 6-1/4"	12-01508	---	#40 13-1/4	12-01513	---
1/4" 6-1/4"	12-01509	---	1/4" 13-1/4	12-01514	---

ECONOMY BLIND HOLE SPOTTERS

12-01775 12-01774 12-01773 12-01771

For inserting into drilled holes already bored and marking exact center for opposite hole. Available size: 5/16", 1/4", 3/16", 5/32" and 1/8"

Description	Part No.	Price
5/16"	12-01775	---
1/4"	12-01774	---

Description	Part No.	Price
3/16"	12-01773	---
1/8"	12-01771	---

EDGE BREAKER

This tool allows the quick removal of burrs and roughness from the edges of sheet metal. .25" or .187" in diameter grooved blade with safety shield. Safety-grip plastic handle .....P/N 12-01527 ..... ---

AIR SWIVELS & REGULATOR TOOLS

Air Swivel Connector W/ Regulator (Pictured to the left) .....P/N 12-01530 ..... ---
Air Swivel Connector.....P/N 12-01529 ..... ---
Air Swivel Regulator.....P/N 12-01545 ..... ---

BRASS RIVET SET

This rivet set has a soft face to prevent damage to the fastener when inserted or removed. Fits into any standard rivet gun or air hammer that supports .401" shank tooling, 3 1/8" overall length. .....P/N 12-01543 ..... .---

RIVET GUN SHAFT REDUCER

Rivet set adapter sleeve, .401 shank. Made of hardened steel (SKD11) and is open at both ends to allow maximum riveting power .....P/N 12-01544 ..... ---

ECONOMY SAFETY WIRE TWISTERS

These top quality twisting lock pliers with automatic return are economically priced and extremely durable. Features a sharp cutting edge and will twist up to .060" dia. safety wire. Length 6"& 9". Foreign made.
6" .....P/N 12-01472 ..... ---
12" .....P/N 12-01473 ..... ---

CANNON CONNECTOR PLIERS

The tool features serrated jaws for improved gripping and a slip joint for improved leverage. Ideal for all common cannon connector applications.
P/N 12-01531 ..... ---

SHOP HEAD RIVET GAUGE SET

Set of four gauges for -3, -4, -5, -6 rivets. Each gauge measures Minimum height and Minimum diameter of shop heads AFTER setting. Eliminates guessing if your rivets are properly set. Works for measuring both universal head and flush rivets. Precision machined to size from 2024 aluminum. Rivet size permanently stamped on each gauge. Color coded anodized finish.
P/N 12-01533 ..... ---

RIVET LENGTH GAUGE

One gauge measure -3, -4, -5, -6 rivets. Used to check for proper length of rivets Before setting. Eliminates measuring and guessing of rivets lengths. Works for both universal head and flush rivets. Precision machined to size from 2024 aluminum. Rivet size permanently stamped. Blue anodized finish.
P/N 12-01534 ..... ---

DRILL EXTENSION THREADED

These are used to extend a straight chuck drill to 1/4-28 female threads.
2" .....P/N 12-01535 ..... ---
4" .....P/N 12-01536 ..... ---
6" .....P/N 12-01537 ..... ---

DRILL EXTENSION DUAL THREADED

Use these different length extensions in your 90°or 45° drills. 1/4"-28 male threads on one end and 1/4"-28 female threads on other.
2" .....P/N 12-01541 ..... ---
4" .....P/N 12-01542 ..... ---

SLIM MICRO-STOP

A slim design that's only 11/16" outside diameter. Used for those narrow areas that can't be reached with a standard micro-stop. • 1/4" Shaft • 1/4"-28 Female Threads • Adjustable in .001" increments • 1/2" Cutter Capacity • Rates for 3000 RPM use.
P/N 12-01790 ..... ---

MICRO-STOP (LONG NOSE)

This micro-stop reaches into very confined areas. • 5/16" Quick-change Shaft or regular chuck • 1/4"-28 Female Threads • Adjustable in .001" increments • 3/8" Cutter Capacity • Rates for 3000 RPM use
P/N 12-01789 ..... ---

MICRO-STOP (NYLON FACE)

• 1/4" Shaft • 1/4" -28 Female Threads • Adjustable in .001" increments • 11/16" Cutter Capacity • Rates for 3000 RPM use .....P/N 12-01788 ..... ---

5.5" STRAIGHT & OFFSET RIVETS

Made of steel and heat-treated for long tool life. The precision made cups are highly polished. .401 shank. Length: 5.5". Cup Sizes: 3/32", 1/8", 5/32" & 3/16". For AN470 rivets.

Size	Straight	Price	Offset	Price
3/32"	12-02326	---	12-02330	---
1/8"	12-02327	---	12-02331	---
5/32"	12-02328	---	12-02332	---
3/16"	12-02329	---	12-02333	---

ALUMINUM & NYLON RIVETS

Nylon
Aluminum

This rivet set has a soft face to prevent damage to the fastener when inserted or removed. Fits into any standard rivet gun or air hammer that supports .401" shank tooling. • Surface: 1" • Length: 3 1/8"
Nylon Rivet .....P/N 12-02342 ..... ---
Aluminum Rivet .....P/N 12-02343 ..... ---

RADIUS OR FILLET GAUGES

16 leaves, especially for checking radius of inside and outside fillets and corners. Checks 1/32 to 17/64" by 64ths.....P/N 432A..... ---

TO

ECONOMY AIRCRAFT TOOLS

ECONOMY RIVET GUNS

These popular 2X /3X /4X rivet guns used in aircraft manufacturing plants worldwide. "X" series rivet gun has an incomparable teasing triggers, allowing you to slowly begin riveting without damaging the skin. A lightweight aluminum handle with powder coat finish for comfort. Hardened & precision ground steel piston, cylinder, spool valve for long life. Includes spring retainer & brass air regulator.

Length	BPM	Capacity	Bore	Shank	Stroke	Weight (lbs)	Part No.	Price
6-11/16"	2580	1/8"	1/2"	.401"	2-1/4"	3.1	12-02034	---
7-5/16"	2160	3/16"	1/2"	.401"	2-7/8"	3.2	12-02035	---
8-1/2"	1740	1/4"	1/2"	.401"	3-1/16"	3.4	12-02036	---

ECONOMY FLUTING PLIERS

Narrow type fluting pliers are used for straightening out or coaxing sheet metal into the correct shape. This tool makes narrow and precise flutes in sheet metal.

P/N 12-01782 ..... ---

RIVET HOLDER

This tool holds your rivet, small bolt, or screw so you can get into those hard-to-reach areas.

P/N 12-01791 ..... ---

RIVET ECONOMY COLLAR CUTTER

se with your rivet gun to easily remove Huck and Hi-Lok type collars. Shank: 0.401 Size includes 1/8", 5/32", 3/16" & 1/4" Overall Length: 5 1/2"

1/8" .....P/N 12-02275 ..... ---
5/32" .....P/N 12-02276 ..... ---
3/16" .....P/N 12-02277 ..... ---
1/4" .....P/N 12-02278 ..... ---

ECONOMY FLUSH SET

5.5" & 7.5" Flush Set Made of steel and heat-treated for long tool life. Faces are polished to a high luster for smooth, precise riveting. .401 shank Surface: 1" Length: 5.5" & 7.5"

5.5:" .....P/N 12-02273 ..... ---
7.5" .....P/N 12-02274 ..... ---

JIFFY RIVET SETTERS

ECONOMY JIFFY STRAIGHT RIVET SETTER

For use with "Jiffy" style rivet gun. Made of steel and heat-treated for long tool life. The precision made cups and highly polished. 401 shank, Length: 1-3/16", Cup Sizes: 3/32", 1/8", 5/32" & 3/16", For AN470 rivets

3/32" x 1-3/16" .....P/N 12-02381 ..... ---
1/8" x 1-3/16" .....P/N 12-02382 ..... ---
5/32" x 1-3/16" .....P/N 12-02383 ..... ---
3/16" x 1-3/16" .....P/N 12-02385 ..... ---

ECONOMY JIFFY OFFET RIVET SETTER

For use with "Jiffy" style rivet guns. Made of steel and heat-treated for long tool life. The precision made cups are highly polished. 401 shank, Length: 1-3/4", Cup Sizes: 3/32", 1/8", 5/32" & 3/16", For AN470 rivets

3/32" x 1-3/4" .....P/N 12-02387 ..... ---
1/8" x 1-3/4" .....P/N 12-02388 ..... ---
5/32" x 1-3/4" .....P/N 12-02389 ..... ---
3/16" x 1-3/4" .....P/N 12-02390 ..... ---

ECONOMY RIVET GUN PUNCH

For use to remove rivet after collar is split. Made of steel and heat-treated for long tool life. 401 shank, Length: 3-1/2", Punch size includes: 3/32", 1/8", 5/32" & 3/16" & 1/4"

3-1/2" x 1/8" .....P/N 12-02392 ..... ---
3-1/2" x 5/32" .....P/N 12-02393 ..... ---
3-1/2" x 3/16" .....P/N 12-02394 ..... ---
3-1/2" x 1/4" .....P/N 12-02395 ..... ---

ECONOMY JIFFY FLUSH RIVET SETTER -

For use with "Jiffy" style rivet gun, polished flush surface Length: 1-3/16", For AN470 Rivets

P/N 12-02386 ..... ---

QUICK-CHANGE CHUCK

Allows tool change in seconds. Designed for drilling bits, countersinks, etc. with quick-change ends. 3/8" x 24 thread. .....P/N 12-01778 ..... ---

C-SET

This C-Rivet Set bends around obstacles and allows you to reach into awkward areas for riveting. • 3/16" diameter hole for any squeezer sets or dimple dies with 3/16" shaft • 401 shaft .....P/N 12-01776 ..... ---

RED BOX RIVET GUN TOOL KITS

RED BOX RIVET GUN TOOL KITS

• 1pc Rivet Gun (Choose Size 2X, 3X or 4X) • 1pc Brass Regulator • 1pc Beehive Retainer • 1pc Handi Retainer • 4pcs 3.5" Straight Rivet Set (3/32", 1/8" 5/32", 3/16") • 1pc Standard Flush Set (size: surface diameter 1", length 2-1/2") • 1pc Marvel Air Tool Oil (Made in USA) • 1pc Thread Seal Tape • 1pc Air Tool Fitting

2X Rivet Gun Tool Kit.....P/N 12-02047 ..... ---
3X Rivet Gun Tool Kit.....P/N 12-02048 ..... ---
4X Rivet Gun Tool Kit.....P/N 12-02049 ..... ---

RED BOX FLUSH RIVET SET

P/N 12-02050 ..... ---

RED BOX 3.5" RIVET SET

Size	Straight	Price	Offset	Price
3/32"	12-02051	---	12-02322	---
1/8"	12-02052	---	12-02323	---
5/32"	12-02053	---	12-02324	---
3/16"	12-02054	---	12-02325	---

RED BOX 7.5" RIVET SET

Size	Straight	Price	Offset	Price
3/32"	12-02334	---	12-02338	---
1/8"	12-02335	---	12-02339	---
5/32"	12-02336	---	12-02340	---
3/16"	12-02337	---	12-02341	---

TURNBUCKLE WRENCH

2 inch diameter turnbuckle wrench easily rotates turnbuckle while chain tool holds the cable ends in precise alignment and prevents them from rotating.

P/N 12-01795 ..... ---

TURNBUCKLE CHAIN TOOL

This tool consists of two clamps joined by sprocket type (bicycle) chain. When clamped to cable and fittings at each side of the turnbuckle, anchor the cable to allow free adjustment of the turnbuckle. The adjustment becomes a two hand instead of three hand adjustment .....P/N 12-01794 ..... ---

SPEED HANDLE 3/8"

Useful for quickly tightening and loosening a nut or bolt particularly where other types of wrenches will not reach.

P/N 12-01797 ..... ---

PHENOLIC SCRAPER

Scraper Blade, 2" wide x 6.5" long x 3/8" thick. Designed for use with a rivet gun (.401 shank). Phenolic scrapers are perfect for safely removing sealant, adhesives, stickers, labels, grime, and more. .....P/N 12-01796 ..... ---

SKIN WEDGE

Made of 4140 steel and heat-treated to perfection. • 7" long x 1" wide • Body thickness 1/4" .....P/N 12-01793 ..... ---

HEX KEYS

Designed to use when installing Hi-Lok style fasteners. Includes set screw and Allen key.

1/8" .....P/N 12-01785 ..... ---
5/64" .....P/N 12-01786 ..... ---
3/32" .....P/N 12-01787 ..... ---

ECONOMY DRILL EXTENSION THREADED

This threaded extension allows you to chuck threaded drill bits or countersinks into a quick-change chuck. It features a 5/16" quick change shaft on one end, and 1/4" -28 female threads on the other. The overall length of the extension is 3.46" ...P/N 12-01781 ..... ---

60° C-SET

Excellent for limited access areas. • 60° Angle • .401 shaft

P/N 12-01777 ..... ---

FORD WRENCHES

• General-purose adjustable wrench • Sliding Jaw • Forged from Crescent special Analysis Tool Steel • Chrome-plated • Precision Machined

9" Wrench .....P/N 12-03795 ..... ---
11" Wrench .....P/N 12-01784 ..... ---
15" Wrench .....P/N 12-03796 ..... ---

SEALANT MIXER

Designed to quickly and efficiently mix all types of pre-filled Semkit® packages. Has a 1/4' shank. Chuck it up in your drill to mix Semkit® sealant tubes ....P/N 12-01792 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ATS TOOLS

ATS AIR NIBBLER

ATS8300
- Cuts up to 16 ga (.060" / 15 mm) steel or aluminum
- Easily replaceable punch and die
- Weight 1.74 lbs (.79 kg)

P/N 12-01414..... ---

ATS PUNCH & FLANGING TOOLS

ATS8400
- Capacity 16ga (.060"/15mm) steel
- Punch Diameter 3/16" (5 mm)
- Flange width 1/2" (12 mm)
- Rubber comfort grip
- 9-3/4" (248 mm) Overall Length
- 2.75 lbs (1.25 kg)

P/N 12-01413..... ---

ATS AIR HYDRAULIC RIVETER

ATS8805
- Pulling Force 2,300 lbs (1,045 Kg)
- Rivet Capacity 3/16" aluminum or mild steel
- Stroke Length .63" (16 mm)
- Nosepieces: 3/32" (2.4 mm), 1/8" (3.2 mm), 5/32" (4.0 mm), 3/16" (4.8 mm)
- Weight 3.26 lbs (1.48 kg)

P/N 12-01423..... ---

ATS MNI ANGLE DIE GRINDER

ATS5105
- 1/4" (6.4 mm) Collet Size
- 5-1/2" (140 mm) Overall Length
- 1.1 lbs (.5 kg)
- 20,000 RPM Free Speed)

P/N 12-01416. ..... ---

ATS MINI DSIE GRINDER

ATS5101
- 1/4" (6.4 mm) Collet Size
- Front exhaust keeps work area clean!
- Very light weight .79 lbs (.36 kg)
- 26,000 RPM Free Speed)

P/N 12-01417..... ---

ATS 3" CUT-OFF TOOL

ATS8502
- 3" (75 mm) disc capacity, 3/8" (15 mm) mount
- Free speed 20,000 RPM
- Weight 1.74 lbs (.79 kg)

P/N 12-01420..... ---

ATS 90 DEGREE ANGLE DRILL

ATS6132
- Spindle 1/4"-28 Thread
- Head Length 1.08" (2.7 mm)
- 2,800 RPM
- Head Width .65" (1.6 mm) .33 hp
- 10" (254 mm) Overall Length
- Variable speed control 1.6 lbs (.73 kg)

P/N 12-01422..... ---

ATS HEAVY DUTY AIR DRILL

ATS6101
- 3/8" (9.5 mm) Jacobs® Chuck
- Full Cage Gear
- 2,600 RPM
- Variable speed control
- .67 hp (.5 kw)
- Ergonomic Design for Maximum Comfort
- 7-1/2" (190 mm) Overall Length
- 2.07 lbs (.94 kg)

P/N 12-01418..... ---

ATS HD REVERSIBLE AIR DRILL

ATS6104
- 3/8" (9.5 mm) Jacobs® Chuck
- Full Cage Gear For Smooth Operation
- 2,400 RPM • Variable Speed Control
- Fully Reversible with Positive Stop
- 7-1/2" (190 mm) Overall Length
- .67 hp (.5 kw)
- 2.86 lbs (1.3 kg)

P/N 12-01421..... ---

ATS PALM DRILL

ATS6100
- 1/4" (6.4 mm) Jacobs® Chuck
- Two-stage (Low/High) Control Trigger
- 5-7/8" (150 mm) Overall Length
- 1.54 lbs (.7 kg)
- 2,800 RPM Free Speed

P/N 12-01424..... ---

TO

BOSCH POWER TOOLS

BENCH GRINDER DISC - VERY FINE

Quickly remove carbon from pistons and valve stems. Great for light deburring head bolts and studs. One disc is flexible when run alone. Stack as many discs on at a time for the desired finish and removal rate. Safer than a wire wheel, with a much better finish. The very fine grade Bench Grinder Discs are packaged 10 to a pack, and the medium grade Bench Grinder Discs are packaged 5 to a pack. Size: 8" x 1/2" • Grain: A/O • Grade: Very Fine • Max RPM: 3,000

P/N 12-00849 ..... ---

7"CUTTING WHEEL 1/2" X BRE 1/16"

Oxide abrasive wheel - fine abrasive for burr-free cutting of thin wall tubing and applications which require a fine finish.

•Wheel Size: 7" x 1/16" x 1/2" • Max RPM: 8,700 • Weight: 6lbs • Standard Grades: A60TBE 3C14

P/N 09-02564 ..... ---

BOSCH TOP HANDLE JIGSAW

Toolless Blade-Change System – Fast insertion, blade ejection lever eliminates need to touch hot blade. Most secure jigsaw clamping system.

Features:

• Powerful 7.0-Amp Jigsaw – Top jigsaw amp rating. • Variable speed - Dial sets maximum speed and accelerator trigger controls operating speed. • Constant Response™ circuitry – Maintains desired speed for consistent performance and precision. • Aluminum gearbox with insulated cover • Toolless Blade-Change System – Fast insertion, blade ejection lever eliminates need to touch hot blade. Most secure jigsaw clamping system. • Internal Precision Control - Precision-machined plunging system and low-vibration design for enhanced accuracy and extremely smooth operation. • Large, sturdy die-cast foot with steel insert and on-board bevel wrench. • Exclusive multi-directional blade clamp provides superior grip of T-shank blades. (JS470E does not accept U-Shank blades) • Four orbital-action settings -Different blade strokes for smooth to aggressive cuts. • Adjustable dust blower keeps cutting line clear. • Ergonomic top handle with soft-grip areas for solid, comfortable grip. • Ambidextrous lock-on button – For steady long cuts and user comfort and control.....P/N 12-03215 ..... ---

BOSCH 3-1/4 INCH PLANER 120V

Powerful 6.0 amp motor, 16,500 RPM for fast stock removal and a smooth finish. Electronically-counterbalanced, single-blade system automatically positions blade at ideal cutting angle. Reduces drag and provides fast operation and a smooth finish. Eliminates uneven planing caused by misaligned blades. Equipped with Bosch Woodrazor™ micrograin carbide blades. Ratcheting depth knob that allows for fool-proof setting of depth increments from 0" to 1/16" (1.5 mm). Also features an edge guide fence. A protective shield covers the section of blade not in use. Amperage: 6.0. Cord Length: 10'. Country of Origin: Malaysia. No Load RPM: 16,500. Planing Depth: 0 - 1/16" (1.5 mm). Planing Width: 0" to 3-1/4". Rabbet Depth: 5/16". Rating: 120V AC. Shoe Length: 11 - 1/8".

P/N 12-02823 ..... ---

BOSCH TOP HANDLE JIG SAW 5 INCH RANDOM ORBIT SANDER

MODEL NO. ROS20VSK

Features:

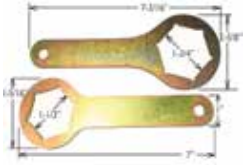
• Best all-around sanding performance and convenience. • Twist-off translucent dust canister shows dust level and detaches easily. Ant-spillback design prevents dust from spilling on removal. • Bosch Microfilter system traps dust particles as small as 1/2 micron. • Hook-Tight™ hook-and-loop disk attachment ensures firm grip of standard hook-and-loop sanding discs. • Comfortable, ergonomic soft-grip top and body • Integral pad dampening system prevents swirl marks • Soft microcellular backing pad ensures smooth, fine finish on flat or contoured surfaces. • Variable-speed dial allows matching of speed to work piece and task ..... P/N 12-01766 ..... ---

AIRCRAFT STATIC TEST ADAPTER

SA3Y-P-UNI-2 Aircraft Static Test Adapter. • Automatically attaches to aircraft fuselage • High pressure hoses with quick release fittings • Press to release button for static adapter removal • Safety check valves for power failure and system leaks • High impact yellow case with internal electric vacuum pump • Designed to fit most general & military aircraft static ports • Comes with 1/2 in center suction cup. Accessory kits are available for specific static ports • Power input: 115 V AC 50/60 Hz. Continuous operation • Custom voltages available: 12vdc, 28vdc, 115 vac & 220 vac • Size: 12" x 10" Wt. 8.5lbs.

P/N 13-20266 ..... ---

AXLE AND NOSE FORK NUT WRENCHES



These great little specialty tools are a must for all aircraft owners and mechanics as well. They are available in two sizes and will cover almost all GA aircraft. They are precision laser cut from 4130 chrome moly aircraft grade steel and heat treated to a 42 rockwell hardness so they are very strong. They then get zinc plated to prevent corrosion and provide many years of service. These are .135" thick so you can rotate axle nuts and test fit the keepers or cotter pins in place. These tools weigh 4 oz. each.

1-1/2 inch.....P/N 05-12377 ..... ---

1-3/4 inch.....P/N 05-12475 ..... ---

ULTIMATE PROPELLER WRENCHES

Unlike anything on the market at any price. This tool makes short work of R&R on your constant speed propeller. The one end ratchets without removal from the bolts and the other end is extremely strong fully reversible Crows Foot for torquing the propeller. Precision laser cut from 4340 Aircraft grade steel, heat treated to a 50 rockwell. Crows foot end is fully C&C machined for a perfect fit on the bolts. Utilizes both 1/2" & 3/8" ratchets, torque wrenches and extension tools. Crows foot end is offset 15° for double the versatility for difficult bolts behind prop blades. Black oxide plated for years of service and corrosion protection.

5/8 inch.....P/N 05-12481 ..... ---

3/4 inch.....P/N 05-12375 ..... ---

TRIM TAB ADJUSTMENT TOOL

Adjusts trim tabs evenly with less chance of scratching paint.

P/N 13-19791 ..... ---

TO

14 PIECE SAE COMBINATION WRENCH SET

• Canvas pouch included
• Raised panel design
• High density, dropped forged alloy steel for strength 9714
Includes: 712-3/8", 726-13/16, 714-7/16", 728-7/8", 716-1/2", 730-15/16", 718-9/16", 732-1", 720-5/8", 734-1-1/16", 722-11/16", 736-1-1/8", 724-3/4", 740-1-1/4"
P/N 12-01970 ..... ---

14 PIECE ANGLE HEAD SAE WRENCH SET

• Canvas pouch included
• Fully polished drop forged alloy steel
• 15° and 60° angled ends for added convenience 9914
Includes: 991401-3/8", 991408-13/16, 991402-7/16", 991409-7/8", 991403-1/2", 991410-15/16", 991404-9/16", 991411-1", 991405-5/8", 991412-1-1/16", 991406-11/16", 991413-1-1/8", 991407-3/4", 991414-1-1/4"
P/N 12-01975 ..... ---

14 PIECE ANGLE HEAD METRIC WRENCH SET

• Canvas pouch included
• Fully polished drop forged alloy steel
• 15° and 60° angled ends for added convenience 9914M
Includes: 991404M-6mm, 991408M-13mm, 991403M-7mm, 991409M-14mm, 991402M-8mm, 991410M-15mm, 991401M-9mm, 991411M-16mm, 991405M-10mm, 991412M-17mm, 991406M-11mm, 991413M-18mm, 991407M-12mm, 991414M-19mm
P/N 12-01976 ..... ---

8 PIECE FLARE NUT CROWFOOT WRENCH SET

• 3/8" Drive
• Fully polished drop forged alloy steel
• Mounted on a convenient storage rail 9708
Includes: 970802-3/8", 970810-5/8", 970804-7/16", 970812-11/16", 970806-1/2", 970814-3/4", 970807-9/16", 970818-7/8"
P/N 12-01968 ..... ---

7 PIECE JUMBO STRAIGHT CROWFOOT WRENCH SET

• Fully polished drop forged alloy steel
• 1/2" Drive
• Reusable blow mold storage tray 9720
Includes: 97732-1", 97734-1-1/16", 97736-1-1/8", 97738-1-3/16", 97740-1-1/4", 97760-1-3/8", 97744-1-1/2"
P/N 12-01971 ..... ---

6 PIECE JUMBO CROWFOOT WRENCH SET

• Fully polished drop forged alloy steel
• 1/2" Drive
• Reusable blow mold storage tray 9722
Includes: 97746-1-5/8", 97752-2", 97748-1-3/4", 97754-2-1/8", 97750-1-7/8", 97756-2-1/4".....P/N 12-01972 ..... ---

10 PIECE METRIC FLARE NUT CROWFOOT WRENCH SET

• Fully polished drop forged alloy steel
• 3/8" Drive
• Mounted on a convenient storage rail 9710M Includes: 971010-10mm, 971015-15mm, 971011-11mm, 971016-16mm, 971012-12mm, 971017-17mm, 971013-13mm, 971018-18mm, 971014-14mm, 971019-19mm
P/N 12-01969 ..... ---

8 PIECE JUMBO METRIC STRAIGHT CROWFOOT WRENCH SET

• Fully polished drop forged alloy steel
• Mounted on storage rail for convenience
• Reusable blow mold storage tray 9730
Includes: 97324-24mm, 97328-28mm, 97325-25mm, 97329-29mm, 97326-26mm, 97330-30mm, 97327-27mm, 97332-32mm

SUNEX PNEUMATIC TOOLS

1/4" DRIVE MINI AIR RATCHET WRENCH

SX1068 Specification	
Free Speed(RPM) @90PSI	230
Torque (ft.lbs.) @90PSI	25
Square Drive	1/4
Min. Hose Size	2/8
Recommend Air Pressure (PSI)	90
Average Air Consumption (CFM)	3
Sound Level (dBA)	87
Length (In.)	8

• Lever throttle for positive speed control
• Ball detent socket retainer
• Rear exhaust
• Also available: 1/4" head kit .....P/N 12-01932 ..... ---

3/8" DRIVE PISTOL GRIP IMPACT WRENCH

SX821A Specification	
Square Drive (In.)	3/8
Max. Torque (ft. lbs @90PSI)	75
Working Torque (ft.lbs.)	30-60
Free Speed (RPM@90PSI)	10,000
Air Inlet (NPT)	1/4
Recommended Air Pressure (PSI)	90
Average Air Consumption (CFM)	4
Sound Level (dBA)	84
Length (In.)	5

• Ring socket retainer for rapid socket changes
• Front bumper for added protection
• Built-in regulator for added protection
• Reliable dog clutch mechanism for dependable service
• Reliable dog clutch mechanism for dependable service
P/N 12-01937 ..... ---

TO

SUNEX SERVICE CART WITH LOCKING TOP & DRAWER

• This combination makes for the ultimate cart • The locking drawer and locking top are keyed the same, so the user only has one set of keys • Clip-on roller-bearing slides on drawer • Large, easy to maneuver 4" wheels: 2 locking and 2 standard, Chrome 16 gauge steel frame, Durable powder coated finish, 3" deep shelves, Available colors: red, blue, black & yellow 8013A
Specifications: Load capacity (lbs.) -350, Shipping weight (lbs.)-69.5
P/N 12-01963 ..... ---

4 PIECE 3/8 INCH DRIVE UNIVERSAL SPARK PLUG SOCKET SET

• All four sized spark plug sockets in one convenient set • Fully polished chrome vanadium alloy steel for durability • Universal joint design for easy access in confined areas • Rubber inserts hold spark plug securely during installation and removal • Includes new 9/16" size • Convenient blow mold case • Fully guaranteed. 87602
Specifications: 8844-9/16, 8844-5/8, 8844- 3/4, 8844-13/16 .....P/N 12-01966 ..... ---

SUNEX DELUXE CREEPER

• 1" Rugged steel tube construction • Oversize frame for added comfort • Tapered frame and head reast for extra clearnace in tight areas • 3-1/2" Heavy duty chrome finished casters with rubber tread • 5-Position stick shift headrest adjustment sytem • Rear drop frame design for extra leg comfort 8515
Specifications: Length (In.)-45.5, Width (In.)-19, Height (Headrest Down)-5, Height (Headrest Up)-9.5, Shipping Weight (lbs)-29.0, Bed Size-30.625 x 16.5 x 2.5.....P/N 12-01964 ..... ---

SUNEX SOCKET DRIVES

Radius corner design causes the socket to grab the sturdy wall, or flat, of the fastener instead of grabbing the corners, resulting in less corner wear on the fastener. CR-MO alloy steel for long life.

Drive	Socket	Description	Part No.	Price
3/4"	41mm	Sunex 441MD	12-03448	---
3/4"	46mm	Sunex 446MD	12-03450	---

SUNEX REDUCING SOCKETS

CR-MO alloy steel for long life. Steel ball retainer on male end. Will meet a variety of needs. Lifetime warranty. Fully guaranteed.
2302 1/2"(f)x3/4"(m).....12-03452 ..... ---

SX-230A DIE GRINDER & ACCESSORIES

1/4" air die grinder. Built-in regulator. Exhaust directed away. Lever throttle for positive lever control.
Die Grinder .....P/N 12-01124 ..... ---

X-227B HEAVY DUTY METAL SHEARS

Muffled handle exhaust. Heavy-duty, ball and needle construction.
Pneumatic.....P/N 12-01122 ..... ---

5 TON CAPACITY 8-WAY, 2-3 JAW REVERSIBLE PULLER

• Can be assembled to make a two or three jaw puller when additional stability is needed • Reversible jaw design for added versatility and a broader range of pulling capability • Ideal for pulling gears, bearings, pulleys and other press fit parts 3908
Specifications: Maximum reach (in.)-5.5, Maximum spread (in.) -7
P/N 12-01957 ..... ---

3/16 INCH HEAVY DUTY RIVET GUN

• Sets all conventional, standard blind rivets and all structural blind rivets, mono bolts and t-rivets up to and including 3/16" diameter in all materials • Comes with nose pieces in 3/32", 1/8", 5/32", and 3/16" sizes • Features a pulling (traction) power of 1,983 lbF @90PSI • Forged aluminum handle • Nose pieces stored conveniently underneath base of gun • Minimum air pressure required is 90 PSI, 7 Bars • Includes blow molded storage case SX0918T
Specifications: Air Pressure (PSI) -75-90, Stroke Length (In.) -11/16, Height (In.) -12-3/8, Weight (Lbs.) -3.70, Min. Hose Size (I.D.) -3/8, Air Inlet Size (NPT) -1/4. • Tips available on special request.
P/N 12-01933 ..... ---

SUNEX 3 PIECE PROFESSIONAL ANGLE BLADE PRY BAR SET

Includes angle blade pry bars in lengths of 12", 17" and 25" and boast a handle specifically designed to ensure a "no slip" grip allowing the user maximum leverage and control. Each pry bar also has hardened, tempered blades for unmatched strength and durability.
Specifications • Weight: 4.1lbs • Length: 25.8" • Height: 1.9"
P/N 12-02451 ..... ---

SUNEX 3PC FLEXIBLE PICKUP TOOL

Helps to get you into those tight spots and help you with removal, fastening, and pick up of fasteners and parts. **Features**: Includes: 1/4" Magnetic Bit Driver, 1/4" Socket Driver, and a 2 in 1 Magnetic Claw Pick-Up Tool. Flexible ends bend to desired angles. Extra long 24" length shafts. 1/4" Bit Socket accepts all standard bits. 1/4" Socket Driver can be used with all 1/4" sockets and bit sockets. .....P/N 12-02450 ..... ---

SUNEX 1/4'' 0.5HP ANGLED DIE GRINDER

Sunex HD® 1/4" 0.5hp line of Die Grinders provides all of the durability, features, and power required for today's demanding applications. With the powerful 0.5hp motor, you are given the torque to get through even the toughest material and twice the horse power of the average die grinder. The speed control dial and soft composite handles enhances your ability to complete any job quickly and efficiently. With these top of the line products, you will find all of the features and speed you need to get the job done right the first time. 2 Year Limited Warranty. Weight lbs.(kg): 1.5 (0.7) .....P/N 12-03192 ..... ---

SUNEX 1/4'' 1.0HP SUPER DUTY DIE GRINDER

The new Sunex HD® 1/4" 1.0hp Super Duty Die Grinder has all the durability, features, and power mechanics want in an industrial die grinder. With the powerful 1.0hp motor, you're provided with the torque needed to get through the toughest of materials. The no slip Erickson Industrial Collet, allows you to work efficiently, as it holds your accessories securely without slippage. You would normally pay twice as much for a tool of this caliber. 2 Year Limited Warranty. Weight lbs.(kg): 1.7 (0.77).
P/N 12-03193 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

3-IN-1 SHEET METAL ROLLERS

These Sheet Metal Roller Presses have 6 adjustable hardened fingers, spring loaded sheet hold-down, heavy cast iron frame, grooves for wire rolling, 1 1/4" slip rolls, adjustable back gauge. Works up to 20 gauge sheet metal. Stand not included but available for the 30" Roller only.

Model	Size	Part No.	Price
SP3-1-3	30"	12-03467	---
SP3-1-40	40"	12-03469	---
SP3-1-52	52"	12-03470	---
Roller Stand for 30" Roller.....P/N 12-03468.....			---

POWER BEAD ROLLER

Heavy Duty Power Bead Roller, works off 110v gear drive motor and has a 43" throat depth with an adjustable fence and includes floor stand, die rack, 2 step dies, 2 bead dies and a 45 degree tipping die.

P/N 12-03472..... ---

HAND SHEARS

Throatless design, adjustable work hold down, arched top blade allows for effortless cutting throughout the stroke and indexable bottom blade. Up to 3/16" steel, up to 3/8" round bar.

Description	Part No.	Price
Hand Shear 5" Model SPHS5	12-03459	---
Hand Shear 8" Model SPHS8	12-03460	---
Hand Shear 10" Model SPHS10	12-03457	---
Hand Shear 12" Model SPHS12	12-03458	---

ROTARY SHEAR

Shape cutter, easily cut any shape up to 1/8" thick, forged steel frame, ratcheting head, adjustable cutter, adjustable work stop.

P/N 12-03463 ..... ---

3-IN-1 SHEET METAL ROLLER

This Sheet Metal Roller Press is 12" length with 5 adjustable hardened fingers, material hold-down, back gauge, 1-1/4" slip rolls with 1/16", 1/8" and 3/16" grooves for wire forming. Works up to 20 gauge sheet metal.

P/N 12-03466 ..... ---

HAND SHEAR MULTI PURPOSE CUTTER

5" Top length, throatless design, adjustable work hold down, geared reduction handle makes cutting easy.

P/N 12-03464..... ---

MANUAL SHEET METAL CORNER NOTCHER

Heavy cast iron frame, adjustable work stops, 4 x 4 blades adjustable blade gap, high chrome blades, adjustable gibs for long life.

P/N 12-03461 ..... ---

SQUARE NOTCHER

Foot operated, 3" x 3" blades, adjustable work stops, adjustable blade gap. 16 Gauge.

P/N 12-03465 ..... ---

52 INCH FOOT SHEAR

52" Blade length, cast iron frame, front arm supports, high carbon blade, adjustable blade gap, front squaring arm with scale, back gauge with inch and metric scale.

P/N 12-03462 ..... ---

TO

ENGLISH WHEEL THROAT DEPTH

Heavy Duty Construction, Quick Release Lower Anvil and Includes Floor Stand. * Part Number 12-03474 - Can Be Used For Rolling, Beading and Forming Foot Operated Height Adjustment.

Model	Description	Top Wheel	Ball Bearings	Includes	Part No.	Price
WFEW-2	English Wheel 28" Throat Depth With Stand	8"	Precision	5 Pieces Radius Anvils And One Flat Anvil	12-03473	---
WFEW45T	English Wheel 43" Throat Depth*	6"	Super Wide 3" Anvils Precision	4 Top Wheels And 10 Lower Anvils	12-03474	---

METAL WORKING TOOLS

PLANISHING HAMMER

26" Throat depth, quick adjust anvil height. Includes floor stand with handy retractable wheels, industrial hammer at 4600 beats per minute, includes in line oiler, pressure regulator and foot pedal. Up to 1/16" steel.
P/N 12-03475 ..... ---

PLANISHING HAMMER

Uses shop air 50-100 psi 4 cfm, 19-5/8" throat depth, features quick adjust anvil height/pressure, includes floor stand, 3 anvil, air motor, foot pedal. 16 Gauge Mild Steel.
P/N 12-03476..... ---

SHRINKER / STRETCHER MACHINE

Ideal for creating repair panels for wheel openings, winshields, etc., Produce curves as tight as 3" radius, drilled bottom for bench mounting or clamp in a bench vise. Cast iron frame. 18 Gauge mild steel, 16 gauge aluminum .....P/N 12-03477 ..... ---

DEEP THROAT SHRINKER STRETCHERS

8" Throat Depth. 18 Gauge Mild Steel, 16 Gauge Aluminum .....P/N 12-03478 ..... ---
Adjustable Stand.....P/N 12-03479 ..... ---

WOODWARD-FAB BOSS16 BOX & PAN BRAKE

Maximum box depth 4", removable fingers - 2", 3", 4", bend angle stop 0 to 130 degrees, floor stand included, counterweight included, upper beam is adjustable for radius bending. 16 Gauge Mild Steel, 20 Gauge Stainless Steel .....P/N 12-03480 ..... ---

12 INCH 20 GA BOX & PAN BRAKE

12" Length, 5 hardened, removable fingers, cam lock handle. 20 Gauge.....P/N 12-03481 ..... ---

24 INCH 20 GA BOX AND PAN BRAKE

Solid heavy duty construction, reinforced frame, hardened and ground fingers, finger to bend leaf gap can be adjusted, maximum box depth, 5 removable fingers. 20 Gauge.....P/N 12-03482 ..... ---

EURO BRAKE

50" Box and Pan Brake, 14 Gauge Capacity Mild Steel, Air Cylinder Assist "No Need for Weights", Adjustable Hold Down Force, Adjustable Bend Gap, Foot Operated Locking Hold Down, Hardened and Ground Fingers plus removable lower fingers for custom bends. 14 Gauge .....P/N 12-03483 ..... ---

MODEL S TURBO BURR

55,000 rpm, 1/4" air hose connection, 60 to 120 psi, 5 to 11 cfm, feed up to 2" per second. Ideal for deburring and edge finishing, puts a safety edge on sheet metal in one pass. .015" Minimum material thickness.
P/N 12-03484 ..... ---

WELD SHAVER

Removes both flat "butt" welds and inside 90 degree corner "fillet" welds. Uses carbide inserts , milling type cutter head. Remove weld beads up to 1/2".
P/N 12-03485 ..... ---

SLIP ROLL

12" Length, 1" diameter hardened rolls, 1/16", 1/8" 3/16" wire grooves. 20 Gauge.
P/N 12-03486 ..... ---

24 INCH 20 GAUGE SLIP ROLL

24" Length, 1-1/2" diameter rolls, solid precision ground rollers, heavy cast iron frame, quick release top roll, hardened steel gears, wire grooves for wire rolling. 20 Gauge.
P/N 12-03487 ..... ---

WOODWARD-FAB ELITE SHEET METAL / WIRE SLIP ROLLER 24 INCH

24" Length, 2-3/8" diameter drive rolls, 2-1/2" rear adjustable roll. Uses single front mounted hand wheel for adjusting the rear roll. Uses single hand wheel to adjust the bottom roll for material thickness, roll tapers up to 15 degrees, fully enclosed gear box, cast iron end plates, wire grooves for wire rolling. Floor stand included.
16 Gauge. .....P/N 12-03488 ..... ---

SHOP PRESSES

Hydraulic hand pump, press plates included 7" stroke, easy read gauge. 10 Ton - 14 1/2" inside clearance.

Model	Description	Stroke	Inside Clearance	Part No.	Price
PR102	10 Ton Shop Press	7"	10 Ton - 14 1/2"	12-03492	---
PR103	12 Ton Shop Press	7"	12 Ton - 18 1/2"	12-03493	---
PR104	20 Ton Shop Press	7 1/2"	20 Ton - 19 1/2"	12-03494	---

2 INCH PIPE NOTCHER

Use with any hand held drill motor or drill press, create any angle saddle notch on pipe for weld fit up, uses standard hole saw blades up to 2 1/2", compound angle adjustment. Holds up to 2" pipe, uses up to 2 1/2" hole saws .....P/N 12-03495 ..... ---

PIPE / TUBE NOTCHER

Solid steel construction, use with any 1/2" hand drill, accepts standard hole saw cutters, hardened and ground spindle, superior needle bearing support, adjustable angle to 50 degrees mount to bench top or clamp in vise. 3/4 - 3" O.D. Pipe/tube.
P/N 12-03496 ..... ---

TRACE-A-PUNCH NIBBLER

1 1/2 Hp, 110 V, 6 3/4" Throat Depth, Cuts Any Shape Metal Or Plastic. 1/8" Maximum Thickness.
P/N 12-03497 ..... ---

TRACE-A-PUNCH NIBBLER

3 HP, 220/440 V, 3 phase, 16" throat depth, cuts any shape metal or plastic. 3/16" Maximum thickness
P/N 12-03498 ..... ---

TO

GARLAND NON-MARRING MALLETS AND HAMMERS

Since 1866, Garland Manufacturing has been supplying America with top-quality products made from the finest water buffalo rawhide. Today, they're the leader in the manufacture of soft-faced mallets and hammers of unsurpassed quality. All Garland products are manufactured in the U.S.A. to ISO 9002 international quality standards. They combine superior craftmanship with the best materials and then field-test their products extensively on a range of surface finishes to meet the requirements of the industries in which they're used. Industries ranging from foundries and electrical manufacturing to jewelry and woodworking. -faced hammers are preferred by both craftsmen and production workers.

RAWHIDE AND WEIGHTED RAWHIDE MALLETS

Garland's all-rawhide mallets are made of tough, long-wearing, water buffalo rawhide. They're ideal for use on broad-faced striking surfaces in a broad range of applications.

RAWHIDE MALLETS

Size	Face Dia. (Inches)	Head Length (Inches)	Weight (oz.)	Part No.	Price
0	1"	2"	2	12-00749	---
2	1-1/2"	3"	6	12-00750	---
4	2"	3-1/2"	11	12-00751	---
6	2-3/4"	4-3/4"	24	12-00752	---

WEIGHTED RAWHIDE MALLETS

Size	Face Dia. (Inches)	Head Length (Inches)	Weight (oz.)	Part No.	Price
7	1-1/4"	2-1/2"	8	12-00753	---
10	2"	3-1/2"	20	12-00754	---

NYLON MALLET

Nylon mallet works great for shaping metal.
Specifications: • Head Length: 3 1/2" • Face Diameter: 1 1/2" • Hammer Length: 10" .....P/N 12-02895 ..... ---

SPLIT-HEAD HAMMER - NO FACE

The split-head hammer does the work of six different hammers because the face can be easily changed. Available in two sizes. Many materials & surfaces. Die moving or positioning. Assembly. Electric Motor Repair. Propeller Repair. Foundry.

Face Dia.	Head Length	Weight	Part No.	Price
1-3/4"	3-1/4"	2.5 lbs	12-00965	---
2-3/4"	4"	5.25 lbs	12-00966	---

VAN SANT MULTITOOL ATTACHMENTS

The Multitool belt and disc grinding attachments for your bench grinder are must-have tools for any fabricator! These versatile tools remove material up to 5 times faster than with the equivalent grit grinding wheel. Belts change in seconds from grinding, to sand deburr or polish. Quality construction is backed by a 1-year warranty. The attachments are all available with motor options to suit the hobbyist or the professional. Includes 1 belt and 1 disc. Fits 1/2HP or more grinders with 1/2" or 5/8" shaft. Visit our website for a Compatability Template in PDF

MT362 MULTITOOL GRINDER ATTACHMENT

(2"X36" Belt and one disc)
P/N 12-02064 ..... ---

M482 MULTITOOL GRINDER ATTACHMENT

(2"X48" Belt and one disc)
P/N 12-02068 ..... ---

M462 MULTITOOL GRINDER ATTACHMENT

(4"X48" Belt and one disc)
P/N 12-02070 ..... ---

DISC GRINDER MITER ATTACHMENT

The Multitool disc grinding attachment for your bench grinder are must-have tools for any fabricator! These versatile tools remove material up to 5 times faster than with the equivalent grit grinding wheel .....P/N 12-02071 ..... ---

VAN SANT - VISE AND GRINDER MOUNT WITH WALL RECEIVER

Completely free up work surfaces and eliminate floor space wasted on stands with the wall mount tool receiver (sold separately). Featuring a 4 x 8 x 1/4 inch thick mounting surface with 3 mounting holes, it can be mounted to any vertical surface in the shop. In addition to a 5/8 inch detent pin, the mount also features two sets of jam bolts to produce a rock-solid fit for the receiver tube.
The included tool mount is constructed from 2 x 2 3/16 inch wall square tubing and a 3/8 inch thick steel plate measuring 8.5 x 9.5 inches. The mounting plate features both 90 and 120 degree slots to accommodate a wide variety of tools, or you can drill your own holes as needed.
P/N 12-05414 ..... ---

VAN SANT VISE AND GRINDER MOUNT WITH TABLE RECEIVER

The included tool mount is constructed from 2x2 3/16 wall square tubing and a 3/8 inch thick steel plate measuring 8.5 x 9.5 inches. The mounting plate features both 90 and 120 degree slots to accommodate a wide variety of tools, or you can drill your own holes as needed.
Specifications: • Weight (pounds): 18 • Dimensions (LxWxH): 13" x 9.5" x 2.5".....P/N 12-05413 ..... ---

VAN SANT WALL MOUNT RECEIVER

Completely free up work surfaces and eliminate floor space wasted on stands with the wall mount tool receiver. Featuring a 4 x 8 x 1/4" thick mounting surface with 3 mounting holes, it can be mounted to any vertical surface in the shop. In addition to a 5/8" detent pin, the mount also features two sets of jam bolts to produce a rock-solid fit for the receiver tube.
P/N 12-05412 ..... ---

VAN SANT TABLE MOUNT RECEIVER

Keep your work surface clear and eliminate the need for dedicated machine stands with this handy receiver mount. Featuring a 6 inch square mounting surface with 5/8 diameter holes on 4 in centers, it can be easily attached to your own workbench, Buildpro, or Certiflat welding tables. The mount also features two sets of jam bolts to produce a rock-solid fit.The receiver is designed to accept 2 x 3/16 inch wall square tubing.....P/N 12-05410 ..... ---

VAN SANT GRINDER MOUNT FOR RECEIVER

Vans Sant Grinder Mount Plate can be used with Receiver Mount (sold separately) to keep your bench grinder, vise, or any other tool close at hand, but not take up valuable bench space. Use the existing 1/2 inch wide slots in the 8.5 x 9.5 inch plate, or drill your own mounting holes. Built from 2 inch x 3/16 wall square tube and 3/8 inch plate and finished in black zinc.
P/N 12-05411 ..... ---

TO

BAILEIGH METAL TOOLS

BAILEIGH MANUAL BENDER FB-4

Baileigh's FB-4 form bender is a useful tool for press bending ornamental iron, mild steel, aluminum and other metals. This flat bar bender is a manual press brake and can create 90 degree bends by simply turning a hand lever until the desired angle is accomplished.

This metal bender is perfect for hobbyists, ornamental iron artists, and much more. Of course this is not a production bender, but is perfect for small runs or those one off applications. • Capacity: 3/16" • Shipping Dimensions (L/W/H): 17"/7"/8" • Shipping Weight: 19 lbs.

P/N 13-08987 ..... ---

BAILEIGH MANUAL ROLL BENDER R-M3

Baileigh The R-M3 metal ring roller is perfect for any typical sheet metal shop for bending small rod up to ¼". Metal artists, technical schools, and home shops can find hundreds of uses to keep this well built angle roll in use.

This single pinch metal ring roller can be bench or pedestal mounted. It has fine adjustment for the top roll and to power this machine there is a manual hand crank.

• Capacity Solid Round: .25" • Capacity Flat Bar: 1" (.1875 • Minimum Diameter: 3" • Handle Length: 13.5" • Power Requirement: Manual • Shipping Dimensions (L/W/H): 15" / 7" / 8" • Shipping Weight: 18 lbs

P/N 13-08975 ..... ---

BAILEIGH MANUAL ROLL BENDER R-M7

Baileigh Industrial's Roll Bender R-M7's small size makes it highly portable and versatile. Although not for rolling complete circles, it makes quick work of large radius bends. Many different tooling options are available as well.

Capacity / Size / Diameter: • Pipe - 1.5" / 20" dia • Round Tube - 1.25"(.078") / 31.5" dia • Square Tube - 2" / 70" dia • Rectangle Tube - 1x2" / 30" dia • Flat bar - Easy Way / 10" dia

Specifications: • Roll adjustment: Manual • Pinch: Single • Shaft Center Distance (lower rolls): Adjustable • Driven Rolls: 1 • Speeds: N/A • Motor: N/A • Power Requirements: Manual •Shipping Weight: 150 lbs.

P/N 13-08976 ..... ---

BAILEIGH MANUAL ROLL BENDER R-M10

Baileigh's R-M10 tube roller has a powerful manual drive system that has a maximum capacity of 1-1/4" (.078" wall) round tubing capacity (mild steel). It comes standard with segment rolls that allows for many different types of flat bar, some angle iron and some square to be rolled. This roll bender has optional rolls for round tube and pipe, as well as other profiles.

This tube roller is typically in stock for fast deliveries. For further information on the R-M10 roll bender, please contact your Baileigh representative.

Capacity / Size / Diameter: • Pipe - 1 " (Sch.40) / 28" dia • Round Tube - 1.25"(.078") / 31.5" dia • Square Tube - 1.2" (.078") / 35" dia • Angle Iron - 1.25" (.157") / 30" dia • Solid Square - .75" / 20" dia • Solid Round - .875" / 20" dia • Flat Bar Easy Way - 2" / 15.75" dia • Flat Bar Hard Way - .75" / 6.5" dia

All Specs based on 60,000 PSI (42 kg/mm2) Tensile Strength - Mild Steel. Specs are to be used as a base line for purchase purposes only. Baileigh Industrial cannot control Variations in Material.

Technical Specifications and Standard Equipment: • Two rolls are manually powered • Special cast frame • Shafts are hardened with special steel material • Rolls are special steel material hardened and ground • Gears milled with full material • Standard rolls, guide rollers, manual working • Users manual.....P/N 13-08977 ..... ---

BAILEIGH MANUAL TUBE BENDER RDB-10

The RDB-10 manual hand tube bender is the perfect bending machine for bending air lines, brake lines, fuel lines, and general hydraulic lines. Thus, if you're into building or repairing race cars, auto and airplane repair or restoration, an automated machinery builder, or much more, the RDB-10 manual bender will save you time and money from the moment you use it.

This manual tube bender comes standard with 10 different size combinations from 1/4" to 5/8" OD in either 3 or 5 times the diameter radiuses. This manual tube bender works great with mild steel, certain coppers and aluminums, as well as stainless steel. It comes standard with a heavy pedestal, tooling rack, and bending machine.

The RDB-10 hand bender is easy to use and can bend tubing up to 180 degrees. Because of the design, this bending machine can do serpentine bends with ease at very tight radiuses depending on the OD, material and wall thickness. .....P/N 13-08971 ..... ---

BAILEIGH MANUAL TUBE BENDER RDB-25

The RDB-25 manual tube bender is the perfect machine for hose hobbyists that need to bend tube on a budget. It is made from a sturdy cast iron frame and can be bench or pedestal mounted with the included pedestal. The RDB-25 from Baileigh Industrial was designed to bend the most common sizes of tubing on safe centerline radii to ensure great looking bends. This manual tubing bender comes standard with the following round tube die sets: • 3/8" OD x 2" CLR • 1/2" OD x 2.25" CLR • 9/16" OD x 2.5" CLR • 5/8" OD x 3" CLR • 3/4" OD x 3.5" CLR • 7/8" OD x 4.25" CLR • 3/4" Square x 3.75" CLR • 1" Square x 4.25" CLR

Also included is a very nice carrying case, which allows the bender to be stored when not in use. Contact a Baileigh Industrial representative for more information on the RDB-25 manual tube bender.

P/N 13-08972 ..... ---

BAILEIGH MANUAL TUBE BENDER RDB-050

The RDB-050 manual tube bender was designed as an affordable bender that has enough capacity for just about any chassis fabrication shop. Can bend up to 2-1/2" OD mild steel with a wall thickness of .120" and 2" OD Chromalloy with a wall thickness of .120". The most unique feature of the RDB-050 is that it has three selectable bending speeds. The proper speed for each application depends on the material type, OD and wall thickness. The RDB-050 manual tube bender has no dis-assembly or assembly needed to produce a bend. Simply walk up to the RDB-050 and put your tubing into the hook arm insert and begin bending. When the bend is complete, return the machine to the home position and pull your bend out, or position it for the next bend. The RDB-050 tube bender can bend up to 200 degrees and an anti spring back mechanism holds each bend in place as the operator ratchets forward. **Tooling List - Sold separately - Call 1-877-477-7823 for pricing** .....P/N 13-08973 ..... ---

BAILEIGH MANUAL TUBE BENDER RDB-100

This bending machine can be fitted with hundreds of round and square tubing die sets as well as round pipe dies sets with a maximum center line radius up to 7". This manual tube bender uses a large diameter indexing plate that allows the fabricator to bend up to 206 degrees (180 degrees plus spring back) in one shot without having to re-index and re-pin common on most other manual pipe benders on the market. Each pull of the handle bends the material approximately 8 degrees. When requirements are for lighter gauge materials this tube bending machines indexing unit can be shut off and the handle can be put into a manual override housing that allows the operator to simply walk around the manual bender and bend without the power of the indexing unit. Includes the stand, degree dial, and handle .....P/N 13-08974 ..... ---

BAILEIGH ENGLISH WHEEL EW-28

This quality English wheel is a heavily built floor stand unit that can handle smoothing compound curves into mild steel and aluminum sheet metal for restoration or bodywork on autos, planes, cycles and much more. This machine has an 18-gauge mild steel capacity and has an ample 28" throat depth. The EW-28 English wheel comes standard with an 8" X 2" upper roll and includes six lower anvil rolls with varying crowns. The radius included for the six lower rolls are 2", 3", 4", 6", 8", and 12". Like other Baileigh English wheels, the machine comes intact with only minor assembly required (no welding required). The frame members are constructed of heavy walled square tubing that is electro welded to a truss system offering little flex at maximum capacity. **Specifications**: • Capacity (Mild Steel): 18 ga • Throat Depth: 28" • Shipping Dimensions(L/W/H): 36"/34"/15" • Shipping Weight: 191 lbs.....P/N 13-09001 ..... ---

BAILEIGH ENGLISH WHEEL MANUALLY OPERATED EW-40

Baileigh's quality English Wheels have a generous 40" throat depth, and ship complete with five bottom anvils and one 7" upper wheel. It has a rugged electro welded frame and stand for ease of use and years of quality shaping and forming metal. The EW-40 English wheel has an 18 gauge mild steel capacity and a 13 gauge aluminum capacity. Like all Baileigh metal forming machines the EW-40 is a quality machine for a reasonable price. This machine is in stock for quick deliveries. **Specifications**: • Capacity (Mild Steel): 18 ga • Throat Depth: 40" • Shipping Dimensions(L/W/H): 72"/36"/15" • Shipping Weight: 388 lbs

P/N 13-09003 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BAILEIGH MANUAL MULTI-PURPOSE BENDER MCB-650

Baileigh's MCB-650 flat bar benders are ruggedly built to bend up to 5/16" X 1-1/4" mild steel or ¼" X 2" mild steel as the maximum capacity. This is a fantastic ornamental bender to have for railings, fences, gates and for hundreds of additional applications. This flat bar bender comes standard with 7 die sets from 1" up to 3" for flat metal. Other solid applications such as wire, rod, and bar can be bent as well up to 200 degrees. Specifications: • Bend Capacity: 2" x .236" • Angle Capacity: 0 - 200 deg • Shipping Dimensions (L/W/H): 35"/10.5"/10.5" • Shipping Weight: 53 lbs .....P/N 13-08988 ..... ---

BAILEIGH MANUAL HOLE SAW NOTCHER TN-200H

This coping machine can be vertically mounted in a drill press, or for larger pieces it can be horizontally mounted on a weld bench and powered by a portable drill.
This hole saw tube notcher is made of thick 3/8 inch aluminum with a heavy bronze bushing that is replaceable if ever need be. The spindle is made of a ½" hardened shaft for longevity and less vibration. This coping machine can notch at angles up to 45 degrees in less than 30 seconds and has a capacity of up to 2" round tube.
Specifications: • Notch Capacity (OD): 2" • Spindle Size: 1/2" • Spindle Adapter: 1/2" – 5/8" • Shipping Size (L/W/H): 12" / 7" / 5" • Shipping Weight: 10 lbs.....P/N 13-08978 ..... ---

BAILEIGH MANUAL HOLE SAW NOTCHER TN-250

This is the most revolutionary hole saw pipe notcher on the market and is perfect for chassis, roll cages, and much more. This is the only hole saw tubing notcher that is always centered left to right and up and down. This coping machine is constructed of heavy steel plate to reduce vibration, uses a 1-1/4" Thompson® shaft that rides in a sealed needle bearing for longevity of the machine and hole saw. The TN-250 tube notchers vise has a powerful screw with a built in hand wheel that opens and closes the unique six radial clamping jaws. Can notch up to 2-1/2" OD and allows for steep angles as the hole saw can pivot up to 230 degrees making it the most versatile notching machine on the market. This tubing notcher can easily offset in seconds for off center notches and does not require crazy shims or spacers common on inferior models.....P/N 13-08981 ..... ---

BAILEIGH MANUAL HOLE SAW NOTCHER TN-300

This tubing notcher can notch from 1/2" to 3" tube and 1/2" to 2-1/2" Schedule 40 Pipe in materials such as aluminum, mild steel, chromoly, and stainless steel. The tube notchers vise has a quick release so different notch angles can be set up in a second or two and locked in with a solid taper lock. Can notch up to 60 degrees as standard, but with extended hole saws and the right size OD, notches up to 75 degrees can be attained. The vise is a self centering that is on an acme screw for quick tightening and releasing of the material. An offset adjustment is standard for those jobs where more strength is needed like on some hand railing or chassis frame applications. The drive carriage on the TN-300 pipe notcher houses an industrial grade motor tied to a direct drive gear reducer that turns the hole saw with ease, even at full capacity. This tube notchers carriage rides on a solid V-block roller assembly that is coupled to a large drive wheel for pushing the hole saw into the material with limited vibration and ease. This simple unique design on this tube notcher makes notching tube and pipe a breeze.
P/N 13-08983 ..... ---

BAILEIGH MSS-16 MANUAL 16GA SHRINKER STRETCHER

Baileigh's MSS-16 sheet metal shrinker stretcher has a heavy cast iron frame with a deep 8" throat. It comes standard with two sets of jaws, one for shrinking and one for stretching. This is a manually operated machine that has a heavy engagement lever that allows perfect control of the function at hand. This sheet metal shrinker stretcher has a mild steel capacity of 16 gauge and an aluminum capacity of 14 gauge. No other sheet metal stretcher shrinker on the market has such a generous throat depth with a heavy maximum capacity for such a good price.
Specifications: • Capacity Mild Steel: 16 ga • Capacity Aluminum: 14 ga • Throat Depth: 8"
P/N 13-08985 ..... ---

BAILEIGH MSS-16F SHRINKER STRETCHER

This model is a heavy duty foot operated shrinker stretcher for shrinking or stretching mild steel sheet metal down to 16-gauge (14-gauge aluminum) in thickness. This is the perfect machine for working metal for auto, cycle or airplane body work. This machine is ruggedly built and can shrink or stretch metal with ease at full capacity.
Our MSS-16F metal shrinker stretcher has a rugged floor stand with foot pedal control to actuate the jaws allowing the hands to be free to properly work the material. An ample 6" throat depth allows for hundreds of applications to be worked on compared to smaller throat depth models. The rugged base has wheels allowing for mobility in any cramped shop environment.
This metal stretcher shrinker has quick jaw change over features built in so changing from shrinking metal to stretching metal takes only a couple seconds. This machine comes standard with jaws to stretch metal and shrink metal (note: optional aluminum jaws are available).
Specifications: • Capacity Mild Steel: 16 ga • Throat Depth: 6" • Weight: 78 lbs.....P/N 13-08986 ..... ---

BAILEIGH ONE PHASE POWER HAMMER

MH-19 power hammer is the most revolutionary metal forming machine on the market. In summary you can achieve stretching, shrinking, planishing, and doming with critical adjustments on the fly while in operation. This is the ultimate metal shaping and forming power hammer on the market. No other machine is as versatile as the MH-19. The MH-19 includes the following tooling to get you up and running quickly at no extra charge: (1) set of thumbnail shrink dies, (1) flat top die, and (1) Lower planishing die.
Specifications: • Capacity Mid Steel: 16 ga • Capacity Aluminum: 12 ga • Throat Depth: 19" • Length of Stroke: .177 - .550 (adjustable) • Tooling Height Adjustment: 2" • Speed (variable): 0 - 1500 beats/minute • Power Requirement: 220v / 1 phase • Shipping Dimensions: (L/W/H)60"/60"/84" • Shipping Weight: 1600 lbs .....P/N 12-02645 ..... ---

BAILEIGH MSS-18 MANUAL 18GA SHRINKER STRETCHER

Baileigh's MSS-18 sheet metal shrinker stretcher has one complete shrinker and one complete stretcher both in their own cast iron housings. The heavy casting assures a quality function at full capacity, which is 18-gauge in mild steel and 16-gauge in aluminum. Both units are foot operated and come with a heavy steel stand as standard.
Specifications: • Capacity Mild Steel: 18 ga • Capacity Aluminum: 16 ga • Minimum Forming Diameter: 4.5" • Stand: Included .....P/N 13-08984 ..... ---

TO

DE-ICING CARTS

Aircraft De-icing Gasoline Engine Powered Carts are designed for outdoor de-icing operations. These carts use either a 5.0 or a 5.5 hp air-cooled gasoline engine, providing adjustable fluid flow rates and pressures of up to 6.0 gpm/150 psi and 10.0 gpm/300 psi respectively -- sufficient to de-ice all general aviation, corporate & charter aircraft. The standard carts range in capacity from 25 to 110 gallons. Each is equipped with an electric immersion heater to heat the de-icing fluid to a maximum of 160° F to help melt frost, snow & ice from your aircraft's surfaces. ALI carts include Honda 5.5 engine, 24" tow bar with pintel ring, high-pressure hose, adjustable pressure valve, pressure gauge, pistol grip handgun, and adjustable brass nozzle. Electric models come with 12v Self Containment kit.

Gas powered engines		
Description	**Part No.**	**Price**
40 Gallon 5.5 Hp gas Engine with 2500 watt heater.	12-02083	---
60 Gallon 5.5 HP gas engine with 2500 watt heater.	12-02084	---
Electric powered engine		
Description	**Part No.**	**Price**
25 Gallon 12 volt Electric Cart.	12-02085	---
40 Gallon 12 volt Electric Cart.	12-02086	---
60 Gallon 12 volt Electric Cart.	12-05533	---

NICHOLSON HACKSAW BLADES

Nicholson Bi-Metaloy hacksaw blades last twice as long as high-speed steel and 10 times longer than carbon steel. Can operate 20%-50% faster. Practically unbreakable.

GENERAL RECOMMENDATIONS FOR BLADE SELECTION

14 TOOTH – For cutting heavy cross section and for soft materials where maximum chip clearance is needed.....P/N 12-19514 ..... ---

18 TOOTH – For general shop use, where blade is used on several jobs. .....P/N 12-19518 ..... ---

24 TOOTH – For cross sections of 1/16" to 1/4", such as pipe, angles, small drill rod. .....P/N 12-19524 ..... ---

32 TOOTH – For cutting stock up to 1/16" thick, such as 4130 tubing, sheet metal, BX. .....P/N 12-19532 ..... ---

NYLON FLANGES IN BATTERY BOX MODIFICATION KIT

Features: • Less expensive to modify the existing box than to replace it • Mod and Positive and Negative Cables are less costly than new braided straps • Compatible with our famous "Low Loss" Cable Kits • Nylon inserts guard against battery grounding or unwanted mishaps • Add positive and negative copper cables for additional charge

Benefits: • Improve Starting Performance • Easier Removal & Installation of Battery • May prolong life of battery and starter • Less expensive to modify existing box than to replace • Compatible with our famous "Low Loss" Cable Kits! • Eliminate extra connection on outside of the battery box • Do away with the troublesome braided negative strap.

Experimental.....P/N 11-02892 ..... ---
STC'd/PMA'd .....P/N 11-02893 ..... ---

T BAR TOOL

Gone will be the loathsome task of removing inspection panels, fuel cell panels, wing root fairings to name a few! Enter T-BAR! By design, the tool is anchored to an existing nutplate, then with leverage is able apply enough downward force to keep the hex bit firmly gripping the screw head, allowing the mech to back it out with confidence and ease...Your welcome!!

P/N 12-06475 ..... ---

THARPE LEVER

It is a scaled down Johnson bar that fits in an AOG bag (and your pocket!). Perfect for cramped spaces! 1/4" square drive with a socket for a 1/4" bit. Each lever now ships with a removable rubber screw and bit holder so you don't have a pocket full of FOD. P/N 12-06467 ..... ---

CANNON PLUG STRAP WRENCH

Get in and get out without causing yourself more work! This 1/4" drive cannon plug strap wrench is useful when you need to remove a cannon plug or fitting in a tight spot. Break B-nut torque with a wrench and quickly run it on or off with this tool. Each tool ships with 12" of skydrol resistant nylon strap.

P/N 12-06469 ..... ---

AIRCRAFT DEICING STORAGE TANK

Heated Insulated Storage Tanks are appropriate for indoor use only to store your de-icing fluid with a heated insulated wrap preset to 140°F. These storage tanks use an electric pump to transfer the heated fluid from the storage tank right to your Aircraft Deicing cart at a rate of up to 12 GPM. All storage tanks are supplied complete including a heavy duty polyethylene tank, 3000w 240v immersion heater, heavy vinyl insulated wrap, transfer pump, temperature gauge and a high-pressure hose with a pistol-grip nozzle. **Tank**: • Capacity: 100 Gallons • Dimensions: 28in Diameter x 46in Height • Material: Polyethylene .....P/N 12-05532 ..... ---

ATS HOSE FITTING ASSEMBLY TOOLS

Individual sizes: #3, #4, #5, #6, #8, #10, & #12. For use in assembling stratoflex series 300, aeroquip 303, 491 hose fittings. Chrome Plated.

Size	Part Number	Price
#3	12-05273	---
#4	12-05274	---
#5	12-05275	---
#6	05-26371	---
#8	12-05498	---
#10	12-05271	---
#12	12-05272	---

BATTERY TERMINAL TOOL

The Right Tool for the Job • Prevents damage to battery posts • Steel frame, fits battery wing nuts securely • Insulated to eliminate shorting, sparks or possible explosions • Foam grip handle eliminates slipping. • Great gift for pilot or mechanic.

P/N 12-16200 ..... ---

NO-SPARK ABS BATTERY TOOL

3D printed abs plastic with 3/8" drive for a socket wrench.
Dimensions - 3"x1"
Plastic is non-conducive so you can safely take off and on your battery terminals without a shower of sparks.
Throw it in your tool box or take it in the airplane .....P/N 13-25146 ..... ---

ADEL CLAMP SCREW HOLDER

These handy little helpers hold Adel and P clamps closed so that you can install a ground strap or nut with a free hand. Insert this tool the into the screw threads while compressing the clamp stack, install hardware, and a simple pull will release the clip for final torquing of the nut. Laser cut from .018" stainless steel for resilience, flexibility and corrosion resistance. Works on #6, #8, #10, and #12 screws. MADE IN USA .....P/N 12-06470 ..... ---

SCHRADER VALVE SERVICING EXTENSION SOCKET

This tool is the solution to service hard to reach Schrader valves, typical with many landing gear and accumulator configurations. Compatible with MS28889-2 and 9019C valves (3/4" jam nut) Bombardier, Gulfstream, Hawker, Cessna, Embraer, and more. Machined from 303 stainless steel this tool is capable of high-pressure servicing. Replacement packings are available in our store; Parker Hannifin P/N EM163 N1613-007.....P/N 12-06468 ..... ---

TOOLING BREWER WRENCH

Great for tight quarters and engine work. Don't disassemble more than you need to access a fastener deep in a confined area. They can also be bent without the need for a torch, or cut down to make thin dog bones.
From 1/4" to 11/16". 12 point box ends, with 1/4" or 3/8" drives at 2 locations for torquing. Drives are 1.5" and 6.5" from fastener center. Laser cut from 10 and 12 gauge polished stainless steel. MADE IN USA.

1/4"-5/16".....P/N 12-06471 ..... ---
3/8"-7/16".....P/N 12-06472 ..... ---
1/2"-9/16".....P/N 12-06473 ..... ---
5/8"-11/16".....P/N 12-06474 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

VALVE WOBBLE TEST FIXTURES

The Valve Wobble Test Fixture for parallel valve Lycoming engines is used to comply with LycomingSB–388a. Quality made of aluminum and alloy steel, it is easy to use with no set screws or feeler gauges required. Allows direct reading of wobble from dial indicator. Note: Will work on a angle valve engine.

Fixture w/o indicator....P/N 12-21500 ..... ---
Fixture with indicator....P/N 12-21505 ..... ---

DISTRIBUTOR BLOCK SPRING INSTALLATION TOOL

This tool facilitates the proper installation of contact springs on Bendix magnetos. The O–ring locator ring assures proper location of the tool in the contact tower. Features knurled body grip and ball plunger grip. Made of alloy steel.....P/N 12-21510 ..... ---

VALVE SPRING COMPRESSOR

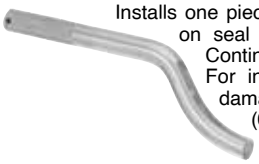
This tool is used to compress valve springs during valve removal and installation. It is ergonomically designed for shop and field use and comes with special pivot pin. Features alloy steel construction with nickel plating ..... P/N 12-00202 ..... ---

VALVE LASH ADJUSTING TOOL

This tool greatly reduces the time required to adjust valves and improves the accuracy of the adjusting operation. Used on Lycoming O 235 and O 290 series engines. Quality constructed of alloy and toolsteel.

P/N 12-21550 ..... ---

PROPELLER SHAFT OIL SEAL INSTALLER



Installs one piece stretch seals without damaging surface on seal or crankshaft. For all flange shafts per Continental Bulletin M-70-2. Also fits Lycoming. For installing one piece stretch seals without damaging surface on seal or crankshaft. 1 lbs (0.5Kg) shipping weight.

P/N 12-04566 ..... ---

VALVE SPRING COMPRESSION TOOL

Genuine Briggs & Stratton tool used on the L-Head series engines to remove and re-install the valve spring retainer.

P/N 08-17411 ..... ---

ROCKER ARM SHAFT REMOVAL TOOL

These simply bolt to the head and the knurled knob screws down to compress the valve spring allowing the shaft to be slid out with no spring pressure.

P/N 12-03227 ..... ---

THROTTLE SHAFT BUTTERFLY SCREW STAKING TOOL

This quality made alloy steel tool facilitates the proper staking of throttle shaft butterfly screws and eliminates the possibility of damaging the carburetor during staking. The tool can easily be operated by one person on the bench without chisels, special fixturing or hammers. All wear components are easily replaceable for long service life. .....P/N 12-21528 ..... **---/ea.**

BUNG NUT DRUM WRENCH

Non-Sparking Aluminum Bung Nut Wrench: Use to install or remove large and small drum plugs and install faucets. Accommodates most common bungs also, tightens or loosens drum rings.

P/N 08-07615 ..... ---

SAFETY MAGNETO LOCK TOOL

This handy tool fits most Bendix magnetos and prevents damage to distributor gear teeth brought about by accidental turning of the engine during magneto installation. Use for E gap or engine timing. Body taper locks into timing window. Polyurethane rubber throughout.

P/N 12-21535 ..... ---

ATS MAG LOCK TOOL

Holds Timing Gears When Removed. Works with all bendix magnetos. 1 lb (0.5Kg) shipping weight.

P/N 12-05509 ..... ---

LYCOMING TIMING POINTER

This tool is used to align timing numbers and marks to the crankcase parting line on Lycoming engines. It permits timing from the marks on the aft side of the flywheel. A spring clip holds the tool to the flywheel.

P/N 12-21540 ..... ---

CONTINENTAL O–200 TIMING POINTER

This tool is used to align timing numbers and marks to the crankcase parting line on the Continental O–200 engine. It is held to the propeller flange with magnets, and eliminates the need for all other timing angle devices and TDC indicators. Quality made from delrin and tool steel. Greatly simplifies the timing of new magnetos and periodic timing checks.

P/N 12-21545 ..... ---

ALTERNATOR DRIVE COUPLING TOOL KIT

Alternator Drive Coupling Tool Kit: Designed for proper installation, removal and testing of alternator drive couplings found on many Continental Aerospace Technologies piston engines.

Alternator Coupling Tools are purpose-built to make it easy for mechanics to inspect this critical component and simplify coupling installation and removal. The tool kit consists of a zinc-coated coupling spanner wrench and unique coupling gear socket with steel housing and aluminum gear engagement, designed to protect the steel coupling gear from damage during maintenance. Together, these tools allow the coupling to be held in place (mounted on the alternator or free-standing) while the coupling gear slippage is checked with a calibrated 3/8" torque wrench (as specified in the engine maintenance manual).

For IO520 & 550 Engines.....P/N 08-17288 ..... ---
For Continental C-75/85/90/115/125/145, E-165/185/225, O-200/300, IO-240/360 series engines, in addition to Continental O-520/550 series engines.....P/N 08-17440 ..... ---

ENGINE OVERHAUL STAND

This bolt together Engine Overhaul Stand, ideal for actual overhaul of engines. Constructed of heavy duty steel, it features three legs which allow it to sit level on uneven floors. Predrilled adapter for Continental & Lycoming engines. Sturdy tripod design. Assembles in minutes with a 1/2" wrench. Assembled dimensions: 24" (61cm) high, 36" (91cm) distance between legs. Includes a set of locking casters for easy mobility. Supports up to 1200 lbs (545 Kg) (static tested to 2500 lbs (1136 Kg). Includes Adapter for Continental and Lycoming engines. MADE IN USA.

Overhaul Stand .....P/N 12-21555 ..... ---
Wheel Set for Stand .....P/N 12-00919 ..... ---

CONTINENTAL ENGINE MAG TIMING TOOL

Aluminum CNC tool manufactured in Alaska for simple and perfect magneto timing. Simply position engine on #1 TDC compression stroke. Lube grommets. Put this tool on the top two propeller nuts and sight down top case halves to see exact mag timing. Now there's no need for propeller protractor cones!

TCM: 470 / 520 / 550.....P/N 12-02817 ..... ---
C-85F / C-90 / O-200.....P/N 12-05514 ..... ---
O-300: A / B / C .....P/N 12-05515 ..... ---

AERO TAR LYCOMING ST-289 INTAKE PIPE SWAGING TOOL

Aerotar Lycoming ST-289 Intake Pipe Swaging Tool.....P/N 12-05310 ..... ---

TO

LYCOMING VALVE SPRING COMPRESSOR

This cast aluminum alloy valve spring compressor fits Lycoming parallel valve and angle valve horizontally opposed engines. An excellent tool at an economical price .....P/N 12-21520 ..... ---

LYCOMING TAPPET GAUGE

Similar to Lycoming Gauge ST23, this tappet gauge is Rockwell hardened to 48-52 and precision ground to .028 and .080. This gauge is a must for professional aircraft mechanics.....P/N 12-00918 .....

EAR ISLAND REMOVAL TOOL

When substantial quantities of material have to be removed from the exhaust port, it may be necessary to also remove the island around the exhaust stud area. The ear island removal tool and pilot can be used to accomplish this without the use of power tools .....P/N 12-17608 ..... ---

MAGNETIC SHEET METAL CLAMPS

Great general purpose discs. They are excellent for arts and crafts applications that require a strong, thin disc. Just 1/16" thick, but still a sturdy disc. They are an excellent choice for magnetic therapy. The D81 is deceptively strong for it's size.

P/N 12-05104 ..... ---

HANDY BEARING PACKER

Quickly Flushes Out Old Grease and Repacks Bearings with Less Mess. The Handy Packer works on bearings up to 3 1/2" O.D. The grease stays in the tool cavity, not on your hands. To pack a bearing, place the bearing on the piston. Press down on the cap until the old grease is forced out and the new grease shows on top of the bearing.

P/N 12-02578 ..... ---

MAGNETIC FINGER TOOL

This snug and stretchy glove slips on your finger and turns it into a professional tool. The powerful magnet at your fingertip allows you to hold and retrieve any small metal object with precise control. Use it to easily start a variety of fasteners in tight-fitting or difficult to reach places. At work. At home. Anytime your finger needs a magnetic grip on things.....P/N 12-04565 ..... ---

HEAVY-DUTY BI-METAL HOLE SAWS

Milwaukee hole saws provide an economic al means of extending the useful range of portable drills, drill presses and lathes. High speed cutting edges welded to steel bodies produce clean, accurate holes All hole saws listed cut to standard 1.25" depth. Order appropriate arbor for use with each size hole saw.

Hole Dia.	Part No.	Use w/Arbor No.	Price
5/8"	49-56-0620	12-01993	---
3/4"	12-02001	"	---
7/8"	12-01992	"	---
1"	49-56-1000	"	---
1-1/8"	12-01991	"	---
1-3/16"	49-56-1180	"	---
1-1/4"	49-56-1250	49-56-7055	---
1-3/8"	49-56-1370	"	---
1-1/2"	12-01990	"	---
1-5/8"	49-56-1620	"	---
1-3/4"	49-56-1750	"	---
1-7/8"	49-56-1870	"	---
2"	49-56-2000	"	---
2-1/4"	49-56-2250	"	---
3-1/8"	49-56-3120	"	---

HEAVY-DUTY SHOE SAW ARBORS

QUICK CHANGE ARBOR - Use for hole saw sizes 1-1/4" and larger. The Quick Change 7/16" shank prevents slipping in chuck. Pin drive construction permits fast interchanging of hole saws without removing arbor from chuck. Pilot drill size 1/4".

P/N 49-56-7055 ..... ---

NUT PLATE DRILL JIGS

Nut Plate Drill Jigs are designed to facilitate accurate rivet hole drilling for standard plate nuts. Nut Plate Drill Jigs are known as Anchor Nuts Or Nut Plates. Hand-held Nut Plate Drill Jigs are manufactured to precise tolerances and include drill bushings to reduce wear and assure consistent hole-spacing. Every Nut Plate Drill Jig features an ergonomically designed handle with a flexible stainless spring blade, allowing for clearance while the jig is in use.

SINGLE LUG PLATE NUT DRILL JIGS

Nut Thread Reference	(C) Hole Spacing	(P) Pilot Diameter	(K) Drill Size	Part No.	Price
6-32	.344	.1390	#40	12-04781	---
8-32	.344	.1640	#40	12-04783	---
10-32	.344	.1910	#40	12-04784	---
1/4-28	.344	.2480	#40	12-04785	---

SINGLE MINI LUG PLATE NUT DRILL JIGS

Nut Thread Reference	(C) Hole Spacing	(P) Pilot Diameter	(K) Drill Size	Part No.	Price
6-32	0.218	0.1660	#40	12-04786	---
8-32	0.234	0.1930	#40	12-04787	---
10-32	0.250	0.2180	#40	12-04788	---
1/4-28	0.281	0.2810	#40	12-04789	---

TWO-LUG PLATE NUT DRILL JIGS

Nut Thread Ref	(C) Hole Spacing	(P) Pilot Dia	(J) Hole Spacing	(K) Drill Size	Part No.	Price
6-28	0.344	0.688	0.1390	#40	12-04790	---
8-32	0.344	0.688	0.1640	#40	12-04791	---
10-32	0.344	0.688	0.1910	#40	12-04792	---
1/4-28	0.344	1.000	0.2480	#40	12-04793	---

TWO-LUG MINI PLATE NUT DRILL JIGS

Nut Thread Ref	(C) Hole Spacing	(P) Pilot Dia	(J) Hole Spacing	(K) Drill Size	Part No.	Price
6-32	0.2180	0.4360	0.1390	#40	12-04794	---
8-32	0.2340	0.4680	0.1640	#40	12-04795	---
10-32	0.2500	0.5000	0.1910	#40	12-04796	---

CORNER LUG PLATE NUT DRILL JIGS

Nut Thread Ref	(C) Hole Spacing	(P) Pilot Dia	(J) Hole Spacing	(K) Drill Size	Part No.	Price
8-32	0.344	0.486	0.1640	#40	12-04797	---
10-32	0.344	0.486	0.1910	#40	12-04798	---
1/4-28	0.500	0.707	0.2480	#40	12-04799	---

MECHANICS EYEBALL DRILL JIG

The eyeball drill jig was designed to help eliminate time consuming manual layout of the holes for the firewall eyeball. It's a great accessory! The drill sequence is started with the center hole for the eyeball, drilling a #30 hole. Once this hole is drilled, a #30 cleco is placed in the center hole. Next, drill all of the perimeter holes with the drill jig and remove the #30 cleco. Take the drill jig off, and increase the center hole to the size of the eyeball. .....P/N 12-04593 ..... ---

SCREWGRAB ANTI-SLIP GEL FOR STRIPPED SCREWS

Helps remove or tighten all types of fasteners – damaged or rusted. A single dab of ScrewGrab creates a positive grip between metal surfaces (tests have shown as high as 800%), that virtually eliminates tool wear or rounding and deforming of fasteners • Not a glue • Works instantly • Wipes clean after use • Non-corrosive.....P/N 12-04568 .....

S4-1 RACE REMOVAL TOOL

A & P mechanics will find this S4 outer bearing race removal tool to be very effective and well priced. Hemispheres held together by the "O" ring are inserted together behind the bearing race. The pilot is then inserted to expand and lock the halves & push out the race. You'll like its simplicity and ease of use.....P/N 12-17601 ..... ---

S4-2 RACE REMOVAL TOOL

The S4 magneto drive end inner race removal tool works in conjunction with a standard bearing puller. The split gripper ring fits behind and around the race and is captured in the puller ring by 2 opposing set screws. A groove on the puller ring provides the point of attachment for the puller arms.

P/N 12-17602 ..... ---

S4-3 RACE REMOVAL TOOL

The S4 magneto seal installation, inner and outer race installation tool is three tools in one and is proportioned in such a way that it is easily accommodated by most small bench arbor presses.

P/N 12-17603 ..... ---

TIMING JUMPERS

The timing jumpers are easily used for timing magnetos without removing the breaker box cover. Simply remove the "P" lead and replace with timing jumper. Then hook up timing light leads. These handy devices have proven to be a real time saver and, in some cases, an outright necessity. **SOLD IN PAIRS**

Bendix S4/S6.....P/N 12-17700 .....**---/pr.**
Bendix D2200, D3000, D3200 .....P/N 12-17710 .....**---/pr.**

MAGNETO ROTOR BEARING SETTING GAUGE

Determines condition of excess bearing clearance and allows for precise adjustment of new bearings to prevent over or under preload. Available with or without dial indicator. Choice of 3/8-16 or 3/8- 24 threaded shaft fittings.

Kit Description	Thread	Part No.	Price
Setting Gauge & Ind.	3/8-16	12-17801	---
Setting Gauge & Ind.	3/8-24	12-17802	---
Setting Gauge & Ind.	Both	12-17803	---
Setting Gauge, No Ind.	3/8-16	12-17901	---
Setting Gauge, No Ind.	3/8-24	12-17902	---

THROTTLE SHAFTBUSHING KNOCKOUT

The throttle shaft bushing removal tool is very competitively priced and will help you avoid a jury-rigged operation that could damage an expensive carburetor body. Now there is no reason not to have one. They are available and affordable..... P/N 12-17400.....**---**

COMPASS ADJUSTING TOOL

The compass screwdriver is a great little tool that is totally non-magnetic, but also overcomes the shortcomings of solid brass or aluminum tools. This tool has a nice hex aluminum handle and a stainless steel driver insert. No need to worry about damaging the tip on a frozen compensator screw, and you can also remove the cover plate screws with the same tool.

P/N 12-17300 ..... ---

ENGINE TOOL TRAY

The engine tool tray is designed for aviation enthusiasts who do maintenance on their own aircraft, as well as full time mechanics. This tool tray sits on top of the push rod tubes and is protected by rubber trim on the bottom to eliminate any damage to the aircraft engine. Instead of dropping a screwdriver or a nut down between cylinder baffling, this tool tray will give the mechanic great organization. It allows for spark plug placement, tool placement, as well as all of those pesky nuts and bolts.....P/N 12-04592 ..... ---

ATS PISTON RING COMPRESSOR KIT

The ATS Piston Ring Compressor features a quick-change design to speed up piston ring installation. It includes the famous Hastings Ring-O-Matic® pliers and bands that operate in all positions: not just vertically or horizontally. The pliers incorporate a precision locking action for exact holding and quick release. Complete kit includes the Ring-O-Matic® pliers and one of each of the following size bands: 3-7/8" to 4-1/8", 4-1/8" to 4-1/2", 4-1/2" to 4-3/4", 4-3/4" to 5", 5" to 5-1/4", & 5-1/4" to 5-3/4"

Description	Part No.	Price
Kit	12-03154	---
Compressor Pliers	12-03155	---
Piston Ring Compressor Band 3-7/8"TO 4-1/8"	12-03156	---
Piston Ring Compressor Band 4-1/8"TO 4-1/2"	12-03157	---
Piston Ring Compressor Band 4-1/2"TO 4-3/4"	12-03158	---
Piston Ring Compressor Band 4-3/4"TO 5"	12-03159	---
Piston Ring Compressor Band 5"TO 5-1/4"	12-03160	---
Piston Ring Compressor Band 5-1/4"TO 5-3/4"	12-03161	---

PISTON RING COMPRESSOR SET

The most efficient, versatile and dependable tool of its kind on the market. Designed to operate both vertically and horizontally. Fine-tooth ratcheting lock permits bands to be contracted in extremely small increments. Positive lock insures a free hand. Eliminates broken rings during installation. Set includes compressor pliers and the two bands (1123, 1125).

Part No.	Size	Engine Application
1123	3-7/8" to 4-1/8"	Cont. A-65, C-85, C-90, 0-200, 0-300
1125	4-3/8" to 4-5/8"	Cont. E-225, IO-470

Set .....P/N 12-10900 ..... ---
Individual Band # 1125 for 4-3/8 .....P/N 1125 ..... ---

CYLINDER BASE NUT WRENCHES (CONTINENTAL)

Made of top quality tool steel. 12 Point with 1/2" square drive, 13" long.

Set of 4 .....P/N 12-11200 ..... ---
or order individual wrenches below.

LYCOMING & CONTINENTAL CYLINDER BASE NUT WRENCHES

Wrench Part #	Size	Engine Application	Price
2882	9/16"Hex	C-85, 0-200, 0-300, G0-300, E-185, E-225, 0 & IO-470, IO-360, IO-520	---
2882-2	1/2" Hex	A-65, C-85, 0-200, 0-300, G0-300, E-185, E-225, IO-360	---
2882-3	5/8" Hex	A-65, 0-470, IO-520	---
2882-4	3/4" Hex	No longer used on Cont.; Used on Lyc. 0-390D, D2 and all wide deck Lyc engines	---

CYLINDER BASE NUT WRENCHES

- For lycoming engines
- For socket type nuts (internal wrenching)
- Standard 1/2" square female drive end
- Made from alloy steel forgings, heat-treated for maximum toughness.

1/2" Allen Head Hex .....P/N 64942 ..... ---
3/8" Allen Head Hex .....P/N 64943 ..... ---
Set of both .....P/N 12-04722 ..... ---

ATS LYCOMING AND CONTINENTAL CYLINDER BASE NUT WRENCHES

The ATS 3882-series Cylinder Base Nut Wrenches are made from forged alloy steel, tempered, and hardened for maximum strength.

Description	Part No.	Price
ATS 3882 9/16	12-04977	---
ATS 3882 1/2	12-04975	---

Description	Part No.	Price
ATS 3882 5/8	12-04976	---
ATS 3882 3/4	12-04978	---

WASHER WRENCH SET

Washer Wrench Set. This is a (4) piece washer wrench set. It's used to hold AN/ aircraft washers to reach into hard to reach areas .....P/N 12-04723 ..... ---

TO

ULLMAN MAGNETIC PICK-UP TOOLS

HT-2

HT-1

These Ullman pick-up tools with Powercap offer a unique combination of features which make them ideal for work around aircraft. The stainless steel telescoping handle is strong, long, and lightweight, and the comfortable, textured cushion grip keeps handle secure even in wet or oily hands. The head features a compact industrial strength magnet for retrieving heavy objects in tight places. The powercap shields magnet side so that the head can be easily guided past ferrous metal objects. Available in 3 convenient sizes.

HT-1 lifts 1-1/2 lbs, over 2 lbs with POWERCAP™ telescopes from 6-5/8" to 33-1/4".....P/N 12-21385 ..... ---
HT-2 lifts 3-1/2 lbs, over 5 lbs with POWERCAP™ telescopes from 6-5/8" to 33-1/4".....P/N 12-21386 ..... ---

CHP4-L HOOK & PICK SET

has picks that are 9.75" long with textured cushion grips. These longer picks are ideal for working in hard to reach awkward areas.
P/N 12-00716 ..... ---

GMC-2 DUAL PURPOSE TOOL

contains a MegaMag Pickup Tool that lifts 16 lbs. and a 2.25" Inspection Mirror with a metal base that mounts in seconds and brings hidden areas into full view.
P/N 12-00718 ..... ---

EXHAUST PORT RESURFACING TOOL

The exhaust port resurfacing tool is designed to recondition port surfaces where no more than .010" of material need to be removed. It is easily bracketed and aligned to the port in reference to the rocker cover surface. Execution of the cutting operation only requires hand power. No air or electrical power is required. Mounting bracket adapters are available for the following engines: A&C series continentals, Lycoming Parallel Valve, Lycoming Angle Valve, others on request.
P/N 12-17605 ..... ---
Lycoming Parallel Valve Bracket.....P/N 12-17610 ..... ---
Lycoming Angle Valve Bracket .....P/N 12-17611 ..... ---
Cutter Head Inserts .....P/N 12-17607 ..... ---

EAR ISLAND REMOVAL TOOL – When substantial quantities of material have to be removed from the exhaust port, it may be necessary to also remove the island around the exhaust stud area. The ear island removal tool and pilot can be used to accomplish this without the use of power tools. .....P/N 12-17608 ..... ---

THE CORE RECESSOR

The core recessor is a new product with the purpose of serving as an efficient tool that makes the process of removing core cells in Nordam Panels and composite fiberglass more efficiently. Thus, it reduces time for edge fillers, which are necessary procedures to customize aircraft cabinets, floorboard, vanity's headliners, valance panels, etc. Is light weight, easy and safe to use. Core panels from 1/8 to 3/4 inch with no adjusting. Requires no electricity.
Core Recessor .....P/N 12-02270 ..... ---
Core Recessor Mini.....P/N 12-02271 ..... ---

UNI-MAG WRIST BAND MAGNET

Uni-Mag is a wrist worn magnet that allows craftsmen to keep parts close to hand while working rather than in your pocket, on a ladder, or in your mouth. It holds nuts, bolts, screws, nails, tools, etc. A specially created magnetic field allows parts to lay flat on the face of Uni-Mag rather than upright. Save time and put an end to fumbling for small hardware with Uni-Mag. Comes complete with magnet and wristband .....P/N 12-30110 ..... ---

SUPER HANDY MAGNETIC RETRIEVAL TOOL ST-225

The Super Handy Magnetic Retrieval Tool extends 26" and picks up five pounds.
P/N 12-02932 ..... ---

AMAZING ROD SAW

Tiny particles of tungsten carbide, one of the toughest and hardest substances in the world, have been bonded to a steel rod to produce the Rod Saw. Fits standard 12" hacksaw frame. Use when regular hacksaw will not work. Lets you cut steel, rock. Not recommended for soft materials. .....P/N 12-01180 ..... ---

HANDEE CLAMP

This innovative tool solves the problem of that out of reach grasp. Have you ever been working on a job where you needed to put a clamp, nut, or bolt on something that was just out of reach of your fingers or another bulky tool? The Handee Clamp makes that job easy. Simply put that nut, clamp, or bolt on one end and then tighten the nut on the other end to secure. Designed to firmly hold nuts, bolts, and clamps in its easily adjustable jaws, the Handee Clamp acts as a small, versatile vise grip enabling you to focus on the job at hand. You won't have to worry about dropping that nut or bolt into that pesky floor drain ever again, or fight with that hose clamp as you work on that transmission line. From a professional auto or aviation mechanic, to a do-it-yourselfer that always has a project on deck in your garage at home, you need this tool in your inventory .....P/N 13-20594 ..... ---

HIGH CAPACITY EXHAUST DESICCATOR

2.5 times the desiccant capacity of previous design, One piece construction allows the dessicant to be contained in the core of the plug. Made of durable high quality urethane rubber that will last almost indefinitely
P/N 12-01057 ..... **---/ea**

GOLDENROD DEHUMIDIFIER

This compact, low-voltage dehumidifier is an ideal way to eliminate dampness and mildew in aircraft which can cause mildew growth in carpet and upholstery and wreak havoc with electrical systems. In stall under the instrument panel or on the deck between seats. If installed in the engine compartment, Goldenrod will eliminate moisture which leads to rust, keep ignition wiring dry, and facilitate cold weather starts. In the hangar, Goldenrod can protect parts, tools, supplies, and components. Operates on standard 110V current 24 hours per day but uses four times less power than a standard light bulb. Safe and effective. Available in four lengths.

Part No.	Length	Watts	Approx. Coverage Up To	Price Ea.
12-30225	12"	8	100 cubic feet	---
12-30230	18"	12	200 cubic feet	---
12-30240	36"	25	500 cubic feet	---

EVA-DRY® HIGH CAPACITY DRY DEHUMIDIFIER

Designed to absorb moisture from small enclosed areas. It will help protect clothes and valuables from the damaging effects of mold/mildew and moisture rot. It is 100% renewable and needs no power to operate. Place the Eva-Dry unit in a closet or any small, enclosed space, and it will start to absorb moisture immediately. There is an indicator window with special "Color Changing Crystals" that change from orange (when dry) to green (when wet) to indicate when the unit needs to be "renewed". The unit will absorb approx. 6-8 ounces of moisture (depending on humidity levels this should take approx. 4-8 weeks). Once the moisture has been absorbed it cannot leak or spill. This unit uses a specially engineered, crystallized silica gel that is odorless, non-toxic, Eco-Friendly and completely safe. .....P/N 12-01621 .....

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

WING STAND

This wing stand is ideal for aircraft homebuilders or restorers needing to safely store and protect aircraft wings during the project. It accommodates virtually all shapes and sizes of wings and is available at a very economical price. We ship this wing stand direct to you from the factory (freight collect). Dims: 72"l x 44"h x 36"w. Assembly req. Each stand holds 2 wings.

P/N 12-21390 ..... **---/ea**

TENNSMITH HAND BRAKE AND STAND

Versatile, economical hand brake designed for straight forming of mild steel in thicknesses of 22 gauge & lighter. Made in the U.S.A by Tennsmith. Bends material up to 48" wide. Wts: brake: 280 lbs. Optional stand: 95 lbs. Ideal for bending materials used in light aircraft construction. Shipped direct to you from factory in Tennessee.

Model S48-22 hand brake
P/N 12-20700..... ---
Optional Stand
P/N 12-20705..... ---

UNIVERSAL HAND BRAKE & STAND

Tennsmith's heavy duty universal hand brake is a great tool for a wide range of sheet metal binding and forming operations in 12 gauge and lighter mild steel. The brake is ideal for both box and pan and straight bending in hold and cold rolled plate, stainless steel, aluminum, and heavy plastic. Welded steel plate construction for strength and rigidity. Bends material up to 48" wide Wts: brake: 1330 lbs. Optional stand: 95 lbs. Shipped truck collect direct to you from factory in Tennessee.

Model HBU48-12 Hand Brake.....P/N 12-20710 ..... ---
Optional Stand.....P/N 12-20705 ..... ---

TENNSMITH FOOT SQUARING SHEAR

Tennsmith squaring shears offer precision shearing and rugged construction. These shears feature traction, ground alloy tool steel blades to prevent material movement during shearing. Will shear material up to 16 gauge mild steel and up to 20 gauge stainless steel. Both blades are adjustable and back gauge gives highly accurate readings. Wts: Model 36: 700 lbs. Model 53: 950 lbs. Shipped truck collect to you direct from factory in Tennessee.

Model 36 Shear (Max. Cutting Width 37")...P/N 12-20715 .. --- Model 52 (Max. Cutting Width 52") .....P/N 12-20720 ..... ---

TENNSMITH -These products are shipped truck, priced F.O.B. McMinnville,TN. Allow 4-6 weeks for delivery

SEAT TRACK CLEANER

Maintaining adjustable cockpit seats, or passenger seating secured in notched tracks, requires removing the dirt and grit that have become embedded in the tracks. Rex-Cut Products has developed a thin-profile mounted wheel specially designed to accomplish this job efficiently and safely. The seat track cleaners are manufactured using layers of reinforced nonwoven cotton fiber and abrasive grain which are bonded into discs. When mounted on a die grinder they are able to fit inside the seat tracks. Designed for cleaning all the interior surfaces of the track without having to change discs, one disc will remove caked on sludge, dirt and grit while removing minor burrs and rough edges. The seat track cleaners are non-loading on aluminum and leave superior surface finishes. Available in 54 and 80 grits in aluminum oxide grain mounted on a 1/4 x 1/2" shank.

54 Grit Seat Track Cleaner .....P/N 12-00955 ..... ---
80 Grit Seat Track Cleaner .....P/N 12-00952 ..... ---

AN BOLT LENGTH GAUGE SET

Effortless Bolt Sizing: Our AN Bolt Length Gauge simplifies the process of identifying AN bolt lengths, making it a breeze for both professionals and hobbyists. Say goodbye to tedious measuring with calipers or rulers. Wide Range of Bolt Sizes: This versatile tool covers a broad spectrum of bolt sizes, from 3 to 50, ensuring you have the perfect solution for any project. No more second-guessing or wasting time searching for the right bolt length. Precision and Accuracy: Engineered for accuracy, our gauge guarantees precise measurements every time. You can trust the results it provides, reducing errors and improving the quality of your work.....P/N 12-06312 ..... ---

SLIDE HAMMER

Blue vinyl hand grip over steel handle reduces sting on technicians hands and provides 100% grip. 3 lb. slide weight is mounted on 1/2" plated steel shaft. Broached hex in nose cone locks pulling screw in place...ends breakage. Supplied with two hardened pulling screws and "L" puller hook fabricated of aircraft quality steel. Nose cone and shaft threads are 1/2" - 20.....P/N 15-08252 ..... ---

MACHINIST HOOK SCRIBE

Machinist Hook Scribe New. 2-point scriber has hardened, ground steel points. Features a straight point and a 90 degree point. Length: 9".

P/N 12-02896 ..... ---

PIG TAIL HOOK SCRIBE

Both the 45 degree and pig tail points of the scribe are made of hardened, ground steel. Both ends of the tool unscrew from the body.

P/N 12-02897 ..... ---

WOOD HANDLE TOOTHBRUSH STYLE CLEANING BRUSH

Three rows of bristles by seven, your choice of materials, with bent wood handle approx 7 3/4 inches long. An especially polular welders tool, but very suitable for a variety of cleaning applications. Use stainless steel for maximum abrasive action, brass for less scratching. SW version stainless bristles are wire laced for positive retention.

P/N 04-02647 ..... ---

CLEANING TUBE BRUSH 3/16 X 6.25 INCHES

Tube brushes (also known as cylinder brushes) are filled with Dupont Tynex nylon and have excellent wear resistance. Although more susceptible to strong solvents than bristle filled brushes, nylon is stiffer, wears longer and cleans easier. This cylinder brush is perfect for manually cleaning internal surfaces such as tubes or threaded holes. Handle is made of twisted steel wire. P/N 09-04587 ..... ---

TO

SWISS PATTERN NEEDLE FILE SET

Swiss Pattern Needle File Sets have been designed to meet the needs of hobbyists, craftsmen, tool makers and jewelers. Every file is made from alloy steel and machined into distinctive shapes for various small scale and finishing applications. Also included is a 700 series Versa-Grip handle with a locking screw chuck.

P/N 12-03351 ..... ---

STRIPMASTER WIRE STRIPPER

Stripmaster wire Sstripper #16 to #26 AWG. Knife-type blades Cleanly strips wire up to 7/8 in. (22mm). One-third less hand pressure for each strip. Eliminates nicking, cutting, and fraying of wire. Wire gripper holds wire centered in hole.

P/N 12-03714 ..... ---

IDEAL COAXIAL STRIPPER

3-step coaxial stripper. Adjustable coaxial wire stripper. For popular dual crimp BNC and TNC connectors. Strips braid 0.240 inch (6mm) and dielectric 0.240 inch (6mm). Replacement cassettes available.

P/N 12-03716 ..... ---

SCREW PAINT CUTTERS

For AN4 Screws. You know how frustrating it can be to remove a painted over screw only to wind up chipping up the paint job. But you wouldn't have that problem if you had a set of these innovative paint cutters. They work by slicing through the paint around the head of the screw so you can remove it without chipping the paint. They have a 1/4x28 thread to fit into any angle drill or you can get the optional arbor (p/n 12-02460) for use in a drill chuck. Does not work on dome head rivets. 1 lbs (0.5Kg) shipping weight.

Size	Part No.	Price	Size	Part No.	Price
AN4	12-02452	---	AN6	12-02453	---
AN8	12-02454	---	AN10	12-02456	---
1/4"	12-02459	---	6 pc. Set	12-02461	---

PAINT CUTTER ARBOR

Arbor .....P/N 12-02460 ..... ---

INSTRUMENT MOUNTING HOLE DRILL JIG

Aircraft instrument mounting hole drill jig for standard 2-1/4" & 3-1/8" diameter instruments. Accurate and simple tool to use, drill jig made of hardened steel for long life.

P/N 12-00975 ..... ---

09-06037

NSL DISPENSER RETRACTABLE RETAINER

The B&O model HP-SK/100 and HP-SKA/100 is a sealant gun manufactured for the use of Semco and Techcon cartridges. Designed with a lightweight, retractable holder system, the HP-SK/100 and HP-SKA/100 does away with the standard steel tubed cartridge holders and can be used with or without the retainer.

This unique system only requires one cartridge holder to hold 2.5 oz, 5 oz, 6 oz, 8 oz and 12 oz cartridges. It is engineered for smooth dispensing, and the holder is designed to provide a full view of the cartridge, allowing the user to see the level of fluid inside the dispenser at all times. Manual Dispenser w/Retractable Retainer.....P/N 09-06036 ..... ---
Battery Gun w/Retractable Retainer.....P/N 09-06037 ..... ---

NSL SEALANT MIXER HEAD

Chuck the 1/4" shank of this tool into your drill and easily mix SEMKIT Sealant Tubes , the flat end has the 2 connectors that fit into the sealant cartridge spinner, with the long narrow hexagonal piece having capabilities to be attached to a drill .P/N 09-06059 ..... ---

ERCOUPE 3 STONE ROTARY CYLINDER HONE KIT

This 3 Stone Rotary Cylinder Kit makes available an effective tool to recondition the interior running surface of the oleo cylinder barrel, and is intended to be used each time the MLG oleo struts are disassembled for routine seal replacement or when upgrading to the popular Main Landing Gear Oleo Restoration Kit (STC SA01247CH).

The clean and resurfaced interior cylinder bore results in increased seal effectiveness and service life and can be accomplished with or without removing the Taxi Stack end fitting and Donuts.

This kit is applicable to Ercoupe 415-C, CD, D, E, G, F-1, F-1A, Alon A2, A2-A and early M10 aircraft that are equipped with either the Hayes welded or Erco forged trailing link MLG assemblies that incorporate liquid filled oleo struts. .....P/N 12-05513 ..... ---

MILWAUKEE M12 SOLDERING IRON KIT

The M12™ Soldering Iron delivers fast application speeds by reaching operational temperature in under 18 seconds and maintaining an optimized temperature throughout the most demanding applications. The heat indicator utilizes REDLINK™ INTELLEGENCE to notify users when the tool is ready-to-use and safe-to-store, eliminating the guesswork. The 3-stop pivoting head provides unmatched access by allowing users the ability to adapt the tool for the application and solder in more confined spaces. The M12™ Soldering Iron powered by REDLITHIUM™ battery technology delivers up to 40 minutes of run-time on a M12™ Compact Battery Pack.....P/N 12-05737 ..... ---

PIPEMASTER WELDER'S TOOL FOR CONTOUR FITS

Pipemaster gives aircraft builders the ability to cut a piece of tubing on both ends and have it fit its intended location on the first try. Tedious hours of grinding and misfit joints can be eliminated producing exact welds and stronger airframes. Features spring temper stainless steel pins,aluminum inner shell, and rugged ABS housing. Simply slip over pipe, push down, transfer and cut, and the tubing is ready to weld. Pipemaster transfers the exact outline of the pipe joint in just seconds. Use for penetration cuts as well.

Part No.	Tubing O.D.	Price
12-00102	3/4"	---
12-00103	7/8"	---
12-00104	1"	---
12-00105	1-1/8"	---
12-00106	1-1/4"	---
12-00107	1-5/16"	---
12-00108	1-3/8"	---

Part No.	Tubing O.D.	Price
12-00109	1-1/2"	---
12-00111	1-5/8"	---
12-00112	1-3/4"	---
12-00113	1-7/8"	---
12-00114	2"	---
12-00116	2-3/8"	---

MAGNETIZER / DEMAGNETIZER

This versatile tool saves you time and trouble by instantly magnetizing or demagnetizing you tools & parts on the job. Reliable, powerful permanent magnets for a super long life, and its compact size,shatterproof plastic shell, this tool will fit easily in you tool box. This tool allows easy, precise handling of small steel parts in confined spaces, collects metal items from inaccessible places, leaves 1 hand free for positioning the work piece, demagnitizes instruments & electronics components. Size: 2.1"x2"x1.1". Wt. .22 lb.....P/N 12-16835 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

3M™ ELITE PNEUMATIC ORBITAL SANDER

Features an alloy steel curved-throttle lever with built-in wrist support. 3M gripping material molded into the interchangeable comfort grip conveniently located speed control dial and internal muffler. Precision Balanced for Smooth Operation Meet or exceed highest performance standards Optimize to work with 3M abrasives. Multiple grips sizes available for improved operator comfort.

P/N 05-11839 ..... ---

3M™ ORBITAL SANDERS

The all new line of 3M™ air-powered finishing tools includes innovations designed to optimize performance and productivity. 3M™ Tools are designed for smooth operation, and are packed with horsepower. Multiple grip sizes are designed to provide advanced operator comfort, and color-coded levers allow for easy orbit identification.

The 3M's NEW dust management system featuring Clean Sanding Abrasives and Accessories is revolutionizing the dust evacuation process. Discs are designed to cut more and last longer. The patented multi-hole pattern captures and remove more dust compared to 5- or 6-hole products.

Non-Vacuum Model

Self-Generated Vacuum Model

Model	Tool Dia. Inch (mm)	Vacuum	Orbit Dia Inch	Max RPM	Motor HP (W)	Airflow Rate SCFM (LPM)	Part No.	Price
20319	5"(127)	Yes	3/16"	12,000	.28(209)	17(481)	05-03483	---
20317	5"(127)	No	3/16"	12,000	.28(209)	17(481)	05-03484	---

ACCESSORIES

Clean Sanding Filter Bag Thorough dust collection enhances the performance of 3M™ Clean Sanding Discs (sold separately)
Achieves superior dust collection when used with 3M™ Random Orbital Sanders with Self-Generated Vacuum .....P/N 05-03486 .....

P-KIT AIRCRAFT WINDOW INSPECTION PRISM KIT

The "P-KIT" (Inspection Prism Kit) is packaged as a completely self contained aircraft window inspection tool kit. It comes in a waterproof lockable case and includes Instructions, Inspection Prism, Coupling Agent and a 6000 Candlepower Flashlight with batteries. It's ready to use to inspect your aircraft windows for possible bolt hole damage.

P/N 12-01333 ..... ---

STORAGE STATION

For storage of up to 15 wire belts or 9 rubber erasers and one MBX Power Tool (machine, belts, erasers not included).

P/N 12-01399 ..... ---

MBX PNUEMATIC SURFACE STARTER SET

For the removal of seam sealant, corrosion, paint, vinyl decals, glue on aluminum and alloy. MBX Surface Treatment Systems Patented Technology: MBX Systems are different from conventional surface treatment systems in that MBX Systems are based on several physical principles. Flexible brush-belts are inserted loosely into a cage-like adaptor system and secured with safety arms. The centrifugal force created by rotation causes the brush-belt to tighten and work as if suspended on a cushion of air. Advantages:Vibration-free operation: The vibration of the wire bristles that occurs when the bristles strike the target surface is absorbed by the air-cushion. The bristles re-strike the target surface at rest (without vibration). This achieves the maximum kinetic energy.

SET 1

• MP-3500 - MBX Pneumatic Power Tool S (3500 rpm) with adapter system for 23mm belts/31mm rubber eraser. • AA-0011 - Adapter for 11mm wire belts • BS M11X - V2A Wire Belt, Med., 11mm angled tips • BS-F11 - V2A Brush Belt, Fine, 11mm • RE-0023 - Rubber Eraser, 31mq.....P/N 12-01394 ..... ---

Medium (11 or 23 mm)
For the removal of seam sealant & corrosion on alluminum bodies

Fine (11 or 23 mm)
For the removal of paint on aluminum bodies.

MBX BRUSH BELTS

MBX Belts are made of a high-performance polyamide fabric - tension resistant up to 440 kilograms. Individual bristles made of spring steel or stainless steel are anchored U-shaped in the flexible polyamide fabric. The materials used for the production of MBX Belts offer top safety and durability due to the high flexibility of the MBX Belts. No clogging - no heat built-up - no grinding. The high masses due to centrifugal force during rotation are absorbed safety by MBX Adapter Systems.MBX Medium have angled tips to create a sandblast effect. 11mm is for expecially hard-to-reach-areas such as a 90° angles.

BS-M11X Med. Blue 11mm Brush
P/N 12-01402 ..... ---
BS-M23X Med. Blue 23mm Brush
P/N 12-01403 ..... ---
BS-F11 Fine Blue 11mm Brush
P/N 12-01404 ..... ---
BS-F23 Fine Blue 23mm Brush
P/N 12-01405 ..... ---

MBX VINYL ZAPPER

"The rotating toothed eraser wheel", patented For the removal of self-adhesive foils and materials, wide-area decoration, adhesive residue on decorative strips and lettering on OEM-painted surfaces made of metal, aluminium, glass, fibreglass (gel coats) - and most amazing: NO PAINT DAMAGE. The centrifugal force created by rotation makes the MBX Vinyl Zapper work as if suspended on a cushion of air. Advantages: Faster working speeds of up to 3,500 rpm Conventional rubber eraser wheels operate only at circa 1,500 rpm. No paint damage, no smearing despite speeds of 3,500 rpm Toothed wheel design. Easy handling. Vibration-free, smooth running (compare a solid rubber tire with an air-filled tire). Increased performance. The working surface of the MBX Vinyl Zapper is strongly enlarged by the application of pressure to the work surface. This improves performance (compare to a car tire containing only a small amount of air). Long service life Wide construction. Vinyl Zapper 31mm Toothed Wheel Construction Removal of elements such as vinyl decals & DOT tape from metal surfaces, fiberglass, plate glass, wood, aluminum, OEM paint finish. ..P/N 12-01406 ..... ---

MBX VINYL ZAPPER KITS

MBX Vinyl Zapper Kit is for removing vinyl decals and graphics on metal glass and fiber glass. It is available with either a pneumatic tool or an electric tool.

Description	Part No.	Price
MBX Pneumatic Vinyl Zapper Kit USSP-01-05 MBX Pneumatic Tool, 1-23mm Adaptor, 3 Vinyl Erasers	12-02038	---

TO

CLECOS - HOLE SAWS

CLECO SHEET HOLDERS

K-SERIES SPRING CLECOS

Sheet holders provide the quickest method for holding sheets together for drilling or riveting. Drill the size hole needed for the rivet and insert the sheet holder. The holders listed comprise the most common sizes. Material thickness range 0" - 1/4". Length is 2.26" Use with sheet holder pliers. **10% discount on 50 pcs., 15% discount on 100 pcs.**

Description	Size	Part No.	Price
M-3/32 Cleco	3/32"	12-01140	---
M-1/8 Cleco	1/8"	12-01138	---
M-5/32 Cleco	5/32"	12-01141	---
M-3/16 Cleco	3/16"	12-01139	---

KK-SERIES SHORT BODY SPRING CLECOS - A shorter overall body to use in areas of limited space. 0-1/4" grip range. Length is 1.63" Made in USA

Material	Size	Drill Size	Part No.	Price
Copper	1/4"	1/4	12-02424	---
Zinc	3/32"	#40	12-02077	---
Copper	1/8"	#30	12-02078	---
Black	5/32"	#21	12-02079	---
Brass	3/16"	#10	12-02080	---

KHD-SERIES LONG REACH SPRING CLECOS - Designed for clamping thicker material. 0-1/2" grip range. Length is 2.40". Made in USA

Material	Size	Part No.	Price
Zinc	3/32"	12-02077	---
Copper	1/8"	12-02078	---
Black	5/32"	12-02079	---
Brass	3/16"	12-02080	---

CL SERIES - The "CL" series fasteners are the standard plunger type Cleco with an extended grip range of 1/4" - 1/2". Length is 2.475" Spring type Fastner

Material	Size	Part No.	Price
Zinc	#40	12-02425	---
Copper	#30	12-02426	---
Black	#21	12-02427	---
Brass	#10	12-02428	---

CLECO KEEPER

Fabricated of durable polypropolene, the Cleco Keeper is prepunched to hold up to fifty sheet metal fasteners. Allows the builder to extract and install Clecos from the storage bin to the work with one hand. Compact, the Cleco Keeper measures 8"L x 3"W. Helps eliminate misplaced fasteners and makes inventory of available fasteners quick and accurate. Available in 3 models to hold 3/32", 1/8", 5/32", or 3/16" clecos.

For 3/32" clecos.....P/N 12-10116 ..... ---
For 1/8" clecos.....P/N 12-10117 ..... ---
For 5/32" clecos.....P/N 12-10118 ..... ---
For 3/16" clecos.....P/N 12-00604 ..... ---

NO-MAR" REUSABLE CLECO BOOTS

Eliminates surface marring both on painted and unpainted surfaces. Easily slips on plier operated style clecos, one size fits all. Yellow polyurethane color. 25 pcs./pkg.....P/N 12-00626 ..... ---

CLECO PROTECTOR

Prevent Damage with Precision: The Cleco Protector is a small yet indispensable tool that fits snugly onto your cleco, ensuring it won't cause any harm to your precious work. Say goodbye to dings and gouges forever!

No More Unsightly Imperfections: Those frustrating small dings around builder rivets will become a thing of the past when you use our Cleco Protector. Don't let bent clecos mar your masterpiece.

P/N 12-06309 ..... ---

CLECALL UPRIGHT CLECO PLIERS

The world's lightest and most comfortable cleco pliers!™ Clecall Upright Cleco Pliers: Faster to use / Easier to Activate. Spring Loaded to open with less effort. 70% lighter than normal cleco pliers at 4.3 oz. (aluminum version) Latest design accommodates 1/4" Cleco width. Vertical profile installs clecos in tight areas with ease! Reduce fatigue and wrist pain. Install clecos on upside down surfaces easily. Designed by Zenith Builder and EAA Lifetime Member.

Economy Steel Pliers .....P/N 12-03756 .....

CLECO GRIP POWER DRIVEN SHEET HOLDERS

Power-Hex Nut Style - Standard Grip 0-1/2". Hex Nut Fasteners are recommended for high production applications that require a consistent clamping force. They are pneumatic driven with the US7381HX Power Nut Runner.

Description	Size	Part No.	Price
0-1/2" Grip Power Driven Hex Nut Fastner, Copper	#30	12-02430	---
0-1/2" Grip Power Driven Hex Nut Fastner, Black	#21	12-02431	---
0-1/2" Grip Power Driven Hex Nut Fastner, Brass	#10	12-02432	---

Power-Hex Nut Style -Long Grip 0-1"

Description	Size	Part No.	Price
1" Grip Power Driven Hex Nut Fastner, Zinc	#40	12-02433	---
1" Grip Power Driven Hex Nut Fastner, Copper	#30	12-02434	---
1" Grip Power Driven Hex Nut Fastner, Black	#21	12-02435	---
1" Grip Power Driven Hex Nut Fastner, Brass	#10	12-02436	---

Manual Wing Nut Style - Standard Grip 0-1/2". Wing Nut Fasteners are recommended for low production applications where high clamping force is required. The clamping force ranges from zero to 300 lbs.

Description	Size	Part No.	Price
0-1/2" Grip Manual Wing Nut Fastner, Zinc	#40	12-02437	---
0-1/2" Grip Manual Wing Nut Fastner, Copper	#30	12-02438	---
0-1/2" Grip Manual Wing Nut Fastner, Black	#21	12-02439	---
0-1/2" Grip Manual Wing Nut Fastner, Brass	#10	12-02440	---

Manual Wing Nut Style - Long Grip 0-1"

Description	Size	Part No.	Price
1" Grip Manual Wing Nut Fastner, Zinc	#40	12-02441	---
1" Grip Manual Wing Nut Fastner, Copper	#30	12-02442	---
1" Grip Manual Wing Nut Fastner, Black	#21	12-02443	---
1" Grip Manual Wing Nut Fastner, Brass	#10	12-02444	---

CAMLOC PLIERS

These Camloc Pliers are used to depress #2600, #2700 and #4000 series Camloc (C-LOCK) studs so they can be properly installed. Pliers are manufactured from forged steel and feature polished bearing surfaces to avoid scratching the stud as it 's being installed. The grips are rubber cushioned for extra comfort and to reduce slipping.....P/N 12-01475 ..... ---

PNEUMATIC CLECO INSTALLATION TOOL

Features: • Lever throttle • 360° swivel mount • For use on button type and side grip temporary fasteners • Quiet operation• Straight handle • 5'8" polyurethane lead hose with 1/8" Male NPT • 5-3/8" Length of tool with 1/4" Female NPT Threaded for air fitting • Made in the U.S.A. .....P/N 12-01120 ..... ---

SPRING LOADED CLECO PLIERS

Due to significant demand, Clecall has developed the first spring loaded traditional cleco pliers with a very affordable price point .....P/N 12-03807 ..... ---

CLECO SHEET HOLDER PLIERS

These pliers are designed to grip and actuate all standard sizes of sheet holders and tension clamps. New manufacture.....P/N 12-10105 ..... ---

TO

5 INCH SERRATED EDGE SCISSORS

5" stainless steel scissors are ideal for consumer and industrial applications. High quality stainless steel blades meet perfectly for precision cutting. The material being cut is held in place by one blade which is slightly serrated providing maximum control. Scissors so sharp, they can cut through electrical wiring, plastic, aircraft composites, Kevlar® and more ..... P/N 12-02975 ..... ---

UTILITY SCISSORS

These 5.5" stainless steel utility scissors can cut through heavy materials, while the black plastic handle and ergonomic design make using the tool comfortable. These scissors are not only useful in the medical field, but in the industrial world as well, and its strong safety tip can offer peace of mind to medics and industrial workers alike ..... P/N 13-03015 ..... ---

CERAMIC SAFETY SCISSORS

With a proprietary finger-friendly ceramic grind, these scissors cut materials effectively, but they resist cutting skin. Used in industrial, institutional, and educational settings alike, these lightweight scissors are ambidextrous and durable. Soft-touch finger grips line their tough glass-filled nylon handles for the ideal mix of strength and comfort. They are also non-sparking and chemically inert .....P/N 12-04970 ..... ---

NO NICK TOOL CABLE TIE REMOVAL TOOL

No nick tool cable tie removal tool
P/N 12-03169 ..... ---

PLASTIC / LAMINATE CUTTER

Olfa Heavy-duty plastic/laminate cutter, designed to produce a fine score line to precisely break plastics, acrylic and laminates. Features built-in room for spare blades, and blade retractable function. Comes with 2 spare blades in handle with shipment .....P/N 12-02973 ..... ---

RATCHET-LOCK UTILITY KNIFE

This heavy-duty knife features an all-over rubber grip for professional comfort and control. An acetone resistant, elastomer handle with a poly-acetate blade-lock makes it an official acetone resistant cutter. It features a ratchet-wheel blade lock and a heavy-gauge stainless steel blade channel that holds blade tight. A new sharp edge with each snap..... P/N 12-03654 ..... ---

FIBERGLASS RUBBER GRIP UTILITY KNIFE

This heavy-duty auto-lock utility knife is a powerful anti-slip utility knife, featuring a professional grade Fiberglass rubber grip and automatic blade lock for maximum comfort and control. Heavy-gauge stainless steel blade channel protects and holds blade tight. Acetone resistant handle for easy cleaning. Built in versatile metal pick for opening paint cans, removing switch plates and more. Easy, tool-free blade change. Includes the double-honed UltraSharp Black snap-blade.....P/N 12-03655 ..... ---

OLFA SNAP BLADE KNIFE

Features a convenient detachable built-in blade snapper/disposal container in a heavy-duty ABS plastic handle. Storage container can hold up to 26 9mm AB blade segments for thousands of cuts before emptying is needed. Easy, tool-free blade change. Blade is made of high-quality Japanese grade carbon tool steel .....P/N 12-03656 .....

CERAMIC CRAFT KNIFE

The Slice craft knife is ideal for precision cutting, scraping, and handling. Its ceramic safety blade is non-sparking, chemically inert, safe to 1600 degrees Celsius, never rusts, and requires no oil coating. With a textured grip for superior control, this precision knife allows the user to make accurate, delicate cuts. Its ambidextrous no-roll design is weighted for balance and stability. Includes one rounded-tip ceramic safety blade with patented finger-friendly edge .....P/N 12-04971 ..... ---

SLICE PRECISION CUTTER

The Slice® Precision Cutter is the perfect tool for crafters who want to cut various materials without worrying about harming themselves or their project .....P/N 12-05634 ..... ---

SELF HEALING ROTARY CUTTING MATS

Self-healing, double-sided large mat protects and covers work. Green, self-healing professional quality rotary mat. Double-sided with yellow grid lines on one side for precision cutting, solid on opposite for general cutting. 1.5mm thick for a variety of applications. Store flat.

24" x 36" .....P/N 12-02403 ..... ---
23" x 70" - with clip set (RM-clips/2) .....P/N 12-02404 ..... ---
35" x 70" - with clip set (RM-clips/3) .....P/N 12-02405 ..... ---

ROTARY CUTTER

Ergonomic 45mm rotary cutter features a unique comfortable handle design for both left- and right-handed use.

Rotary Cutter .....P/N 01-00302 ..... ---
RB45-1 Replacement Blade only .....P/N 01-00300 ..... ---
RB45-1 Replacement Blade pk of 5.....P/N 01-00301 ..... ---
Rotary Pinking Blade.....P/N 12-01709 ..... ---

Good For: general quilting, sewing and craft projects. Great for cutting out patterns, reduces fraying. Can be used in industrial applications.

STAINLESS STEEL SCISSORS

The OLFA stainless steel scissors (7" overall length) are extremely high quality stainless steel blades perfect for precision cutting. Ideal for use on such varied materials as paper, fabrics, plastic, rubber, & aircraft composites. .....P/N 01-00303 ..... ---

MULTIPURPOSE PLASTIC UTILITY KNIFE

Auto-Lock-featured standard-duty model with a pocket clip/blade snapper. For both right- and left-handed uses. Handle and all plastic parts made from 100% recycled materials. Easy disassembly for next recycling.
9mm.....P/N 12-03652 ..... ---

L-2 CUTTER

18MM heavy-duty cutter features a ratchet wheel blade lock, heavy gauge stainless steel blade channel, highest grade carbon tool steel blade and anti-slip rubber grip insert.....P/N 12-00258 ..... ---

NOL-1 CUTTER

Heavy-duty 18mm "HandSaver" Acetone resistant cushion grip with ratchet wheel blade lock and high-carbon tool steel snap-off OLFA blade.
Cutter.....P/N 12-00257 ..... ---

ULTRAMAX CUTTER

Heavy-duty utility knife / cutter is an auto lock cutter includes a stainless steel blade channel with a unique cushion handle provides a comfortable and positive grip.
P/N 12-02367 ..... ---

H-1 CUTTER

25mm Extra heavy-duty cutter features largest blade available, ratchet lock to prevent slipping, rubber grip insert for positive control, and a rope loop to secure cutter to belt or work table.
Cutter.....P/N 12-00259 ..... ---
Replacement blades (5 pack) .....P/N 12-02970 ..... ---

AUTO-LOCK STAINLESS PROFESSIONAL KNIFE

Accomodates both left- and right-handed users. Features locking slide blade, stainless steel handle and built-in pocket clip/blade snapper. A perfect steel cutter where rust is a concern. Lifetime Guarantee.
Cutter.....P/N 12-00339 ..... ---
Replacement blades (10 pack) .....P/N 12-00340 ..... ---

EXTRA HEAVY DUTY RACHET LOCK CUTTER

25mm Extra heavy-duty cutter features: • anti-slip cushion handle for exceptional comfort and safety • chemical resistant handle for easy cleaning • Heavy guage stainless steel blade channel holds blade tight • ratchet wheel blade lock • rope loop • high-quality carbon tool steel snap-off blades for sharpness and durability.
P/N 12-02368 ..... ---

EXTRA HEAVY DUTY SNAP-OFF BLADE

Snap-off black blades, are made from high quality carbon tool steel. Blade container locks for safety. Fits most Extra Heavy-Duty handles. 7 cutting edges per blade.
20 blades per pack.....P/N 12-02369 ..... ---

EXTRA HEAVY DUTY RATCHET LOCK CUTTER

Anti-slip grip cutting tool. Features an automatic blade lock, cushion grip for maximum comfort and control, and a heavy gauge stainless steel blade channel that holds blade tight. Chemical resistant handle for easy cleaning. Includes a pocket clip for convenience, and the premium, ULTRAMAX® ultra sharp durable snap-off blade.....P/N 12-02370 .....

TO

GENERAL SPECIALTY TOOLS

CIRCULAR HOLE CUTTER

General's circle cutters produce precision circles in sheet metal, brass, copper, soft steel, aluminum, plastic, wood and composition materials. Bodies are constructed of heat treated tool steel for durability. All Circle Cutters have replaceable pilot points. The replaceable cutter blades are made of high-speed steel for precise and clean cuts. Circle Cutters are adjustable for cutting variable diameter holes. A hex wrench is included for diameter and depth adjustments.

#4 Cutter.....P/N 12-10600 ..... ---

JEWELERS' SCREWDRIVER KITS

The Screwdriver and Hobby Kit includes five interchangeable blades and a heavy duty knurled handle. Loaded with the most popular jeweler's-sized Slotted and Phillips tips and a scratch awl, this modestly priced set is great for model making and other small-scale applications.

P/N 12-19600 ..... ---

SWIVEL HEAD PIN VISE

The Swivel Head Pin Vise provides fingertip control of small tools when working with jewelry, electronics or models. The double-ended collet offers two distinct sizes for holding a variety of drill bits, reamers and taps. For added control, this Pin Vise has been design with a knurled aluminum body for a sure grip while the swivel head turns smoothly against your palm.

P/N 92 ..... ---

STEEL PROTRACTORS

Trusted by machinists and draftsmen worldwide to deliver crucial measurements with unwavering accuracy. The 6" adjustable arm is ideal for setting bevels, taking measurements and transferring angles. Ultra-fine etched graduations read from 0 to 180 degrees in forward and reverse directions, and will not wear or rub off. Made of ground stainless steel for precision and durability.....P/N 17 ..... ---

POCKET CALIPERS

Although small in stature, these 4" Slide Calipers deliver the same accuracy and precision as some of our larger models. The rugged, stainless steel construction, coupled with a compact design makes these Slide Calipers a great addition to any workbench or toolbox. This item provides inside and outside readings in both 1/16" and 1/32" graduations. In addition, there is a decimal equivalents chart on the caliper's back side for help in making measurement calculations.

16ths & 32nds .....P/N 729 ..... ---

16ths & MM .....P/N 12-01633 ..... ---

DIGITAL FRACTIONAL CALIPER

The Carbon Fiber Digital Fractional Caliper brings you three universal systems of measurement, making it an equally practical choice for both professional and do-it-yourself projects. The high-contrast digital display easily switches between inches, millimeters and fractions, with guaranteed accuracy to 0.001". In addition, the lightweight, non-marring carbon fiber construction delivers accurate readings of inside, outside, step and depth measurements.

3" Caliper.....P/N 12-02307 ..... ---

WIRE STRIPPERS & CUTTERS

Just dial the size and avoid damaging wire, especially when used repetitively. Spring opening jaws can be locked in closed position to protect cutting edges. Made of tool steel, equipped with vinyl cushion grip handles. Individually carded.

P/N 69 ..... ---

FEELER GAGES

Blades are made of tempered steel of exacting tolerances. Each blade has its size printed in both decimals of an inch and millimeters. Nickel plated case has knurled locking nut. No. 230 has 26 3x1/2 in. leaves of the following sizes: .0015, .002, .0025, .003. .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024 and .025 in.

P/N 230 ..... ---

BRASS CALIPERS

For measuring rod diameters, plate thickness, inside and outside of tubing. 4" outside and inside measuring capacity. Heavy guage solid brass. Inside and outside graduations in 16ths and millimeters. Close tolerance dovetail design. Smooth brushed finish with lacquer coating. Finely stamped numbers and graduations.....P/N 12-03782 ..... ---

STEEL RULES

General's industrial quality Steel Rules are precision made with etched fine black graduations for easy reading and long life. The two finishes available are polished stainless steel or satin chrome. Front graduated in 10ths, and 100ths, back in 32nds and 64ths. Quality 12 inch (30cm) flexible stainless steel rule. Precision made. Fine black etched graduations.

6" Long, 15/32" Wide.....P/N 616 ..... ---

PERMANENT ALNICO MAGNETS

These industrial grade Alnico (Aluminum/Nickel/Cobalt) Magnets are built for heavy duty use and will not naturally demagnetize over time like other magnets. They are handy in a plethora of applications and work settings. The horseshoe-shaped Power Alnico Magnets are available in 2 distinct sizes with extraordinarily strong pull capacities ranging up to 13 lbs.

No. 370-1 Pocket Magnet, 3/4 oz., approx. 1 lb. pull

P/N 370-1 ..... ---

WIRE & SHEET METAL GAUGES

#20 WIRE GAUGE - The Wire Gage helps you to accurately determine the thickness of American Standard wire from 0 to 36. The Gage works with all non-ferrous wires, metals and rods such as copper, brass and aluminum. This heavy duty tool is made from hardened and tempered steel, and is stamped with wire sizes on the front and their decimal equivalents on the back

#20 American Standard Wire Gauge - For gauging non-ferrous wire & metal like copper, brass, aluminum, etc.

P/N 12-02384 ..... ---

#21 U.S. STANDARD SHEET METAL GAUGE - The Sheet Metal Gage is for gauging uncoated sheet, plate iron and steel, based on weights in ounces per square foot. gauge numbers are in U.S. Standard. Numbers 0-36 (.325"-.007"). Made of hardened steel, with a satin finish for easy reading. Decimal equivalents on the back side. Measures 3-1/4" in diameter.

P/N 21 ..... ---

SCREWDRIVER HANDLE SCRATCH AWL

If you're looking for a quality, yet economic awl, then check out our Screwdriver Handle Scratch Awl. Featuring a 3-5/8" steel blade and a durable plastic handle, this Scratch Awl makes a great addition to any workbench of toolbox.

P/N 12-01873 ..... ---

UTILITY AUTOMATIC CENTER PUNCH

The Utility Automatic Center Punch is our most economical model, offering a lightweight aluminum body and a hardened steel point. The punch is great for use on various metals and woods, and is impact adjustable.

P/N 12-01874 ..... ---

STAINLESS STEEL AUTOMATIC CENTER PUNCH

Provides accurate center punches to prevent drill bits from traveling. It has a one-hand spring impact operation, no hammer needed. This is used for marking, punching & staking and it has a durable stainless steel body that will not rust .....P/N 12-03515 ..... ---

LOCKING WING ACADEMIC DIVIDER

This 6" drafting compass is most commonly used to measure inside or outside diameters and reproduce circles and arcs. Often used with maps or architecture, the wing divider features a pencil holder to easily plot curves and lines. Lockable wing for repeat measurements.....P/N 12-04896 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

COTTER PIN PULLER

General's Cotter Pin Puller helps you to easily and safely remove steel cotter pins from confined areas. The compound bend design facilitates use of the tool with either a pull or a twist motion. In addition, the heavy duty screwdriver handle provides a familiar, comfortable grip.

P/N 12-01892 ..... ---

PRECISION MAGNETIZER/DEMAGNETIZER

Our Precision Magnetizer and Demagnetizer transforms standard screwdrivers, tweezers and tool bits into powerful magnetic pickups. This dual-sized device can magnetize screwdrivers for installing small screws in jewelry, or demagnetize a set of tweezers for working with sensitive electronics. In addition, the innovative step design allows you to control the level of magnetism that is imposed upon your tools.

P/N 12-01890 ..... ---

ARCH PUNCH SET

Our extensive selection of Arch Punches are machined to close tolerances for creating precise holes in gasket material, rubber and soft metals. These industrial-quality tools are hand forged to ensure the longevity and accuracy of the cutting edge. This seven-piece set includes some of our most popular punch sizes and is conveniently packaged in a vinyl storage pouch.....P/N 12-01891 ..... ---

INSPECTION MIRRORS

12-01887 12-01888 12-01889

General's Inspection Mirrors are known for their seemingly limitless uses both around the home and in the shop. For instance, an Inspection Mirror can be used to check behind an armoire for lost keys or beneath an engine block for a missing bolt. The Inspection Mirrors come in a variety sizes and lengths, and feature dual ball-and-socket joints for infinite angle adjustments of the mirror.

1-1/4 Diam.....P/N 12-01887 ..... ---
2-1/4 Diam.....P/N 12-01888 ..... ---
3-1/2 Oblong.....P/N 12-01889 ..... ---

LED-LIGHTED TELESCOPING INSPECTION MIRROR

2 extra bright LED lights facilitate the inspection of hard-to-see and hard-to-reach areas. Easily peer into the dark crevices of your work space in search of leaks, breaks or lost tools. Telescoping shaft extends to 33 in. (840mm). Fully polished, shatter-resistant glass mirror sits on a 360° swivel, double ball joint for accurate positioning and infinite angle adjustments. Non-slip cushion grip. CE Approved.

Round Mirror.....P/N 12-03197 ..... ---
Rectangular Mirror.....P/N 12-03199 ..... ---

TELESCOPING ALLIGATOR CLIP

The Telescoping Alligator Clip is often used as a third-hand tool in electrical repair for holding and positioning wires. It is also commonly employed around the home for lighting pilot lights and barbeques. The extendable shaft reaches up to 24-1/2" for working in cramped areas, or to provide a safety buffer for lighting a gas grill or furnace. The tool condenses to 5-1/2" and is equipped with pocket clip for those on the go.....P/N 12-01884 ..... ---

DECAL ERASER WHEEL

For quick and easy removal of decals, pinstripes, bumper stickers, reflective tapes etc from glass and OEM painted surfaces without any damage. Also very effective in removing adhesive tapes and glue from the back of moldings. Best result at 1500 - 3000 rpm. Let the wheel do the work, apply light pressure only. Start at the top of the decal and move side to side. For faster results, use entire width of the wheel, do not tilt on angle. Remove any residue with appropriate mild solvent. Natural Rubber. Diameter: 4 Inch. Width: 1 Inch. Max RPM: 4000 Universal arbor, no special tool needed. Use with electric or pneumatic tools.....P/N 12-02401 ..... ---

REVOLVING PUNCH

General's revolving punch plier is a convenient spring tension, self-opening tool for punching round holes in leather, plastic, rubber, canvas, cardboard and similar materials. The snap ring pliers are used for the installation or removal of exterior and interior snap rings. Revolving turret with six hardened steel punches: 5/64", 3/32", 7/64", 1/8", 5/32", and 3/16" .....P/N 72 ..... ---

5PC EXTRA LONG DRIVE PIN PUNCH SET

These Drive Pin Punches have been machined to exacting tolerances for accurate driving without damaging the pin or hole. The punch ends are ground square to sit flush on the top of the pin. Made of hardened tool steel with a knurled body, General's Drive Pin Punches can either be held by hand or with our Punch and Chisel holder. This five-piece set features extra-long 3-1/2" shafts for reaching deeply recessed pins.

P/N 12-01875 ..... ---

5-PC PRECISION ULTRAREACH STAR SCREWDRIVER SET SLOTTED & PHILLIPS

These UltraTech Precision Screwdriver Sets were assembled in conjunction with industry tradesmen to offer the most comprehensive and reliable solutions. This five-piece set includes Slotted and Phillips screwdrivers in two distinct handle sizes. The color-coded ring on each screwdriver helps you to easily identify the blade type when working arduously in the field.

P/N 12-01881 ..... ---

5-PC PRECISION ULTRAREACH STAR SCREWDRIVER SET

These UltraTech Precision Screwdriver Sets were assembled in conjunction with industry tradesmen to offer the most comprehensive and reliable solutions. This five-piece Torx set features a great assortment of blades in two distinct handle sizes. The color-coded ring on each screwdriver helps you to easily identify the blade type when working arduously in the field.

P/N 12-01882 ..... ---

PICK AND HOOK 4 PIECE SET

Get into tight places to retrieve small parts, "O" rings, and gaskets. Great for household and hobby use. Includes straight pick, 90° pick, 120° hook, and round angle hook. High-visibility handles. Screwdriver-style handles give better control. Specifications: Includes straight pick, 90° pick, 120° hook, and round angle hook, High-visibility handles, Screwdriver-style handles give better control, 5-1/4" average length, Handle: 5/8" square, 2-1/2" L, Approximate weight: 0.20 lbs.....P/N 12-02642 ..... ---

BULLSEYE PICKS

The bullseye pick was originally used in the dent repair/collision trade, but also works great for restoration work. These are ideal to reach in around the edge of a panel, around a gusset, or into a blind area to repair the dent from the backside. By sighting the low area through the open sight, the tool will deliver accurate light blows to raise the low area. This tool includes both a regular pick and a blunt tip. The blunt tip works great for aluminum and prevents unattractive pick marks in the metal.

15" .....P/N 12-02292 ..... ---
25" .....P/N 12-02293 ..... ---

THREAD REPAIR FILE

The Thread Repair Files help breathe life back into bolts, screws or fittings that have been damaged due to cross-threading or corrosion. Made of high carbon steel, the Repair Files offer eight different thread pitches. In addition, the Thread Repair Files can also be used as a screw pitch gage.....P/N 12-01879 ..... ---

PRECISION PENCIL COMPASS

The Precision Pencil Compass is a robust scribing and marking tool with a jaw capacity of up to 9". The fulcrum spring handle makes this tool great for making contours, circles and edge marks. A carpenter's favorite.

P/N 12-01872 ..... ---

LIGHTED MAGNETIC PICK UP

Powerful Bright White LED Flexible Obedient Gooseneck. Heavy-duty Anodized Aluminum Body Magnet easily lifts 3 lbs. (1360g) Telescopes from 6 in. to 14 in. (152 – 356mm) 3 "LR44" batteries included .....P/N 12-03783 ..... ---

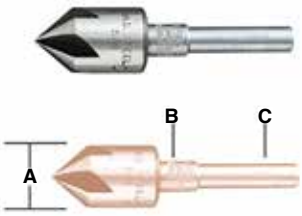
TO

M-4 PIPER / CESSNA / MOONEY TAPER PIN TOOL

Sweating the Piper Control Wheel AD? Relax, this patent pending M-4 tool makes the hardest part of compliance with this AD easy. This specialty tool was designed to counter the frustration of removing the Piper control wheel taper pin. With the aid of the M-4 tool even the most stubborn taper pin can be removed in minutes, not hours, without vibration or stress being induced on your aircraft or the surrounding delicate instruments and avionics. The tool is self-indexing, locking the taper pin in position and securing itself in place for easy pin removal. Quality made in the USA and precision milled from bar stock for maximum strength, the body is Cad Plated for corrosion resistance and the press screw is Grade 8 to assure long life. The tool is shipped with detailed instructions.

P/N 12-02620 ..... ---

5 FLUTE ROSE PATTERN COUNTERSINKS



Designed with the perfectionist in mind, these Rose Pattern Countersinks are a must have for any close-tolerance woodworking or machinist project. The 5-flute design reduces chatter and easily pierces steel, brass, aluminum, plastic and wood. The stepped shank can be used with either a 1/4" or 3/8" chuck.

A	B	C	PN	Price
1/2"	3/8"	1/4"	12-01863	---

6 INCH CONTOUR GAGE

General's 6" Contour Gage is designed for precise surface duplication in woodworking, fine carpentry and other professional genres. The 35 ultra-thin leaves per inch assure that you are getting an exact replication of your copied shape. The Contour Gage is capable of duplicating surfaces up to 3-1/2" deep. Instructions: 1. Press Contour Gage against surface to be copied. 2. Trace the formed contour gage onto your cutting material. 3. Cut the material. 4. Fit into place

P/N 12-01870 ..... ---

ENGRAVER FOR WOOD AND METAL

• Perfect tool for engraving in plastic, metal, glass, ceramic, leather, wood, and more • Depth-adjustment dial helps control the length of the engraver's stroke • 13-watt motor provides up to 7,200 strokes per minute • Lightweight 9 oz design combines with the soft-touch grip for easy handling • Includes a two-piece stencil set and a tungsten carbide tip for powerful and reliable engraving.

P/N 12-05429 ..... ---

PLAIN TAP WRENCHES

The standard Tap Wrenches are perfect for creating straight and accurate thread holes in your work piece. The fixed T-Handle provides a large gripping surface for generating maximum leverage. This versatile tool can also be used with reamers, drill bits, screw extractors and other hand-turned tools.

Tap Capacity	Length	Part No.	Price
NO. 0 TO 1/4" (1.6 TO 6.3mm)	2-1/4" (57mm)	12-01877	---
NO. 12 TO 1/2" (6 TO 12mm)	3-3/4" (95mm)	12-01878	---

RATCHET OFFSET SCREWDRIVER

An Offset Ratchet Screwdriver is a useful tool to have on hand as it provides greater leverage compared to a traditional screwdriver. The swift ratcheting motion allows you to remove and install screws with ease, and the offset head provides odd-angle access in obstructed areas. This item features two Slotted screwdriver blades and a reversible ratchet. .....P/N 12-01883 ..... ---

CESSNA SEAT RAIL GAUGE

Allows for quick limit checking of seat rail hole and wear dimensions Gage elements are made from heat treated blue tempered steel Each element is marked to correspond to the limits set forth in the relevant ad The three gage elements are linked together on a universal spiral key ring.

P/N 12-01056 ..... ---

LIGHTED POWER PRECISION SCREWDRIVER

These lighted cordless precision screwdriver (502) from general tools & instruments (general) is a first-of-its-kind tool that can handle all of those difficult, repetitive fastening jobs involving tiny screws in tight spaces where it is difficult to see. it s perfect for on-the-go technicians and anyone who works with small parts and micro assemblies. Super Bright LED Light 6+ Hours of Power 100+ RPM Super-Torque Drive Cordless (2 AAA alkaline batteries included) .....P/N 12-03517 ..... ---

REPLACEMENT BLADE OIL CAN CUTTER

General Tool's Gold Standard Cutting Wheels are made from tempered, bearing tool steel for smooth, exact pipe cuts. The slim-line surface geometry ensures fewer inner surfaces burrs and less chance for outer surface distortion. The RW122 is designed for larger capacity cutters on iron pipe and other tough surfaces.

P/N 12-01159 ..... ---

CUTTER PLUG WOODWORKING

General's Plug Cutters produce accurate plugs for covering screw holes in decking, flooring and fine furniture. Plug cutters are great for creating a decorative effect in any woodworking project and can also be used to repair nicks, scratches and dents. Each cutter is made from hardened alloy steel and will fit in both hand-held power drills and drill presses.

3/8.....P/N12-01866 ..... ---
1/2.....P/N 12-01867 ..... ---
5/8.....P/N 12-01868 ..... ---

AARC BEARING GREASE PACKER

The Quick, Easy, Efficient way to Grease Wheel Bearings! Experience has shown that the inspection and cleaning of wheel bearings is time consuming and messy. Likewise, the AARC Bearing Packer utilizes similar principles to hand pressurize grease through the individual roller bearings for a complete – total – pack of the bearings. The use of the cone or the plates assures that the grease totally encompasses the rollers in grease. This simple method is accomplished quickly with minimal waste.

P/N 12-03753 ..... ---

AARC BEARING CLEANER

The Quick, Easy, Efficient way to Grease Wheel Bearings! Experience has shown that the inspection and cleaning of wheel bearings is time consuming and messy. The AARC Bearing Cleaner was developed to expedite this process by using a system designed to aggressively flush cleaning solvent through the roller bearings to loosen and rinse the accumulated worn grease from the bearings. This cleans the rollers, making inspection more efficient.....P/N 12-03754 ..... ---

JOGGLE-360 FABRICATION TOOL

Noah Industries has introduced the Joggle-360 into its lineup of innovative metal aircraft fabrication tools. The Joggle-360 will joggle round openings for inspection plates with joggle widths up to 0.562 inch and straight joggle offsets up to 0.625 inch. The tool features hardened steel rollers that form the joggle while gliding around the opening or along the edge by ball bearings that eccentrically adjust for joggle width.

Instruction:

1. Adjust the guide rollers to the desired set back or width of joggle by rotating the Eccentric Guide Roller Adjustment Screws with an Allen wrench.
2. Place the Joggle-360 onto the work that you are going to joggle and tighten the Tension Knob.
3. For straight joggles, run the Joggle-360 back and forth along the work tightening the Tension Knob as required until you achieve the desired joggle depth. Joggling a hole is the same process. Be sure to keep the Guide Rollers in contact with the edge of your work.
4. When the joggle is finished, loosen the Tension Knob and remove the tool from from your work.

Note: You may need to tighten the Eccentric Lock Screws from time to time in order to keep the Eccentric Guide Rollers from rotating during use.

P/N 12-02252 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

KNIPEX PRECISION-SNAP-RING PLIERS SET

Contains common Precision Circlip Pliers for highest requirements in sturdy plastic packaging, also suitable for storage of the pliers. From 12-25 to 19-60 Straight Tip and 12-25 to 60 Bent Tip.

P/N 15-08431 ..... ---

KNIPEX HIGH LEVERAGE COMBINATION PLIERS

35 % less effort required than with conventional combination pliers easier work due to optimised leverage with cutting edges (hardness approx. 63 HRC) for soft and hard wire and piano wire. Long cutting edges for thicker cables with gripping zones for flat and round material, suitable for versatile use. High-grade special tool steel, forged, oil-hardened, 200mm length. 8 inch.

8 inch Pliers(pictured).....P/N 15-08432 ..... ---
8 inch Pliers with Comfort Grip.....P/N 15-08433 ..... ---

KNIPEX COMBINATION PLIERS

Gripping zones for flat and round material, suitable for versatile use with cutting edges for soft and hard wire. Long cutting edges for thicker cables cutting edges additionally induction hardened, cutting edge hardness approx. 60 HRC Special tool steel, forged, oil-hardened, 8 inch.....P/N 15-08434 ..... ---

KNIPEX HIGH LEVERAGE COMBINATION PLIERS COMFORT GRIP

Gripping zones for flat and round material, suitable for versatile use with cutting edges for soft and hard wire. Long cutting edges for thicker cables cutting edges additionally induction hardened, cutting edge hardness approx. 60 HRC Special tool steel, forged, oil-hardened, 6.25 inches.

P/N 15-08435 ..... ---

KNIPEX DIAGONAL CUTTERS

The indispensable diagonal cutter for all-round use with high quality material and precise workmanship for long service life. Precision cutting edges for soft and hard wire, clean cutting of thin copper wires, also at the cutting-edge tips cutting edges additionally induction hardened, cutting edge hardness approx. 62 HRC narrow head style for use in confined areas. Vanadium electric steel; forged, oil-hardened, 7.25 inches.

7.25 inch Pliers (pictured).....P/N 15-08436 ..... ---
7.25 inc Pliers with Comfort Grip.....P/N 15-08437 ..... ---

KNIPEX COBRA PLIERS QUICK SET STYLE

Adjustment at the touch of a button directly on the work piece with fine adjustment for optimum adaptation to different sizes of work pieces and a comfortable handle width. Self-locking on pipes and nuts: no slipping on the work piece and low hand force required. 61 HRC: low wear and stable gripping. Just position the upper jaw to the workpiece, push button and move close the lower jaw, ingeniously simple. 10 Inch

P/N 15-08438 ..... ---

KNIPEX AUTO ADJUSTING WATER PUMP PLIERS

Automatic adjustment per one-hand operation both for right-handed and left-handed use with good access to the workpiece thanks to the slim dimensions in the head and joint area and flush joint bolt. Self-locking on pipes and nuts: no slipping on the workpiece and low handforce required. Gripping surfaces with special hardened teeth, teeth hardness approx.

61 HRC: low wear and stable gripping box-joint design: high stability because of the double guide. Guard prevents operators' fingers being pinched and locking lever for space saving transport with reliable closed handles. Chrome vanadium electric steel, forged, oil-hardened 10 inch.

P/N 15-08439 ..... ---

KNIPEX PLIERS WRENCHES

Adjustable tightening tool, also excellent for gripping, holding, pressing and bending work pieces. Replaces the need for sets of metric and imperial spanners, with smooth jaws for damage free installation of plated fittings Zero backlash jaw pressure prevents damage to edges of sensitive components. Adjustment at the touch of a button directly on the work piece and parallel jaws give a more solid grip; the construction gives infinite adjustment of all widths up to the specified maximum size.

6 Inch.....P/N 15-08440 ..... ---
7.25 Inch.....P/N 15-08441 ..... ---
10 Inch.....P/N 15-08442 ..... ---
12 Inch.....P/N 15-08443 ..... ---

KNIPEX PLIERS WRENCH-COMFORT GRIP

Adjustable tightening tool, also excellent for gripping, holding, pressing and bending work pieces. Replaces the need for sets of metric and imperial spanners, with smooth jaws for damage free installation of plated fittings Zero backlash jaw pressure prevents damage to edges of sensitive components. Adjustment at the touch of a button directly on the work piece and parallel jaws give a more solid grip; the construction gives infinite adjustment of all widths up to the specified maximum size.

6 Inch.....P/N 15-08444 ..... ---
7.25 Inch.....P/N 15-08445 ..... ---
10 Inch.....P/N 15-08446 ..... ---

KNIPEX COBRA PLIERS

Adjustment at the touch of a button directly on the work piece with fine adjustment for optimum adaptation to different sizes of work pieces and a comfortable handle width. Self-locking on pipes and nuts: no slipping on the work piece and low hand force required. Gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC. Box-joint design. Reliable catching of the hinge bolt: no unintentional shifting and guard prevents operators' fingers being pinched. Chrome vanadium electric steel, forged, oil-hardened. Pliers Pictured are without the comfort grip. Pictured without Comfort Grip.

5 inch.....P/N 15-08447 ..... ---
6 inch.....P/N 15-08448 ..... ---
7.25 inch.....P/N 15-08449 ..... ---
7.25 inch with Comfort Grip.....P/N 15-08452 ..... ---
10 inch.....P/N 15-08450 ..... ---
10 inch with Comfort Grip.....P/N 15-08453 ..... ---
12 inch.....P/N 15-08451 ..... ---
12 inch with Comfort Grip.....P/N 15-08454 ..... ---

KNIPEX ALLIGATOR PLIERS

More output and comfort compared to conventional water pump pliers of the same length: 9-notch adjustment positioning for 30 % more gripping capacity. Self-locking on pipes and nuts. Gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC. Box-joint design. Particularly suitable for outdoor work. Guard prevents operators' fingers being pinched. Chrome vanadium electric steel, forged, oil-hardened. Pictured without Comfort Grip.

7.25 inch.....P/N 15-08455 ..... ---
7.25 inch with Comfort Grip.....P/N 15-08458 ..... ---
10 inch.....P/N 15-08456 ..... ---
10 inch with Comfort Grip.....P/N 15-08459 ..... ---
12 inch.....P/N 15-08457 ..... ---
12 inch with Comfort Grip.....P/N 15-08460 ..... ---

KNIPEX 3PC UNIVERSAL PLIERS SET & ALLIGATOR PLIERS

This 3pc Professional Pliers Set includes: Angled High Leverage Diagonal Cutter 8", Knipex Alligator Water pump Pliers 10", Long Nose Pliers with Cutter 8".

P/N 15-08461 ..... ---

KNIPEX 3PC COBRA PLIERS SET

Knipex 3pc Cobra Pliers Set 7", 10", 12". Adjustment at the touch of a button directly on the work piece with fine adjustment for optimum adaptation to different sizes of work pieces and a comfortable handle width. Self-locking on pipes and nuts. Gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC. Box-joint design. Reliable catching of the hinge bolt. Chrome vanadium electric steel, forged, oil-hardened....P/N 15-08462 ..... ---

KNIPEX 3 PC ALLIGATOR PLIERS SET

Knipex 3pc Alligater Water pump Pliers 7", 10", 12". More output and comfort compared to conventional water pump pliers of the same length. Self-locking on pipes and nuts. Gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC. Box-joint design. Particularly suitable for outdoor work. Guard prevents operators' fingers being pinched. Chrome vanadium electric steel, forged, oil-hardened.

P/N 15-08463 ..... ---

KNIPEX 3PC UNIVERSAL PLIERS SET & COBRA PLIERS

This 3pc Professional Pliers Set includes: Angled High Leverage Diagonal Cutter 8", Knipex Cobra Water pump Pliers 10", Long Nose Pliers with Cutter 8".....P/N 15-08464 ..... ---

KNIPEX 2 PC MINI PLIERS WITH BELT POUCH

Knipex 2pc Mini Pliers Set includes: Knipex Pliers Wrench 6", Knipex Cobra Pliers Wrench 5".

P/N 15-08465 ..... ---

TO

AIRCRAFT GRADE SUPER COBALT DRILLS

These super cobalt hi-speed jobber length aircraft drill bits feature heavy duty construction to Type J aircraft specifications. Use to drill hard, tough metals, stainless steels, iron based and titanium alloys, and certain plastics. Hardness of cobalt permits speeds 30% over regular H.S.S. drills. Cobalt drills demand rigidly held, positive feed drilling equipment.

Part No.	Drill Size	Price Ea.
12-03791	55	---
12-03698	51	---
12-03792	44	---
12-04212	42	---
12-04213	41	---
12-04214	40	---
12-04215	36	---
12-04216	33	---
12-03793	37	---
12-04217	30	---
12-04218	28	---
12-04219	27	---

Part No.	Drill Size	Price Ea.
12-04220	23	---
12-14221	21	---
12-04221	19	---
12-04222	12	---
12-04223	10	---
12-04224	"D"	---
12-04225	1/8"	---
12-04226	5/32"	---
12-04227	3/16"	---
12-04228	1/4"	---
12-04229	5/16"	---
12-04235	#35	---

12" LONG DRILL BITS

These 12" long drill bits are for use with standard electric drills for the hard to reach jobs.

Drill	Size	Part No.	Price
3/32"	(.094")	12-05200	---
1/8"	(.125")	12-05300	---
3/16"	(.188")	12-05400	---
#10	(.194")	12-05500	---
1/4"	(.250")	12-05600	---

MALE THREADED DRILL BITS

Male threaded drill bits of high speed steel screw into female spindle of angle drill or snake drill.

Drill	10-32 Thread		1/4-28 Thread	
Size	Part No.	Price	Part No.	Price
#10	12-05701	---	12-05702	---
#20	12-05801	---	12-05802	---
#21	12-05901	---	12-05902	---
#30	12-06001	---	12-06002	---
#40	12-06101	---	12-06102	---

ANGLE DRILL ATTACHMENT

Quickly connects to any drill chuck. Makes a convenient, inexpensive close-quarter tool. 3/16 drill capacity.

Specify threaded spindle size: 5/16-24 (P/N 12-18503), 1/4-28 (P/N 12-18501) or 10-32 (P/N 12-18502).....---

Angle Drill w/ Key Chuck (1/4-28 Only).....P/N 12-18511 .....---

SNAKE DRILL ATTACHMENT

Heavy-duty 90° flexible drilling attachment. Overall length 26". 3 Female threaded spindle sizes.

1/4-28 .....P/N 12-06500 ..... ---

10-32.....P/N 12-06600 ..... ---

w/key chuck (5/32"cap) ..P/N 12-06800 ..... ---

CONE JAW CHUCK

Heavy duty yet mini size fits any angle drill or attachment with 1/4" x 28 threads. It's just what you need for close quarter drilling. **Features**: • Capacity from 1/16" to 1/4" 3/4" length, 0.13 lbs • Wrench included.

P/N 12-00245 .....---

ANGLE DRILL COLLET & CHUCK KIT

This 10-piece kit gives you 3 different methods of drilling in tight spots. Each shank is 1/4" x 28 which will thread into most drill spindles that angle attachments and angle drills are supplied with. 0.25 lb. **Kit Includes**: • (4) #200 collets & adapters - drill sizes 11, 21, 30, & 40 • (4) threaded drill bits (1-1/4" length) - drill sizes: 10,21,30,40 • (1) Cone jaw chuck

Model TP258 .....P/N 12-00368 ..... ---

TAP EXTRACTOR SETS

Remove broken taps and save the threads! Walton Tap Extractors let you remove broken taps without drilling, lasers, damaged threads, scrapped parts or repair inserts. The hardened steel fingers of Walton Tap Extractors fit in the flutes of a broken tap to back it out simply and safely. This effective method has been used since 1908. They are available in every tap size, both inch and metric, as handy sets or individual pieces. The Tap Extractors will fit both NC and NF taps. Sizes: 3/16", 1/4",5/16",3/8",7/16",1/2" P/N 12-02352 ..... ---

HAND THREAD TAPS

There are three basic types of straight thread taps:

PLUG TAPS – used for ordinary threading and have a 3 to 5-thread chamfer, or relief, at the point.

TAPER TAPS – have 8 to 10 threads chamfered for easy starting and are used for tough threading jobs.

BOTTOMING TAPS – with their short chamfer (1 to 1-1/2 threads), are used where the thread must go to the bottom of the hole.

Specify Plug, Taper or Bottoming Tap.

PLUG TAPS				
Die Size	Left-Hand		Right-Hand	
6-32	12-07601	---	12-07701	---
8-32	12-07801	---	12-07901	---
10-32	12-08001	---	12-08101	---
1/4-28	12-08201	---	12-08301	---
5/16-24	12-08401	---	12-08501	---
3/8-24	12-08601	---	12-08701	---

TAPER TAPS				
Die Size	Left-Hand		Right-Hand	
6-32	12-07602	Call for price and availability special order	12-07702	---
8-32	12-07802		12-07902	---
10-32	--		12-08102	---
1/4-28	12-08202		12-08302	---
5/16-24	12-08402		12-08502	---
3/8-24	--		12-08702	---

BOTTOMING TAPS (HIGH-SPEED STEEL)				
Die Size	Left-Hand		Right-Hand	
6-32	--	Call for price and availability special order	12-07703	---
8-32	--		12-07903	---
10-32	12-08003		12-08103	---
1/4-28	--		12-08303	---
5/16-24	--		12-08503	---
3/8-24	--		12-08703	---

DRILLING & TAPPING SETS

13-Piece drilling and tapping set made from special high speed steel. Contains 6 screw machine length drill bits (Nos. 43, 35, 29, 25, 21 and 7), 16 NC taps (4-40, 6-32, 8-32, 10-24, 10-32 and 1/4-20) and one tap wrench. Choice of 135° split point or spiral point drill bits. Set with Split-Point Drill Bits.....P/N 41095 ..... ---

ADJUSTABLE ROUND SPLIT DIES

Die Size	Die Dia.	Left-Hand		Right-Hand	
6-32	13/16"	12-07001	---	12-07002	---
8-32	13/16"	12-07101	---	12-07102	---
10-32	13/16"	12-07201	---	12-07202	---
1/4-28	1"	12-07301	---	12-07302	---
5/16-24	1"	12-07401	---	12-07402	---
3/8-24	1"	12-07501	---	12-07502	---

ROUND "KNOCK-OUT" PUNCHES & DIES

Save hours of tedious drilling, sawing, filing and hand-fitting. Produce clean, true holes for sockets, controls, instruments. Cut clean, burr-free holes with these easy-to-use tools. Can be operated by ordinary wrench. One punch required for each hole size.

Punch Size	Model 730 P/N	Price
1/2"	12-20905	---
5/8"	12-20910	---
3/4"	12-20915	---
1"	12-20925	---
1-7/32"	12-20935	---
1-1/4"	12-20940	---

Punch Size	Model 730 P/N	Price
1-1/2"	12-20950	---
1-5/8 "	12-20955	---
2"	12-20970	---
2-1/4" 304AVBB	12-20975	---
3-1/8"	12-20980	---

ROUND DIE STOCK HANDLES

For holding adjustable round split dies. Three set screw pattern. Single piece construction. Die diameter 1" or 13/16".

13/16" .....P/N 12-04875 ..... ---

1" .....P/N 12-04876 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

DRILL BITS

CARBIDE DRAGGER DRILL BITS

Reference NAS 965 specification with special geometry for drilling composite and composite stack ups.

Size	Carbide	4" Part No.	Price	6" Part No.	Price
#40	3000-0980	12-04547	---	---	---
1/8	3000-1285	12-04549	---	12-04552	---
#21	3000-1590	12-04551	---	12-04552	---
#13	3000-1875	12-04553	---	12-04554	---
#11	3000-1935	12-04555	---	12-04556	---
#2	3000-2210	12-04557	---	---	---
1/4	3000-2500	--	---	---	---
G	3000-2610	--	---	12-04560	---

HSS EXTENSION DRILL BITS

NAS 907 Type "B" and Type "J" 135° Split Point
These aircraft extension drills are manufactured to provide long life. Our cobalt drills are used for drilling in tough, high tensile strength materials like stainless steel titanium and inconel. A heavy duty flute design is incorporated and a 135° split point.

Size	Length	Part No.	Price
3/32	6 inches	12-04202	---
40		12-04204	---
1/8		12-04234	---
#30		12-04236	---
#21		12-04247	---
#10		12-04260	---
1/4		12-04274	---
3/32	12 Inches	12-04391	---
40		12-04393	---
1/8		12-04404	---
#30		12-04405	---
#21		12-04417	---
#10		12-04430	---
1/4		12-04444	---

VISIT WWW.AIRCRAFTSPRUCE FOR A FULL LIST OF AVAILABLE SIZES.

COBALT EXTENSION DRILL BITS

Size	Length	Part No.	Price
3/32	6 inches	12-04307	---
40		12-04309	---
1/8		12-04320	---
#30		12-04321	---
#21		12-04332	---
#10		12-04345	---
1/4		12-04359	---
3/32	12 Inches	12-04476	---
40		12-04478	---
1/8		12-04489	---
#30		12-04490	---
#21		12-04501	---
#10		12-04514	---

VISIT WWW.AIRCRAFTSPRUCE FOR A FULL LIST OF AVAILABLE SIZES.

HSS 1/4-28 MALE THREADED DRILL BITS

High Speed Steel
- Type B Threaded Hex Shank HSS Adaptor
- Drill - NAS 965 1/4-28 UNF Class 2A Thread
- Surface Treated-Steam Oxide
- Drills are manufactured to NAS 965 Type B construction.
- High Speed Steel drills are for drilling general to medium duty, low tensile strength materials in confined areas.

Size	Length	Part No.	Price
3/32	1/2 inch	12-04065	---
#40		12-04066	---
1/8		12-04077	---
#30	9/16 inch	12-04078	---
5/32		12-04087	---
#21		12-04089	---
#10		12-04103	---
#9	5/8 inch	12-04104	---
13/64		12-04107	---
7/32		12-04112	---
1/4		12-04120	---
3/32	1 inch	12-03941	---
#40		12-03942	---
7/64		12-03947	---
1/8		12-03954	---
#30	1-1/4 inch	12-03955	---
5/32		12-03964	---
#21		12-03966	---
#10		12-03979	---
3/32	2-1/8 inch	12-03814	---
#40		12-03815	---
1/8		12-03826	---
#30		12-03827	---
#21		12-03838	---

VISIT WWW.AIRCRAFTSPRUCE FOR A FULL LIST OF AVAILABLE SIZES.

COBALT 1/4-28 MALE THREADED DRILL BITS

Cobalt
- Type D Threaded Square Shank Cobalt Adaptor
- Drill NAS 965 1/4-28 UNF Class 2A Thread
- Surface Treated-Steam Oxide
- Drills are manufactured to NAS 965 Type D construction.
- Cobalt drills are for drilling hard, tough, high tensile strength materials in confined areas.

Size	Length	Part No.	Price
3/32	1/2 inch	12-04127	---
#40		12-04128	---
#30	9/16 inch	12-04140	---
5/32		12-04149	---
#21		12-04151	---
#10		12-04166	---
5/16	3/4 inch	12-04187	---
3/8		12-04188	---
3/32	1 inch	12-04004	---
#40		12-04005	---
7/64		12-04010	---
1/8		12-04016	---
#30	1-1/4 inch	12-04017	---
5/32		12-04026	---
#21		12-04028	---
#10		12-04041	---
3/32	2-1/8 inch	12-03875	---
#40		12-03876	---
1/8		12-03887	---
#30		12-03888	---
#21		12-03899	---

VISIT WWW.AIRCRAFTSPRUCE FOR A FULL LIST OF AVAILABLE SIZES.

TO

COBALT DRILL BIT SETS

COBALT DRILL BIT SET 1-60 PIECES

Numbered 1 - 60 Drill Bit Set Cobalt. Tired of always looking for that drill bit you desperately need? Now you can have all of them right at you fingertips. All Index boxes are the highest quality made. Made in the U.S.A. 60 total pieces plus index box. 135 degree split point (**Note**: Bits smaller than .0625 have no split point) .....P/N 12-05110 ..... **---**

COBALT DRILL BIT SET 1/16-1/2 INCH 29 PIECES

Fractional 1/16" - 1/2" 60 Drill Bit Set Cobalt. Tired of always looking for that drill bit you desperately need? Now you can have all of them right at you fingertips. All Index boxes are the highest quality made. Made in the U.S.A. 29 total pieces plus index box. 135 degree split point
P/N 12-05111 ..... **---**

DRILL BIT SET A-Z COBALT 26 PIECES

Letters A - Z Drill Bit Set Cobalt.. Tired of always looking for that drill bit you desperately need? Now you can have all of them right at you fingertips. All Index boxes are the highest quality made. Made in the U.S.A. 26 total pieces plus index box. 135 degree split point
P/N 12-05112 ..... **---**

DRILL BIT COMBO COBALT ALL BITS 115 PIECES

Combo Set Includes Cobalt: Numbers, Letters & Fractional. Tired of always looking for that drill bit you desperately need? Now you can have all of them right at you fingertips. All Index boxes are the highest quality made. Made in the U.S.A. Complete set in Index Box. 135 degree split point (**Note**: Bits smaller than .0625 have no split point)
P/N 12-05113 ..... **---**

DRILL BIT SET 1-60 NUMBERS HIGH SPEED

Numbered 1 - 60 Drill Bit Set High Speed. Tired of always looking for that drill bit you desperately need? Now you can have all of them right at you fingertips. All Index boxes are the highest quality made. Made in the U.S.A. 60 total pieces plus index box. 135 degree split point (**Note**: Bits smaller than .0625 have no split point) P/N 12-05114 ..... **---**

DRILL BIT SET 1/16-1/2 INCH FRACTIONS 29 PIECES

Drill Bit Set Fractions 1/16-1/2 High Speed. Tired of always looking for that drill bit you desperately need? Now you can have all of them right at you fingertips. All Index boxes are the highest quality made. Made in the U.S.A. 29 total pieces plus index box. 135 degree split point (**Note**: Bits smaller than .0625 have no split point) P/N 12-05115 ..... **---**

DRILL BIT SET A-Z HIGH SPEED USA 26 PIECES

Letters A - Z Drill Bit Set High Speed. Tired of always looking for that drill bit you desperately need? Now you can have all of them right at you fingertips. All Index boxes are the highest quality made. Made in the U.S.A. 26 total pieces plus index box. 135 degree split point (**Note**: Bits smaller than .0625 have no split point) .....P/N 12-05116 ..... **---**

DRILL BIT COMBO HIGH SPEED ALL BITS 115 PIECES

Combo Set Includes High-Speed: Numbers, Letters & Fractional. Tired of always looking for that drill bit you desperately need? Now you can have all of them right at you fingertips. All Index boxes are the highest quality made. Made in the U.S.A. Complete set in index box. 135 degree split point (**Note**: Bits smaller than .0625 have no split point)
P/N 12-05117 ..... **---**

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

DRILL BIT SET – SIZES 1-60

This jobber length drill bit set includes high speed steel (HSS) drill bits in sizes 1-60. The set comes complete with a steel storage box. Ideal as a pre-drill for tapping of holes and for many other aircraft building applications .....P/N 12-00227 .....

29-PC BRITE FLUTE DRILL SET

This 118° point, high speed steel (HSS) drill set performs well in a wide variety of drilling applications. It is recommended for non-ferrous metals, wood, and plastics. Set includes 29 pcs (1/16 to1/2" in 64ths) in metal index.....P/N 12-00537 ..... ---

115-PC HSS JOBBER LENGTH DRILL SET

This 118° point, high speed steel (HSS) drill set performs well in a wide variety of drilling applications. It is recommended for non-ferrous metals, wood, and plastics. Set includes 115 pcs (1/16 to1/2" by 64ths and #1-60 and A-Z in metal index).

P/N 12-00536 ..... ---

STRAIGHT FLUTE CARBIDE DRILLS

For use on hardened, treated, and abrasive materials, stainless steel, cryogenic alloys.

Part No.	Cutting Dia.	Decimal Equiv.	Flute Length	Overall Length	Price
12-00538	13/64	.2031	1-3/16	2-1/4	---
12-00539	7/32	.2188	1-1/4	2-3/8	---
12-00540	1/4	.2500	1-3/8	2-1/2	---
12-00541	9/32	.2812	1-1/2	2-11/16	---
12-00542	5/16	.3125	1-5/8	2-13/16	---
12-00543	3/8	.3750	1-13/16	3-1/8	---
12-00544	1/2	.5000	2-1/4	3-3/4	---
12-00545	1/8	.1250	7/8	1-7/8	---
12-00546	9/64	.1406	15/16	1-15/16	---
12-00547	5/32	.1562	1	2-1/16	---
12-00551	3/16	.1875	1-1/8	2-3/16	---

CARBIDE TWIST DRILLS

For use on non-ferrous alloys, cast iron, plastics, aluminum, and highly abrasive materials

Part No.	Cutting Dia.	Decimal Equiv.	Flute Length	Overall Length	Price
12-00579	1/16	.0625	3/4	1-1/2	---
12-00580	5/64	.0781	7/8	1-3/4	---
12-00581	3/32	.0938	1	2	---
12-00582	7/64	.1094	1-1/4	2-1/4	---
12-00583	1/8	.1250	1-1/4	2-1/4	---
12-00585	5/32	.1562	1-3/8	2-1/2	---
12-00586	11/64	.1719	1-5/8	2-3/4	---
12-00547	3/16	.1875	1-5/8	2-3/4	---
12-00548	13/64	.2031	1-3/4	3	---
12-00549	7/32	.2188	1-3/4	3	---
12-00552	15/64	.2344	2	3-1/4	---
12-00554	17/64	.2656	2-1/8	3-1/2	---
12-00557	9/32	.2812	2-1/8	3-1/2	---
12-00558	5/16	.3125	2-3/8	3-3/4	---
12-00561	11/32	.3438	2-1/2	4	---
12-00563	3/8	.3750	2-3/4	4-1/4	---
12-00564	7/16	.4375	2-7/8	4-1/2	---
12-00567	1/2	.5000	3	4-3/4	---

CARBIDE ROTARY - RADIUS END

Rotary files have a 1/4" shank and a double-cut (self-cleaning) burrs for quicker cutting speed and less chip build-up. Style: Cylindrical Radius End (SC-5). Diameter of cut: 1/2". Length of cut: 1" .....P/N 12-02917 ..... ---

CARBIDE ROTARY FILE - BALL END

Rotary files has a 1/4" shank and a double-cut (self-cleaning) burrs for quicker cutting speed and less chip build-up. Style: Round ball (SD-1). Diameter of cut: 1/4". Length of cut: 7/32" .....P/N 12-02918 ..... ---

SPIRAL FLUTE CHUCKING REAMER

High speed steel straight shank spiral flute chucking reamer. Diameter tolerance thru 1/2 diameter + .0002.0000. Decimal Equivalent: 0.0980. Shank Type: Straight Shank. Flute Type: Spiral Flute. Size Type: Wire Gage Size. Flute Length: 7/8. Overall Length: 3-1/2. Material: High Speed Steel. Size: 40. Type: Straight Shank / Spiral Flute. Number of Flutes: 4 Flute. Brand Name: Quality Import.

Size 30 .....P/N 12-02930 ..... ---

High Speed, Size 30 .....P/N 12-02931 ..... ---

ALUMINUM CUT

Designed for use on aluminum, non-ferrous metals, soft steel, reinforced plastics, and other soft materials.

CYLINDRICAL BALL NOSE CARBIDE BURS

Aluminum Cut. 1/4" shank.

Part No.	Dia.	Flute Length	Price
12-00588	1/4	5/8	---
12-00589	3/8	3/4	---
12-00590	1/2	1	---

CYLINDRICAL CARBIDE BURS

Aluminum Cut. 1/4" shank.

Part No.	Dia.	Flute Length	Price
12-00591	1/4	5/8	---
12-00592	3/8	3/4	---
12-00593	1/2	1	---

ROUND NOSE TREE CARBIDE BURS

Aluminum Cut. 1/4" shank.

Part No.	Dia.	Flute Length	Price
12-00594	1/4	5/8	---
12-00595	3/8	3/4	---
12-00596	1/2	1	---

MEDIUM TOUGH CUT

Engineered specifically for tough applications. Tough cut insures faster, splinter-free cutting in weld & alloy castings with increased tool life.

CYLINDRICAL BALL NOSE CARBIDE BURS

Medium Tough Cut. 1/4" shank. 6" Long.

Part No.	Diameter	Flute Length	Price
12-00597	3/8	3/4	---
12-00598	1/2	1	---

ROUND NOSE TREE CARBIDE BURS

Medium Tough Cut. 1/4" shank. 6" Long.

Part No.	Diameter	Flute Length	Price
12-00599	3/8	3/4	---
12-00601	1/2	1	---

14° INCLUDED ANGLE CARBIDE BURS

Medium Tough Cut. 1/4" shank. 6" Long.

Part No.	Diameter	Flute Length	Price
12-00602	3/8	1-1/16	---
12-00603	1/2	1-1/8	---

CARBIDE ROTARY FILE - 8 PIECE SETS

8 Piece Carbide Rotary File Set. 1/4" or 1/8" shaft available.

1/8" Set .....P/N 12-02916 ..... ---

1/4" Set .....P/N 12-02915 ..... ---

TO

VISE GRIPS - UNIBITS

Locking Pliers, two straight jaws

Locking Pliers, two curved jaws

Locking Nose Jaw with wire cutter

"C" Clamps

Vise-Grip Style	Size	Part No.	Price
Locking Pliers with Two Straight Jaws	7"	12-00196	---
Locking Pliers with Two Curved Jaws and Wire Cutter	4"	4WR	---
	5"	12-00194	---
	7"	12-00189	---
Long Nose Jaws with Wire Cutter	4"	12-00190	---
Locking "C" Clamps	6"	12-00188	---
	11"	12-00195	---

TIGHT-FIT DRILL KIT

Space, every inch of it, is at a premium in aircraft design as shape and weight is critical to function. Also, airplanes are riveted together which requires thousands of holes to be drilled in difficult locations without scratching or marring the work surface. So, engineers needed to design a versatile "chuck-less" drill attachment that could reach into very confined areas. The answer was found in putting threads on the shanks of drill bits. The benefits are significant. Threaded drill bits eliminate the need for a chucking mechanism. Freed of this restriction, it is possible to do a wide variety of jobs in places with extreme space limitations (less than 1" x 2"). Chuck slippage is all but eliminated while the precision mating angle between threaded drill and drive spindle insures concentricity. Drill bit change times are reduced, an exact working drill bit length is insured and the chance of marring or scratching the work surface is greatly reduced. The Model 00105 Kit includes: a versatile close-quarter Right Angle Drill Attachment capable of drilling up to 1/4" diameter holes and compatible with all standard power drills, a 6" Threaded Extension for those deep hard-to-reach spots, a Chucking Spud which allows direct use of threaded TightFit® drill bits and extensions with your standard drill motor, five aircraft quality threaded TightFit® drill bits (Short Drill Bit Set, 00133), a Tight Fit® 3-Way Wrench, and is packaged in a red, heavy-duty, blow-molded storage case. Features: Attaches to any power drill; Recommended operating speed not to exceed 2500 rpm. • Light weight; Right angle drill weighs 1/3 of a pound and rotates 360 degrees for tight-spot access. • Threaded components allow for fast, easy tool changes; Drill over, under or around obstructions. • Design allows "deep reach" in confined areas; Provides utility of extension drill bit set.

P/N 12-01334 ..... **$58.75**

ACCESSORIES

Stub Drill Kit - 5 Drills 9/16" long in 3/32", 1/8",5/32",3/16",1/4" Dia.
P/N 12-20310 ..... ---

Short Drill Kit - 5 Drills 1-1/8" long, in same diameters as above
P/N 12-20320 ..... ---

Long Drill Kit - 5 Drills 2" long in same diameters as above.
P/N 12-20330 ..... ---

Screwdriver Set - #1 & #2 Phillips bits, small & large slotted bits.
P/N 12-20340 ..... ---

Extension Set - 4 Extensions in 1/2", 3" 6" & 9" (can be combined for a work length of 18") .....P/N 12-20350 ..... ---

Collet Adapter - Designed to hold all 1/4" shank accessories (countersinks, rotary files, sanding drums).....P/N 12-20360 .....

DELUXE TIGHT FIT TOOL KIT

PROFESSIONAL MODEL

- 1- Right angle drilling attachment
- 1- 6" Threaded Extension Rod
- 1- Chucking spud
- 1- 5'16" Threeway Wrench
- 12- Threaded Shank Drill Bits (Split into a quantity of 6 each)
- 6- Stub drill bits in the following diameters:
- 3/32", 1/8", 5/32" 3/16", 7/32" and 1/4"
- 6- Stub Bits (1-1/2") in the same diameter.
- 4- Screwdriver Bits Set: Phillips #1 & #2 and Slotted #3-#4, & #6-#8.
- 2- 1/8" & 1/4" Threaded Collets
- 1- 5/16" Combination Wrench
- 1- Pro Kit Red Storage Case .....P/N 12-11215 ..... ---

FLANGING-360 TOOL

This is a companion tool to the ARC-360 lightning hole cutter. The Flanger-360 will form a 30 degree flange on 2024-T3 aircraft aluminum up to .032" thick and in diameters from 2 to 6 inches. Its polished hardened steel rollers gently and effortlessly form the flange as the operator rotates the tool around the lightning hole. Unlike other flanging tools that rely on the skill and eye of the operator, the Flanger-360 stays in constant position with the lightning hole via guide rollers as it progressively forms the flange.....P/N 12-02030 ..... ---

UNIBIT STEP DRILL

The UNIBIT Step Drill uses a unique single flute design to drill perfectly round holes in thin materials quickly and with less effort than any other bit on the market today. UNIBIT incorporates cutting steps of progressively larger diameter, making it possible to drill up to 13 different hole sizes with a single bit. Once the desired hole diameter is obtained, the hole is automatically deburred by the cutting edge of the next larger step. UNIBIT #1 drills 13 holes in 1/32" increments from 1/8" through 1/2" and has a shank size of 1/4". UNIBIT #2 drills 6 sizes of holes from 3/16" through 1/2" and has a 3/8" step thickness with a 1/4" shank. UNIBIT #3 drills 9 sizes of holes from 1/4" to 3/4" and has a step thickness of 1/8" with a 3/8" shank. UNIBIT #5 drills holes 1/4" - 1-3/8". 10 steps. UNIBIT #21 drills 13/16"-1-3/8". 10 steps.

Description	Part No.	Price
UNIBIT #1 Step Drill	12-03700	---
UNIBIT #2 Step Drill	12-03800	---
UNIBIT #3 Step Drill	12-03900	---
UNIBIT #4 Step Drill	12-03164	---

LOCKING C-CLAMP WITH SWIVEL 6 INCH

Locking C-Clamp W/Swivel Pad, 6 In, **Specifications**: Size: 6", Capacity (In.): 2, Throat Depth (In.): 1 1/8, Clamping Force (Lb.): 500, Locking Mechanism: Release Lever, Screw Mechanism: Adjusts Clamping Pressure, Pliers Length (In.): 7 11/16, Finish: Nickel Plated, Material: Hardened Carbon Steel, Standards: ASME B107.36-2002

P/N 12-02422 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

INDUSTRIAL FABRIC SHEARS

Wiss No. 20W heavy-duty shears, ideal for cutting fiberglass cloth and all fabrics. Hot drop-forged steel.

Right Hand Shears.....P/N 01-00397 ..... ---

FISKARS 9" PINKING SHEARS

These orange handled pinking shears keep your projects from unraveling at the seams. Ergonomic handles give comfort and control, extended lower blade to help lift fabric while cutting. Adds functional pinking edge to prevent fabric fraying. Tested to ensure clean cutting even through multiple layers of cloth to the tip.

P/N 12-02942 ..... ---

NARROW TYPE FLUTING PLIERS

Designed for work on aircraft components. No-mar flutting plier jaws have special coating that will not scratch surfaces. An inexpensive quality tool.

P/N 12-05628 ..... ---

QUICK GRIP BAR CLAMPS

From the makers of Vise-Grip tools comes the amazing new Quick-Grip bar clamp. The unique pistol-grip handle lets woodworkers hold the clamp and adjust jaw pressure with just one hand. One finger unlocks the Quick-release trigger. Features include positive locking action to hold work tight, strong, lightweight high-tech construction, instant adjustable clamping pressure, large, pliable pads that won't mar work, and a variety of jaw openings. It will "single-handedly" change the way you think about bar clamps!

Part No.	Jaw Opening Size (mm)	Price
12-03910	6"/150	---
12-03920	2"/305	---

STEEL SPRING CLAMPS

This nickel-plated steel spring clamp is ideal for gluing, assembly and welding work. The comfortable vinyl coated handle makes it easy to open the clamp for 2" wide placement and the tempered spring ensures a strong hold. Keep several on hand for all projects.

P/N 12-03778 ..... ---

CUSHIONED CABLE CLAMP (ADEL CLAMP) INSTALLATION PLIERS

These special pliers allow for greatly simplified installation of single or multiple Adel type cushioned clamps. The pliers securely hold the aligned clamps in position, allowing for easy installation of securing hardware. Each kit includes special plier, alignment awl, and simple instructions.

P/N 12-02017 ..... ---

KETT PORTABLE POWER SHEARS

DOUBLE-CUT SHEARS KD-400

Variable-speed, double-cut shears feed quickly and quietly, without warping or bending your finished piece (distortion is in the waste strip). It easily follows a scribed line. The materials edges are not hardened or burred, so you get maximum use of a sheet. The swiping action of blades seals the edge of coated metals. These shears cut C.R. mild steel up to 18 gauge in straight or contour lines at over 300 inches per minute, most grades of stainless, aluminum to .080 and plastic or Formica up to 3/32" thick. These shears are also available with a contour cutting blade 60-21C to cut tighter curves and the HS blade 60-21HS for cutting foam filled doors.....P/N 12-03806 ..... ---

ELECTRIC MODEL K-442

Kett's all-purpose 16 gauge power sheers cut up to 16 gauge mild steel, cleanly and easily, without burring or buckling the material. These lightweight shears, designed for durability, feature a variable speed motor and fill the gap between Kett's light duty and heavy duty power shears.

P/N 12-01153 ..... ---

PNEUMATIC MODEL P-500

Equipped with air-metering trigger for variable-speed cutting, so that initially the blade can be operated slowly to prevent chattering at start of cut. 2600rpm. Maximum cutting speed, 180" per min. Wt. 3 lbs. Over-all length, 9".

P/N 12-01158 ..... ---

KETT KD440 14GA POWER SHEARS

Cuts 14 gauge mild steel and most grades of stainless to 16 gauge. Cuts over 150 inches/minute, leaving a clean, flat sheet, ready to fabricate. Distortions are absorbed in an easily disposed of waste curl, leaving the sheet cool and free of burn, chips, and burrs. The cutting blades are finest high speed steel. (Also cuts sheet metal, Stainless and Plastics) .....P/N 12-00676 ..... ---

KETT KD-446R PROFILE SHEARS

Cuts profile and flat materials up to 18 gauge, spiral duct, wire mesh and many other materials. Can cut tight curves at a radius of three inches. The blades are made of high quality steel, heat treated and precision ground. The motor is variable speed up to 2500 RPM and cuts up to 28 feet per minute.

Features: • 5.0 amp pistol grip • Replaceable A-2 tool steel shear blades.• These snips cuts C.R. mild steel 18 gauge and lighter, wire mesh to 18 gauge, spiral pipe, metal studs and corrugated metal

Left Hand.....P/N 12-02509 ..... ---

CORDLESS ELECTRIC KEVLAR SCISSOR KIT

The USATCO cordless electric kevlar scissor kit cuts aramid fibers, kevlar and other tough materials! Lightweight and maneuverable with superior ergonomic design. Requires much less effort than cutting manually. Short rapid strokes for intricate work. This can be operated with cord and adapter for unlimited cutting time.

P/N 12-02630 ..... ---

TO

VAMPLIERS

VAMPLIERS MINI SCREW REMOVAL PLIERS

- Remove stripped/rusted/corroded/ stuck/ one-side/Torx screws, nuts and bolts.
- Designed with VamPLIERS™ Technology.
- Target screws can be extracted using top jaw or side jaw.
- Perfect slim nose for access confined spaces.
- ESD safe handle (1x106 ~ 107 O • sq)
- Ergonomic elastomer handles for unmatched comfort.
- RoHS Compliant for use in various industries.
- Made in Japan from high carbon stainless steel.

P/N 12-04717 ..... ---

VAMPLIERS PRO SCREW REMOVAL PLIERS

- Remove stripped/rusted/corroded/ stuck/one-side/Torx screws, nuts and bolts.
- Designed with VamPLIERS™ Technology.
- Target screws can be extracted using top jaw or side jaw.
- Ergonomic elastomer handles for unmatched comfort.
- Wire cutters hardened to HRC58±2 (Rockwell standard).
- RoHS Compliant for use in various industries.
- Made in Japan from high carbon stainless steel.

P/N 12-04718 ..... ---

VAMPLIERS SCREW REMOVING PLIERS

The amazing Vampliers doubles as a regular pair of pliers, as well as a handy and effective screw remover. It uses a patented vertical and horizontal serration pattern to clamp onto screws (even if they are completely stripped) and remove them. Of course, it can also be used as a regular pair of pliers which features built-in wire cutters and wire strippers.

P/N 12-04716 ..... ---

VAMPLIERS SLIP JOINT STRIPPED SCREW REMOVAL PLIERS

These Slip Joint VamPLIERS have the signature concave shaped jaws with vertical and horizontal serrations designed inside of the jaws. This which gives the perfect bite around a stripped/rusted/corroded screw, nut or bolt for extraction. Compared to its predecessor, these jaws are wider to tackle bigger problem screws. Adding to its big bite is the "slip-joint" feature made with reversed body structures that allows the jaws to adjust and firmly take on bigger screws, nuts, and bolts!.....P/N 12-04719 ..... ---

VAMPLIERS KIT

VamPLIERS have a signature concave shaped jaws with vertical and horizontal serrations designed inside of the jaws. This which gives the perfect bite around a stripped/rusted/corroded screw, nut or bolt for extraction. This kit features a pair of the VT001-8 VamPLIER Pro Pliers, VT001-5 Mini Pliers, and the VT001-7SJ VamPLIER Slipjoint to cover all your rusted screw problems P/N 12-04720 ..... ---

VAMPLIER TOOL POUCH

Keep your VamPLIERS all in one place. This handy case has five individual pouches to hold your tools, and rolls up to save space in your toolbox. Note: Does not include VamPLIERS.

P/N 12-04721 ..... ---

VAMPLIERS® RECESSED SCREW EXTRACTOR WITH 2-IN-1 BIT SET

High Quality Screw Extractor for recessed stripped screws. Easily removes stripped or damaged flathead, countersunk, and recessed screws. Saves time – No preparation required. No messy drilling required. High-Torque handle grip. 2-in-1 bit set for slightly-damaged and heavily-damaged screws.

P/N 12-05062 ..... ---

VAMPLIERS® SCREW REMOVAL PLIERS

Remove stripped/rusted/corroded/stuck/one-side/Torx screws, nuts and bolts. Designed with patented VamPLIERS® Technology. Long Nose ideal for hard-to-reach screws up to 5.5mm in diameter and 2.2mm in height. Wire cutters hardened to HRC60±2 (Rockwell standard) to handle tough screws. Serrations in between grips used as wire pullers. Top teeth are inter-meshed for non-slip grip. Ergonomic elastomer handles for unmatched comfort T-Shaped forged handles prevent the grip covers from twisting or slipping off. RoHS compliant for use in various industries. Made in Japan from high carbon stainless steel.

Description	Part No	Price
Long-Nose 7.5 Inch Screw Extraction Pliers	12-05052	---
2 Piece Set S2A 5 Inch Mini and 6.25 Inch	12-05053	---
2 Piece Set S2B 6.25 Inch and 7 Inch	12-05054	---
2 Piece Set S2C 7 Inch and 8 Inch	12-05055	---
2 Piece Set S2D 6.25 Inch and 8 Inch	12-05056	---
3 Piece Set S3A 5 Inch Mini, 6.25 Inch, and 7 Inch	12-05057	---
3 Piece Set S3B 6.25 Inch, 7 Inch, and 8 Inch	12-05058	---
3 Piece Set S3C 5 Inch, 6.25 Inch, and 8 Inch	12-05059	---
4 Piece Set S4AP 5 Inch Mini, 6.25 Inch, 7 Inch, and 8"	12-05061	---

VAMPLIER ALL-IN-ONE ELECTRICAL SHEARS / CRIMPER

An electrician's choice shear, the All-In-One Eshears are made of high carbon steel with molybdenum and Vanadium micro-serrated blades, which are vacuum hardened for everlasting durability. They are also outfitted with sporty ergonomic handles made of Nylon and 30% fiberglass for comfort and designed for ambidextrous use.

P/N 12-04996 ..... ---

VAMPLIER 6.25'' KEVLAR CUTTING SHEARS

High quality scissors for cutting Kevlar thread. These scissors are specially designed for cutting Kevlar material; Kevlar thread in particular. One blade is micro-serrated along the whole edge. The blades are made of high carbon alloy steel with Molydenum and Vanadium edge 60~62, cutting edge hardness HV1200. The handles are especially designed for firm grip and to ease repetitive cutting action.....P/N 12-04994 ..... ---

VAMPLIER SUPER COMBO SCISSORS

A high quality multi-use 4-in 1 innovative scissors for industrial and home use. The cutting edges are sharp and micro-serrations provide a firm grip during cutting.

P/N 12-04995 ..... ---

VAMPLIER 8'' KEVLAR CUTTING SHEARS

These shears are ideal to cut materials made from aramid and para-aramid Fibers such as Kevlar, Dyneema, Vectran, and Technora in rope, ribbon, tape or fabric form. Its blades are made of high carbon alloy steel from Japan and are infused with Molybdenum and Vanadium (HRC 60~62) through a proprietary process to achieve a level of hardness (HV1200) to cut strong materials.

P/N 12-04993 ..... ---

VAMPLIERS BRUTE 6.25™ SCREW EXTRACTION PLIERS

Vampliers World's Best Pliers VT-002-6 BRUTE-Screw Extraction Pliers for Stripped, Stuck, Security, Rusted, Specialty, Screws, Nuts, Bolts, Wire Cutter, Best Electricians, Aircraft, Maintenance Pliers, and Best Gift.....P/N 12-05484 ..... ---

TO

GRIP EDGE TOOLS

GRIP EDGE HAND DRIVE SOCKETS

GRIPEDGE R.P.T. (Rounding Prevention Technology) Hand Drive Sockets. Designed to replace standard tools, each socket's unique bi-directional design allows for loosening and tightening of both new and damaged fasteners. Thanks to our patented R.P.T. Technology, enjoy up to 50% more torque on new fasteners and up to 400% more torque on compromised ones.

HAND DRIVE SOCKETS - (HEX BIT SOCKETS)

Model	Description	Part No.	Price
HA20S	20-Piece 1/4" Drive Short SAE & Metric Hex Set	12-06601	---
GE8ASMHSRPT	8-Piece 1/4" Drive Short Metric Hex Set	12-06602	---
GE11ASSHSRPT	11-Piece 1/4" Drive Short SAE Hex Set	12-06603	---
HAM7LS	7-Piece 1/4" Drive Long Metric Hex Set	12-06604	---
HAS10LS	10-Piece 1/4" Drive Long SAE Hex Set	12-06605	---
HB16S	16-Piece 3/8"" Drive Short Metric & SAE Hex Set	12-06606	---
GE7BSMHSRPT	7-Piece 3/8" Drive Short Metric Hex Set	12-06607	---
GE7BSSHSRPT	7-Piece 3/8" Drive Short SAE Hex Set	12-06608	---
HBM6LS	6-Piece 3/8" Drive Long Metric Hex Set	12-06609	---
HBS6LS	6-Piece 3/8" Drive Long SAE Hex Set	12-06610	---
HCM8S	8-Piece 1/2" Drive Metric Hex Set	12-06611	---
HCS6S	6-Piece 1/2" Drive SAE Hex Set	12-06612	---
MH38S	38-Piece Master Hex Set	12-06643	---

HAND DRIVE SOCKETS - (STAR BIT SOCKETS)

Model	Description	Part No.	Price
GE9ASTSRPT	9-Piece Short1/4" Drive RPT Star Set	12-06621	---
STA9LS	9-Piece Long 1/4" Drive RPT Star Set	12-06623	---
SCST10S	10-Piece Security Star RPT Set	12-06625	---
ES14S	14-Piece E-Star Socket Set	12-06627	---
STP13S	13-Piece RPT Star Plus Set	12-06628	---
ST14LS	14-Piece RPT Long Star Set	12-06624	---
GE14STSRPT	14-Piece RPT Short Star Set	12-06622	---
MST45S	45-Piece Master RPT Star Set	12-06644	---

GRIP EDGE MASTER RPT HEX & STAR DRIVER SET - 62-PC

Introducing the GRIPEDGE R.P.T. (Rounding Prevention Technology) 62-PC Master Hex & Star Driver Set. The MHST62S – 62-PC Master R.P.T. Hex & Star Driver Set is a cutting-edge toolset designed to replace standard hex tools with advanced Rounding Prevention Technology (RPT). This set includes Hex, Star, Tamper Proof Star, and E-Star hex bit sockets, all engineered to prevent the rounding of hex fasteners and effectively remove even the most compromised fasteners. P/N 12-06645 ..... ---

GRIP EDGE 132-PC RPT MULTI-BIT DRIVER SET

• Patented and unique bi-directional design enables loosening & tightening of new and damaged fasteners • R.P.T. Technology is designed to prevent rounding of new and compromised fasteners • R.P.T. Technology provides up to 50% more torque on NEW fasteners • R.P.T. Technology provides up to 400% more torque on damaged fasteners • Bits are precision machined from S2 steel for increased strength and durability • Bits have laser etched size markings for easy identification

P/N 12-06642 ..... ---

GRIP EDGE IMPACT DRIVE SOCKETS

Introducing the GRIPEDGE R.P.T. (Rounding Prevention Technology) Impact Drive Sets. Engineered to replace standard hex/star tools, this set features a patented bi-directional design that prevents rounding and delivers up to 50% more torque on new fasteners and up to 400% more on damaged ones. Each bit is crafted from Cr-Mo steel for enhanced strength and durability, with oversized, laser-etched markings for easy identification.

IMPACT DRIVE SOCKETS - (HEX IMPACT)

Model	Description	Part No.	Price
IHBM7S	7-Pc 3/8" Drive Short Metric Impact Hex Set	12-06613	---
IHBS7S	7-Pc 3/8" Drive Short SAE Impact Hex Set	12-06614	---
IHCM7S	7-Pc 1/2" Drive Short Metric Impact Hex Set	12-06616	---
IHCS6S	6-Pc 1/2" Drive Short SAE Impact Hex Set	12-06617	---
IHDM5S	5-Pc 3/4" Drive Metric Impact Hex Set	12-06619	---
IHDS5S	5-Pc 3/4" Drive SAE Impact Hex Set	12-06620	---
MIHB17S	17-Pc Master 3/8" Drive Impact Hex Set	12-06615	---
MIHC17S	17-Pc Master 1/2" Impact Hex Set	12-06618	---

IMPACT DRIVE SOCKETS - (STAR IMPACT)

Model	Description	Part No.	Price
IST10S	10 Piece RPT Drive Impact Star Set	12-06626	---

GRIP EDGE T-HANDLES

GRIPEDGE R.P.T. (Rounding Prevention Technology) T-Handles are designed to replaced standard hex/star tools. R.P.T. prevents the rounding of good Hex fasteners whilst being able to remove extremely compromised Hex fasteners. The unique, patented & Bi-directional geometry delivers up 50% more prevention torque on good Hex/star fasteners vs standard Hex/star tools, whilst applying up to 400% more torque on damaged fasteners vs standard Hex/star tools. Each T-Handle is uniquely designed and over molded for additional comfort.

T-HANDLES - (HEX T-HANDLE)

Model	Description	Part No.	Price
PHM8S	8-Pc Metric Hex T-Handle Set	12-06647	---
PHS9S	9-Pc SAE Hex T-Handle Set	12-06648	---

T-HANDLES - (STAR T-HANDLE)

Model	Description	Part No.	Price
PST8S	8-Pc Star T-Handle Set	12-06646	---

GRIP EDGE EXTRACTOR SETS

RPT Socket Extractors - EASILY REMOVE Broken Studs, Bolts, Button Heads, & More. Revolutionary technology designed for removing even the most stubborn rounded nuts, bolts, and more. With straight-cut and bi-directional design, these extractors can be used on both left and right threads while providing the ability to work back and forth on stubborn fasteners when other extractors slip off.

EXTRACTORS - (SOCKET EXTRACTORS)

Model	Description	Part No.	Price
XAM9S	9-Pc 1/4" Drive Metric Socket Extractor Set	12-06630	---
XAS9S	9-Pc 1/4" Drive SAE Socket Extractor Set	12-06631	---
XAM9DS	9-Pc 1/4" Drive Metric Deep Socket Extractor Set	12-06632	---
XAS9DS	9-Pc 1/4" Drive SAE Deep Socket Extractor Set	12-06633	---
XBM10S	10-Pc 3/8" Drive Metric Socket Extractor Set	12-06634	---
XBS7S	7-Pc 3/8" Drive SAE Socket Extractor Set	12-06635	---
XBM10DS	10-Pc 3/8" Drive Metric Deep Socket Extractor Set	12-06636	---
XBS7DS	7-Pc 3/8" Drive SAE Deep Socket Extractor Set	12-06637	---
XCM7S	7-Pc 1/2" Drive Metric Socket Extractor Set	12-06638	---
XCS5S	5-Pc 1/2" Drive SAE Socket Extractor Set	12-06639	---
XCM7DS	7-Pc 1/2" Drive Metric Deep Socket Extractor Set	12-06640	---
XCS5DS	5-Pc 1/2" Drive SAE Deep Socket Extractor Set	12-06641	---

EXTRACTORS - (BROKEN BOLT EXTRACTORS)

Model	Description	Part No.	Price
BBX14S	14-Pc Broken Bolt Extractor Set	12-06629	---

TO

GREX TOOLS - HARDWARE ORGANIZERS

GREX CROWN STAPLER

For projects requiring a slightly heavier thin-wire staple with a wider crown, the GREX fine wire stapler conveniently uses a crown staple with lengths ranging from 3/16" to 5/8". The 80AD and 71AD are built for speed of production, ergonomics and convenience: Patented trigger valve for fast-air-recycling time, quick release magazine, compact with a slim profile, and a powerful lightweight industrial strength design.

22 Gauge GA 3/8 Crown Stapler.....P/N 12-06438 ..... ---
21 Gauge GA 1/2 Crown Stapler.....P/N 12-06439 ..... ---

GREX AIR 105° ANGLE RANDOM ORBITAL SANDER KIT

A new comprehensive kit that bundles this tool with all it's compatible accessories plus an extensive range of premium abrasives - all packaged in a custom carrying case with foam inserts to securely protect and organize all it's contents. This all-in-one kit gives you everything you need to quickly tackle all your projects.

The defining (and patented) feature of the AOS368 sander is its unique 105-degree angle which provides better ergonomics than traditional right-angle sanders. With its compact size, it was designed for detailed sanding, spot sanding, reaching in to corners and for getting into tight areas where larger sanders can't reach.

P/N 12-06426 ..... ---

GREX MICRO SPRAY GUN SET

These are the Tritium.TS and Tritium.TG at heart, and bundled with all the essential accessories to make it work and play like a mini spray gun. Along with the heavy duty, ready for anything case, the MF.TS and MF.TG are ready for almost anything you throw its way. These are feature packed airbrushes and you'll find the same reliable, high performance quality you've come to expect from any Grex product.

TS5, Side Fed, 05MM Nozzle.....P/N 12-06409 ..... ---
TG5, Top Fed, .05MM Nozzle.....P/N 12-06407 ..... ---
TS7, Side Fed, .07MM Nozzle.....P/N 12-06410 ..... ---
TS7, Top Fed, 0.7MM Nozzle.....P/N 12-06408 ..... ---

GREX 2116AD - 22 GAUGE 3/16 INCH CROWN STAPLER

Dollhouses, miniature structures, replicas, architectural model building, upholstery and much more, the GREX 2116AD drives thin-wire 22-gauge 3/16" crown staples with lengths ranging from 3/16" to 5/8". The 2116AD finish stapler has a 3/16" crown, recommended for projects where nail heads are too small and might slip through the material. .....P/N 12-06437 ..... ---

GREX 21 GAUGE 1/2 STAPLER

For projects requiring a slightly heavier thin-wire staple with a wider crown, the GREX 80AD fine wire stapler conveniently uses a 21-gauge 1/2" crown staple with lengths ranging from 3/16" to 5/8". The 80AD is built for speed of production, ergonomics and convenience: Patented trigger valve for fast-air-recycling time, quick release magazine, compact with a slim profile, and a powerful lightweight industrial strength design. For speedy continuous stapling, fast-air-recycling allows the 80AD to quickly maximize internal air pressure and maximize power after each shot for rapid shooting.

P/N 12-06439 ..... ---

GREX CROWN AUTO-FIRE STAPLER

GREX patent pending auto-fire speed dial allows the GREX 50AF, 71AF and 80AF fine wire stapler to shoot one staple or rapid-fire several staples per single trigger pull. Turning the auto-fire speed dial counter-clockwise (towards A - Automatic) increases shots per minute and turning the auto-fire speed dial clockwise (towards S - Single) reduces shots per minute.

20 GA 1/2 Gauge.....P/N 12-06440 ..... ---
22 GA 3/8 Gauge.....P/N 12-06441 ..... ---
21 GA 1/2 Gauge.....P/N 12-06442 ..... ---

VISIT OUR WEBSITE FOR A COMPLETE LINE OF GREX TOOLS

BOLTSTER FLEXIBLE BOLT AND FASTENER ORGANIZER

Introducing our new Boltster! "The Holster for your Bolts." Born out of necessity, the Boltster is a must have for mechanics, gearheads, woodworkers, body shops, aviation mechanics, marine mechanics, and anyone looking to streamline their wrenching projects. The premise is simple. Our Boltster solves the problem of misplaced bolts and fasteners. This means no more cups of bolts or sandwich bags labeled with all your fasteners. No more guess work when reassembling a project. No more cardboard bolt diagrams. No more time wasted or anxiety from misplacing the fasteners you need!

Blue.....P/N 12-05554 ..... ---
Red .....P/N 12-06455 ..... ---
Green.....P/N 12-06456 ..... ---

BOLTSTER AIR FORCE ORGANIZER

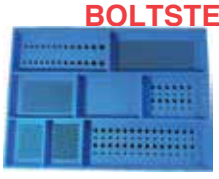
The ultimate solution for fastener retention. Specifically designed for fasteners ranging from 4mm to 8mm (or 5/32" to 5/16" for standard measurements). Made from durable silicone and weighing just under 2lbs, it features 80 evenly spaced holes, maximizing the distance between fastener heads for optimal organization. Ideal for airplane mechanics, marine mechanics, automotive technicians, and other professionals who handle smaller fasteners, the Boltster Air Force Organizer ensures efficiency and security in your work. This Red, White, and Blue themed organizer includes a locking clip, perfect for convenient storage. Plus, like all our products, it comes with a LIFETIME WARRANTY. .....P/N 12-06439 ..... ---

BOLTSTER FLEXIBLE ORGANIZING TRAY

Introducing the third model in the Boltster line up, the Boltster Flexible Organizing Tray! The Boltster Tray is the next step of our product evolution. It is everything the Original Boltster provided and so much more. We have listened to your requests the past two years, and this is the result! The Boltster Tray is a must have for automotive mechanics, body shops, aviation / marine technicians, woodshops, and anyone else looking to keep their projects organized.

Blue .....P/N 12-06457 ..... ---
Green.....P/N 12-06459 ..... ---
Red .....P/N 12-06458 ..... ---

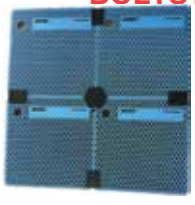
BOLTSTER TOP BOX TOOL TRAY



Introducing the fourth and latest consumer model in the Boltster line up, the Boltster Top Box Tool Tray! Over the past few years, we have had an incredible amount of feedback requesting a larger product for the top of the tool box or rolling cart. This is the result! The Top Box Tool Tray is a must have for automotive mechanics, body shops, aviation / marine technicians, woodshops, and anyone else looking to keep their projects organized.

Blue .....P/N 12-06460 ..... ---
Green.....P/N 12-06462 ..... ---
Red .....P/N 12-06461 ..... ---

BOLTSTER MODULAR SYSTEM



Have a bigger project? We have created a solution! This modular system will convert up to 4 flat Boltster Organizers into a larger working surface. This system is perfect for engine / transmission overhauls or any job that requires a significant amount of organization. These can be placed either on the front or back of your organizers depending on the look you are going for. .....P/N 12-06463 ..... ---

BOLTSTER ORGANIZER PAINT PEN

This white paint pen was designed specifically for writing on silicone and plastic surfaces. Stays when you want it, wipes off when you don't! This is hands down the best solution for drawing parts diagrams on your Boltster products. For convenience and storage, the slim body actually fits within the organizing pattern as well.

Simply prime the pen, label your project, and remove when done. Rubbing alcohol is our favorite solvent for removal of the ink.

P/N 12-06463 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

COMPARTMENT BOXES – TOOLS

16 COMPARTMENT STORAGE BOX

Easy glide large and small racks are designed to accommodate large and small compartment boxes and create convienent, compact storage systems. Boxes can be removed and tranported to the job site. Rugged plastic inserts and scoop bottoms fit neatly into steel outer shell boxes. Optional bases raise racks off the floor.
• Compartment: 16 • Weight: 8 lbs • Material: Prime cold rolled steel • Interlocking and Welded Construction • Colors: Durable gray powder coat finish • Depth: 12" • Height: 3" • Width: 18"
P/N 12-02623 ..... ---

21 COMPARTMENT STORAGE BOX

Easy glide large and small racks are designed to accommodate large and small compartment boxes and create convienent, compact storage systems. Boxes can be removed and tranported to the job site. Rugged plastic inserts and scoop bottoms fit neatly into steel outer shell boxes. Optional bases raise racks off the floor.
• Compartment: 21 • Weight: 8 lbs • Material: Prime cold rolled steel • Interlocking and Welded Construction • Colors: Durable gray powder coat finish • Depth: 12" • Height: 3" • Width: 18"
P/N 12-02622 ..... ---

32 COMPARTMENT STORAGE BOX

Easy glide large and small racks are designed to accommodate large and small compartment boxes and create convienent, compact storage systems. Boxes can be removed and tranported to the job site. Rugged plastic inserts and scoop bottoms fit neatly into steel outer shell boxes. Optional bases raise racks off the floor.
• Compartment: 32 •Weight: 8 lbs • Material: Prime cold rolled steel • Interlocking and Welded Construction • Colors: Durable gray powder coat finish • Depth: 12" • Height: 3" • Width: 18"
P/N 12-02621 ..... ---

EZ GUIDE DRAWER RACKS

Easy glide large and small racks are designed to accommodate large and small compartment boxes and create convienent, compact storage systems. Boxes can be removed and tranported to the job site. Rugged plastic inserts and scoop bottoms fit neatly into steel outer shell boxes. Optional bases raise racks off the floor.
• Weight: 20 lbs • Material: Prime cold rolled steel • Interlocking and Welded Construction • Colors: Durable gray powder coat finish • Depth: 15" • Height: 8-1/8" • Width: 20"....P/N 12-02624 ..... ---

EASY GLIDE RACK BASE

Rack base (20 5/8" W X 15 5/8" H X 12 5/8" D; weight 13 lbs.) is available for use with P/N# 12-02626.
• Weight: 13 lbs. • Material: Prime cold rolled steel • Colors: Durable gray powder coat finish • Depth: 12-1/8" • Height: 15-1/8" • Width: 20-3/8"
P/N 12-02627 ..... ---

AEROSPACE VALVE CORE REMOVAL TOOL

Used for rapid and safe tire deflation, Tool threads on valve stem, Releases and traps the valve core within the tool but exhausts the air through ports, Prevents Injury to Technician and FOD (stops the valve core from becoming a missile!), and Air exhausts away from technician. Made In the USA **Small**: Examples of applicable aircraft: Boeing 757, 737 Classic/NG, 727, 717, MD88, Airbus A320 Series, Bombardier and Embraer Regional Jets, General Avaition piston and jet aircraft: Cessna piston, Beechcraft piston and turbine (Bonanza and King/Queen Air), Pilatus PC-12 etc. **Large**: Examples of applicable aircraft: Boeing 747,767, 777, 787, DC10, MD11, Airbus A300, A330, and A380.
Small.....P/N 12-03428 ..... ---
Large .....P/N 12-04868 ..... ---

QUICK ANGLE - MEASURING ANGLES AND PITCHES

A multi-functional revolutionary new tool for measuring angles and pitches. It's rare to find one tool that will accomplish so much (miter cuts for one and duplications for another). Use this one-in-all tool to compliment and enhance your tool box.....P/N 12-02458 ..... ---

GRYPSHON GRYPMAT PLUS NON-SLIP ANTI-STATIC TOOL MAT

The Grypmat is created by a U.S. Air Force veteran and is the inspired solution to problems he encountered as a mechanic working on the air crafts day after day. Revolutionize your workflow with the Grypmat! Working on cars, aircraft, motorcycles, boats, heavy machines, or doing projects around the house- a Grypmat is the DIY-er and mechanic¡¦s best friend and the perfect holiday gift idea. Get a GRYP today.
The Grypmat PLUS's bright color options help you stay organized and lets you easily see your tools, hammers, wrenches, sockets, drill bits, nuts, bolts, and whatever else you might be working with and provides a visual management system. With Grip ability, the GRYPMAT can grip to any surface up to a 70 degree angle, with NO MAGNETS! Make any space your workspace with a Grypmat- it goes where tool boxes can't and magnetic trays won't!
Heat and Chemical Resistant and Easy to Clean - A little bit of soap and water will make it new again. For tougher messes, you can even use brake cleaner. HEAT and CHEMICAL RESISTANT - The PLUS is heat resistant up to 350¢XF, can stand up to chemicals like brake cleaner, gasoline, and engine oil. Plus it's anti-static.

Size	Orange	Price	Green	Price	Gray	Price
Small	12-06293	---	12-06298	---	12-06325	---
Medium	12-06294	---	12-06299	---	12-06317	---
Large	12-06295	---	12-06300	---	---	---
Duo	12-06296	---	12-06301	---	12-06321	---
Trio	12-06297	---	12-06302	---	---	---

SAFETY CABLE NOSE TOOLS

The unique tensioning/crimping Terminator Tool tensions the cable, crimps the ferrule on the cable, and cuts the cable flush with the ferrule. This tool utilizes the best principals of ergonomic design, user-friendly features, and improved operational durability. It is so user friendly that an entry level technician can learn the Safety Cable installation method in less than 30 minutes. The short length of this tool allows the user to get into tight places where access is restricted. The ergonomic design comfortably fits the operator's hand. The robust construction and the precise dimensional quality of the tool provide the reliability and repeatability that you are looking for. The tool nose can be rotated 360° for the optimum position of each Safety Cable™ installation while allowing the tool to stay in a comfortable ergonomic position.
5 inch nose tool.....P/N 12-04570 ..... ---
7 inch nose tool.....P/N 12-04571 ..... ---

CLAMPTITE TOOLS

4-3/4 INCH STAINLESS STEEL / ALUMINUM TOOL EXTENDS TO 7"

With stainless steel components and an aluminum body, this tool was designed for the outdoors man, fisherman and farmer who would have it around a corrosive environment. The stainless steel components are stronger and you can just toss it in the tool box that is in the truck, boat or tractor. The tool is great for emergencies and tough wire jobs. This is the original marine grade tool.
4 3/4" Long - 7" Fully Extended.....P/N 12-02633 ..... ---

4-3/4 INCH PLATED STEEL / ALUMINUM TOOL EXTENDS TO 7"

Plated steel components with aluminum body. This tool was designed with the mechanic in mind who would have it around grease, oil and a controlled environment (non corrosive). Great for the CV boots, fuel line, thermostat housing, radiator hose and air hose type repairs.
4 3/4" Long - 7" Fully Extended.....P/N 12-02634 ..... ---

4-3/4 INCH STAINLESS STEEL TOOL WITH BRONZE NUT EXTENDS TO 7"

This tool is machined stainless steel with a one piece body and nose and bronze nut. The tool was designed with the detailed craftsman who need a long lasting tool able to hold up to extremely tough wire while clamping, binding and pulling the wire until the job is complete.
4 3/4" Long - 7" Fully Extended.....P/N 12-02632 ..... ---

TOGGLE CLAMPS

Easier to use than regular C-clamps. Quick-release style. Removable rubber pads on each screw.
Gap: 1" 1-1/2" Reach.
P/N 12-02863 ..... ---

TO

PRO CRIMPER III HAND CRIMPING TOOL

Ratchet tool for panel mount free hanging connectors, open barrel pins and sockets with dies 16-28 AWG. The PRO-CRIMPER III Hand Tool provides the versatility of general-purpose service of general-purpose service tools along with the reliability and ease of use of many premium-grade tools. To reduce handle force, the linkage was designed to match the forces required to crimp large insulated terminals. The result is dramatically less hand force than comparable tools. Model: #584951.

P/N 11-14450 ..... ---

KOUL SINGLES STAINLESS BRAIDED HOSE ASSEMBLY TOOLS

Since the invention of stainless braided hose, racers and mechanics have been fighting the problem of installing it into the socket part of the assembly. If your lucky and get a clean cut on the end of that hose, you might get it in. Most of the time a little fuzz appears on the hose end and the battle begins. It is not only time consuming, it can get bloody. This tool is the solution that makes the assembly a snap. Manufactured of a high tech composite, it is virtually indestructible. No need to worry about vise marks or wearing out. Just insert the socket into the tool, twist the hose in, and in less than 10 seconds you have it assembled. You can repeat this several times without recutting the hose end. The tool can pay for itself the first time you don't have to scrap some hose because it got too short trying to clean up the end. You'll be amazed at the amount of time you'll save.

SMALL KIT - The Small kit contains the capsules to install -4, -6, -8 hose into their respective sockets. To accommodate all the different manufacturer's fittings, spacers and sleeves are required to tighten up the some of the sockets within the capsule. For the tool to perform at its best, the socket needs to be a snug fit in the funnel. The two spacers are used in some -6's and 8's. If the socket seems loose in the tool, use a spacer to tighten it up. In the small kit, only the Russell -4 needs a sleeve. Not for use with Teflon-style hose .....P/N 12-01061 ..... ---

LARGE KIT - The Large kit contains the capsules to install -10, -12, -16 hose into their respective sockets. To accommodate all the different manufacturer's fittings, spacers and sleeves are required to tighten up some of the sockets within the capsule. For the tool to perform at its best, the socket needs to be a snug fit into the funnel. In the 1016 kit, all the -16's except Russell's require the sleeve and a rear spacer. See the instructions in the case for the proper spacer number. Most of the -10's and 12's* will use a spacer. Not for use with Teflon-style hose. * -12 is a stainless washer.

P/N 12-01062 ..... ---

HOT ROD KIT - The Hot Rod kit contains the capsules to install -6, -8, -10 hose into their respective sockets. To accommodate all the different manufacturer's fittings, spacers and sleeves are required to tighten up some of the sockets within the capsule. For the tool to perform at its best, the socket needs to be a snug fit into the funnel. Spacers are used in some -6's, -8's, and most -10's. If the socket seems loose in the tool, use a spacer to tighten it up. See the instructions in the case for the proper spacer number. Not for use with Teflon-style hose .....P/N 12-01898 ..... ---

THE PRO COMBO - The Pro Combo is a special offer of BOTH the #468 and #1016 kits listed above. Pros need both kits to handle all the hose sizes in a race car. Ordering this combination will save $15.00. Not for use with Teflon-style hose.

P/N 12-01897 ..... ---

AMP PRO CRIMPER II HAND TOOL

The PRO-CRIMPER II Hand Tool provides the versatility of general-purpose service of general-purpo se service tools along with the reliability and ease of use of many premium-grade tools For versatility, 75 die sets (available separately) are interchangeable, including those for open-barrel contacts and terminals. Additionally, many of these die sets have multiple cavities for crimping a variety of contact or terminal sizes. For reliability, the tool is constructed of durable high carbon steel with extra-strength pivot pins. And, for user convenience, the PRO-CRIMPER II Hand Tool particularly excels. Ratchet control is provided for complete crimp cycling; this helps eliminate partial crimps. Also, an emergency ratchet release allows the user to open the tool jaws at any time during the crimp cycle.To reduce handle force, the linkage was designed to match the forces required to crimp our largest insulated terminal. The result is dramatically less hand force than comparable tools. Also, the angled had and specially designed handles provided comfortable operation. Locator are mounted on pin-and-socket style tools They help properly locate the contact in the die set, provide a wire stop, and help minimize contact rotation and bending during crimping.

PROCRIMPER II 58433-3.....P/N 12-01379 ..... ---
O-CRIMP DIE 58435-1.....P/N 12-01380 ..... ---
HEX CRIMP DIE 58436-1 .....P/N 12-01381 ..... ---
PIN & SOCKET 58495-2.....P/N 12-01382 ..... ---

XCELITE ROUND BLADE SLOT SCREWDRIVER

• Xcelite 1/8 inch x 10 inch length, Regular Round Blade Screwdriver, Amber Handle • 1/8" x 10" Regular Round Blade Screwdriver, Amber Handle

Features: • Regular round blade screwdriver • Blades made of AISI 6150 chrome vanadium steel, plated for protection • Handle color: Amber .....P/N 12-04776 ..... ---

AIRLOC CROSSPIN INSTALLATION TOOL

This tool accommodates the two series (diameters) of Airloc (A-Spec) studs commonly found in Beechcraft and Raytheon aircraft: #2 and #5. It has a seat for each series so the cross pin can be installed and centered and operates by placing the pin into the appropriate hole where it should remain seated. Then compress the pliers to force the cross pin into the stud. Once completely clamped, the pin will be perfectly centered in the stud. Comes with complete instructions.

P/N 12-04808 ..... ---

BETA RING PULLER WITH SWIVEL HEAD

Aviation Beta Ring Puller with Swivel Head (Designed for a 3, 4, and 5 Blade Prop):
7" diameter body, drilled for a 3, 4, and 5 blade attachment pattern on 2 individual bolt circles for motor size flexibility.
The main shaft has 5" of travel and is driven by a 6" removable handle. The pushing cap has a non-removable, free-spinning swivel head with a large inside diameter cup. Included are 5 long threaded rods with mounting couplers, 5 short threaded rods with custom machined forks, and all associated wingnuts and washers.

For A 3 and 4 Blade Prop
P/N 12-06284 ..... ---

For A 3,4, and 5 Blade Prop
P/N 12-06283 ..... ---

UNIVERSAL BETA RING PULLER WITH SWIVEL HEAD FOR TURBINE PROPS

Universally designed to fit Pilatus, King Air, and other turbine aircraft!
Aviation Beta Ring Puller with Swivel Head (Designed for a 3, 4, and 5 Blade Prop):
Large 8" diameter body drilled for a 3, 4, and 5 blade attachment pattern on 3 individual bolt circles for motor size flexibility. The main shaft has 5" of travel and is driven by a 6" removable handle. The pushing cap has a non-removable, free-spinning swivel head with a large inside diameter cup. Included are 5 long threaded rods with modified mounting couplers, 5 short threaded rods with custom machined forks, and all associated wingnuts and washers....P/N 12-06282 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ASTRO TOOL CRIMP TOOL (M22520/23-01) - AMT23B, mil spec M22520/23-01, is a heavy duty pneumatic crimp tool designed to crimp machined pin and socket contacts and insulated and non-insulated terminals size 8-4/0. Requires a die assembly and locator determined by the application. .....P/N 11-20373 ..... ---

ASTRO TOOL CRIMP TOOL TURRET HEAD DMC TH1A (M22520/1-02) - 615709, mil spec M22520/1-02, is a turret head used with the 615708, mil spec M22520/1-01, crimp tool frame on size 20-12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 circular connectors.
P/N 11-20352 ..... ---

ASTRO TOOL CRIMP TOOL TURRET HEAD DMC TH4 (M22520/1-03) - The 615710, mil spec M22520/1-03, is a turret head used with the 615708, mil spec M22520/1-01, crimp tool frame on size 20-16 pin and socket contacts installed in MIL-C-28748 connectors.
P/N 11-20353 ..... ---

ASTRO TOOL CRIMP TOOL TURRET HEAD DMC TH163 (M22520/1-04) - Used to locate crimps on size 20-12 pin and socket contacts installed in MIL-C-38999 connectors and suggested selector depth settings for the wire size being used...P/N 11-20354 ..... ---

ASTRO TOOL - CRIMPING TOOL DMC AF8 (M22520/1-01) - 615708, mil spec M22520/1-01, is a crimp tool designed for machined pin and socket contacts with wire barrel sizes 20-12. Dial Selectable, 8 indent crimp, controlled cycle ratchet – requires a turret head or positioner determined by the contact part number. Direct equivalent to Daniels Manufacturing (DMC) AF8.....P/N

ASTRO TOOL CRIMPING TOOL (M22520/2-01) - The 615717, mil spec M22520/2-01, is a crimp tool designed for machined pin and socket contacts with wire barrel sizes 20-28. Dial selectable, 8 indent crimp, controlled cycle ratchet – requires appropriate bayonet positioner determined by the contact part number.
P/N 11-20357 ..... ---

ASTRO TOOL CRIMP TOOL DMC HX4 (M22520/5-01) - 620175, mil spec M22520/5-01, is a standard C-frame crimp tool which accepts interchangeable die sets (M22520/5-xx) to crimp a wide range of military and proprietary coaxial and triaxial connectors and contacts. Numerous die sets available.
P/N 11-20367 ..... ---

ASTRO TOOL LARGE MICROCRIMP CRIMP TOOL (HARTING 09 99 000 0001) - 621205 is a controlled cycle crimp tool designed for machined pin and socket contacts installed in Harting Rectangular Power Connector HAN D & HAN E series connectors, 16A and 10A. The 621205 requires a locator determined by the contact part number. Equivalent to Harting 09990000001. Also see 621205L for tool/locator combination.. .....P/N 11-20370 ..... ---

ASTRO TOOL CRIMP DIE SET DMC Y501 (M22520/5-100) - 620617, mil spec M22520/5-100, is a crimp die set used with 620175, mil spec M22520/5-01, crimp tool frame to crimp size 22 thru 10 insulated terminals and splices conforming to MS17143, MS25036, MIL-T-7928, MS25274, and MS27429. The 630045 die set is an improved version (not mil-spec) which provides a tighter crimp on smaller wires. P/N 11-20369 ..... ---

ASTRO TOOL CRIMP DIE SET DMC Y143 (M22520/5-45) - 620310, mil spec M22520/5-45, is a crimp die set with 2 cavities used with 620175, mil spec M22520/5-01, crimp tool frame which produces .231 and .218 hex crimps. P/N 11-20368 ..... ---

ASTRO TOOL REMOVAL TWEEZER DMC DRK95-22M (MS27495R22M) - The ATBX2046, mil spec MS27495R22D/M, is a removal tweezer designed for size 22D & 22M pin and socket contacts installed in MIL-C-38999 Series I, II & III rear release circular connectors.. .....P/N 11-20375 ..... ---

ASTRO TOOL REMOVAL TWEEZER DMC DRK145 - The ATC2076 is a removal tweezer designed for size 20 contacts installed in ITT-Cannon D*C and D*U Series, rear release D-subminiature connectors. Contact numbers: 030-1952-000, 030-1953-000, 030-1954-000, 030-1955-000. Longer tip version of ATC2071. .....P/N 11-20378 .....

ASTRO TOOL INSERTION TWEEZER DMC DAK95-22MB (M81969/8-01) - The ATML0801B, mil spec M81969/8-01, is an insertion tweezer designed for size 22D & 22M pin and socket contacts installed in MIL-C-38999 Series I, II & III rear release circular connectors.
P/N 11-20420 ..... ---

ASTRO TOOL REMOVER TWEEZER DMC DRK95-22MB (M81969/8-02) - ATML0802B, mil spec M81969/8-02, is a removal tweezer designed for size 22D & 22M pin and socket contacts installed in MIL-C-38999 rear release circular connectors.
P/N 11-20421 ..... ---

ASTRO TOOL INSERTION TWEEZER DMC DAK95-22B (M81969/8-03) - The ATML 0803B, mil spec M81969/8-03, is an insertion tweezer designed for size 22 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors. .....P/N 11-20382 ..... ---

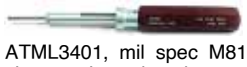
ASTRO TOOL REMOVER TWEEZER DMC DRK95-22B (M81969/8-04) - The ATML 0804B, mil spec M81969/8-04, is a removal tweezer designed for size 22 pin and socket contacts installed in MIL-C-38999 rear release circular connectors.....P/N 11-20383 .....

ASTRO TOOL INSERTION TWEEZER DMC DAK95-20B (M81969/8-05) - The ATML 0805B, mil spec M81969/8-05, is an insertion tweezer designed for size 20 pin and socket contacts installed in MIL-C-38999 Series I & II rear release circular connectors.
P/N 11-20383 ..... ---

ASTRO TOOL REMOVAL TWEEZER DMC DRK95-20B (M81969/8-06) - The ATML 0806B, mil spec M81969/8-06, is a removal tweezer designed for size 20 pin and socket contacts installed in MIL-C-38999 rear release circular connectors.....P/N 11-20417 .....

ASTRO TOOL REMOVAL TOOL 2-6900 (11-6900) DMC DRK81 - ATBX2-6900 is a removal kit designed for size 16 pin (10-195962-20F, 10-189004-16F) and socket (10-195963-20F, 10-189006-16F) and size 20 pin (10-189000-20F) and socket (10-597817-351) contacts installed in Amphenol (Bendix) PT-CE Series front release connectors. Tips are stored in the hollow handle. Equivalent to Amphenol (Bendix) 11-6900.....P/N 11-20412 .....

ASTRO TOOL REMOVAL TOOL (107R-1001) - The ATW2104 is a removal tool designed for size 16 pin and socket contacts installed in Winchester Electronics MRAC Series front release rectangular connectors.
P/N 11-20394 ..... ---



ASTRO TOOL REMOVAL TOOL DMC DRK56-22A (M81969/34-01) - The ATML3401, mil spec M81969/34-01, is a removal tool designed for size 20 pin and socket contacts installed in MIL-C-28840 front release circular connectors. .....P/N 11-20393 ..... ---

ASTRO TOOL REMOVAL TOOL DMC DRK20B (M81969/19-06) - The ATML1906B, mil spec M81969/19-06, is a removal tool designed for size 20 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors. .....P/N 11-20422 ..... ---

ASTRO TOOL REMOVAL TOOL DMC DRK12B (M81969/19-02) - The ATML1902B, mil spec M81969/19-02, is a removal tool designed for size 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors. .....P/N 11-20390 ..... ---

TO

ASTRO TOOL REMOVAL TOOL DMC DRK16B (M81969/19-01) - The ATML1901B, mil spec M81969/19-01, is a removal tool designed for size 16 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 front release circular connectors. .....P/N 11-20389 ..... ---

ASTRO TOOL REMOVAL TOOL CET-C6 / DMC DRK38 (370-8040-030) - The ATC 2188 is a removal tool designed for coax contacts installed in ITT-Cannon Combo-D D-subminiature front release rectangular connectors. Equivalent to ITT-Cannon CET-C6B, 995-9500-030.....P/N 11-20379 .....

ASTRO TOOL REMOVAL TOOL 2001 DMC DRK124A (M81969/20-01) - The ATML 2001, mil spec M81969/20-01, is an impact type removal tool designed for size 16 and 20 pin and socket contacts installed in MIL-C-22857 and MIL-C-28748 front release rectangular rack and panel connectors..
P/N 11-20414 ..... ---

ASTRO TOOL INSERTION PLIER DMC DAK283 (11-6781) - ATBX1-6781 is an insertion plier designed for size 16 pin (10-189004-16F) and socket (10-189006-16F) contacts installed in Amphenol (Bendix) PT-CE Series miniature circular connectors. Equivalent to Amphenol (Bendix) 11-6781..
P/N 11-20410 ..... ---

ASTRO TOOL INSERTION TOOL DMC DAK16B (M81969/17-04) - The

ATML1704B, mil spec M81969/17-04, is an insertion tool designed for size 16 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.....P/N 11-20418 ..... ---

ASTRO TOOL INSERTION TOOL DMC DAK16B (M81969/17-04) - The

ATML1704B, mil spec M81969/17-04, is an insertion tool designed for size 16 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.....P/N 11-20419 ..... ---

ASTRO TOOL INSERTION TOOL 3301 DAK55-22SA (M81969/33-01) -

The ATML3301, mil spec M81969/33-01, is an insertion tool designed for size 20 pin and socket contacts installed in MIL-C-28840 connectors. The same tool, with an angled tip is also available as part number ATML3302.....P/N 11-20415 ..... ---

ASTRO TOOL INSERTION TOOL DMC DAK12B (M81969/17-05)- The ATML1705B, mil spec M81969/17-05, is an insertion tool designed for size 12 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500 and MIL-C-83723 front release circular connectors.. .....P/N 11-20388 ..... ---

ASTRO TOOL CALIBRATION GAGE DMC G125 (M22520/3-1) - The 615716, mil spec M22520/3-1, is a calibration gage (Go, No-Go) used on 615708, mil spec M22520/1-01, and 615717, mil spec M22520/2-01, crimp tools.....P/N 11-20356 ..... ---

ASTRO TOOL LOCATOR DMC WA23-9 (M22520/23-09) - AMT23009L, mil spec M22520/23-09, is a locator used with AMT23B, mil spec M22520/23-01, for size 8 machined pin and socket contacts installed in MIL-C-5015 front and rear release connectors.
P/N 11-20372 ..... ---

ASTRO TOOL POSITIONER DMC K267-1 (M22520/2-23) - Used to locate crimps on size 22 pin and socket contacts installed in MIL-C-81659, MIL-C-83733, ARINC 404, and ARINC 600 rectangular connectors.
P/N 11-20409 ..... ---

ASTRO TOOL POSITIONER DMC K43 (M22520/2-10) - The 615726, mil spec M22520/2-10, is a bayonet positioner used with the 615717, mil spec M22520/2-01, crimp tool frame on size 20 pin and socket contacts installed in MIL-C-38999 circular connectors.....P/N 11-20363 .....

ASTRO TOOL POSITIONER DMC K42 (M22520/2-09) - 615725, mil spec M22520/2-09, is a bayonet positioner used with the 615717, mil spec M22520/2-01, crimp tool frame on size 22 pin (male) contacts installed in MIL-C-24308 subminiature rectangular and MIL-C-38999 circular connectors. .....P/N 11-20362 .....

ASTRO TOOL POSITIONER DMC K13-1 (M22520/2-08) - 615724, mil spec M22520/2-08, is a bayonet positioner used with the 615717, mil spec M22520/2-01, crimp tool frame on size 20 pin and socket contacts installed in MIL-C-24308, MIL-C-81659, MIL-STD-1549, ARINC 404, and ARINC 600 rectangular connectors.
P/N 11-20361 ..... ---

ASTROTOOL POSITIONER DMC K40 (M22520/2-07) - 615723, mil spec M22520/2-07, is a bayonet positioner used with the 615717, mil spec M22520/2-01, crimp tool frame on size 22 socket (female) contacts installed in MIL-C-38999 circular connectors. .....P/N 11-20360 ..... ---

ASTRO TOOL POSITIONER DMC K41 (M22520/2-06) - Used to locate crimps on size 22 socket (female) contacts installed in MIL-C-24308 subminiature rectangular and MIL-C-38999 circular connectors.. ...P/N 11-20359 ..... ---

ASTRO TOOL POSITIONER K1S DMC (M22520/2-02) - Used to locate crimps on size 20 pin and socket contacts installed in MIL-C-5015, MIL-C-26482, MIL-C-26500, and MIL-C-83723 circular connectors.
P/N 11-20358 ..... ---

ASTRO TOOL DIE ASSEMBLY DMC WA23-2 (M22520/23-02) - AMT23002DA, mil spec M22520/23-02, is a die assembly used with AMT23B, mil spec M22520/23-01, to crimp size 8 machined pin and socket contacts installed in MIL-C-5015 front and rear release connectors.....P/N 11-20371 ..... ---

ASTRO TOOL ADJUSTABLE POSITIONER DMC UH2-5 (M22520/1-05) - The 615712, mil spec M22520/1-05, is an adjustable positioner used with the 615708, mil spec M22520/1-01, crimp tool frame for size pin/socket contacts or similar applications up to .067" dia.
P/N 11-20355 ..... ---

ASTRO TOOL POSITIONER DMC 86-21 (M22520/7-13) - 620085, mil spec M22520/7-13, is a bayonet positioner used with 616336, mil spec M22520/7-01, crimp tool frame on size 16 socket (M39029/22-193, M39029/101-554) contacts installed in MIL-C-81511 Series 3 & 4 rear release circular connectors and MIL-STD-1549 terminal junction modules. .....P/N 11-20366 .....

ASTRO TOOL POSITIONER DMC 86-20 (M22520/7-12) - 620084, mil spec M22520/7-12, is a bayonet positioner used with 616336, mil spec M22520/7-01, crimp tool frame on size 20 socket (M39029/22-192, M39029/101-553) contacts installed in MIL-C-81511 Series 3 & 4 rear release circular connectors and MIL-STD-1549 terminal junction modules. .....P/N 11-20365 .....

ASTRO TOOL POSITIONER DMC 86-19 (M22520/7-11) - 620083, mil spec M22520/7-11, is a bayonet positioner used with 616336, mil spec M22520/7-01, crimp tool frame on size 22 socket (M39029/22-190, M39029/22-191, M39029/101-551, M39029/101-552) contacts installed in MIL-C-81511 Series 3 & 4 rear release circular connectors and MIL-STD-1549 terminal junction modules. .....P/N 11-20364 .....

TO

TORQUE WRENCHES

DIAL TYPE TORQUE WRENCH

Dial Type Wrenches provide unmatched reliability, accuracy and durability for applications where torque measurement is extrememly critical. Models feature a memory pointer that indicates the highest torque achieved during application of torque. 2% accuracy clockwise and counterclockwise. All wrenches are made in the USA of all steel construction for the highest quality. Both models come with a plastic storage box and a calibration compliance certificate.

3/8" sq.dr. / 300 lb.in .....P/N 12-00531 ..... ---
3/8" sq.dr. / 600 lb.in.-50 lb. ft .....P/N 12-00532 ..... ---

INDUSTRIAL DIAL (TORQUE) WRENCH

High-precision assembly operations, fastener testing (in-process/final/receiving) operations where prevailing-torque nuts are used, and auditing of fastener or assembly torque are all places where the new IDW Series will make a difference.

P/N 12-05586 ..... ---

QUICK-GRAB RATCHET-ACTION WRENCHES

You'll have the advantages of an open-end wrench, plus the convenience of ratchet action. The jaws snap open to slip onto fittings and fasteners; then, they close tightly for ratcheting. Wrenches require a 30 degree handle swing to turn a fastener. All are made of hardened steel with a black finish.

Size	Part No.	Price
5/8 Inch	12-00913	---
1/2 Inch	12-03239	---
9/16 Inch	12-03240	---

DIGITAL FORCE GAUGE

Digital Force Gauge RS232 USB AA Battery Powered 215 x 90 x 45mm 20kg

Features:

• Data record mode: Normal model or Peak hold mode.
• Normal record mode: Set sampling time from 1 second to 8 hours.
• Peak hold record mode: Set sampling time from 10 ms to 500 ms.
• Memory capacity of normal record mode: 1 GB to 16 GB.
• Memory capacity of peak hold record mode: 1000 data no. (max.)
• Under Peak hold record mode, if execute the "Data record" function, the memory circuit will store 1000 data no. (max.) measuring data into the SD card per fast speed sampling time (10ms to 500 ms).
• Under Normal record mode, if execute the "Data record" function, will save the measuring data along the real time value (Year/Month/ Date/
• Hour/Minute/Second) into the SD card per normal sampling time (1 second to 8 hours).
• After save the data into the SD memory card, it can be down load the data to the Excel directly, extra software is no need. User can make the further data analysis (graphic analysis) by themselves.
• Large LCD display with back light. .....P/N 10-07523 ..... ---

ADJUSTABLE TORQUE SCREWDRIVER

Bi-directional Accuracy of +/- 6% Indicated Value from 20% to 100% of capacity meets or exceeds ASME B107.300-2010 and ISO 6789. Incredibly durable; many owners have experienced a service life of 10+ years! Operator cannot overtorque. Clutch releases automatically when desired torque has been achieved. Scale on shaft is marked in dual incrementation (in. lbs. and NM) on Cal 36/4, kgf•cm on CAL 40. Magnifying lens improves view of clearly engraved scale. To operatie, simply dial torque setting and insert bit. Uses standard bits, adapters and sockets. Anti-backlash design enhances repeatability. Comes with FREE certificate of calibration from our ISO/IEC 17025 Accredited Calibration Laboratory. CAL 36/4 can be ordered with certification for English or SI units of measure ..P/N 12-03398 ..... ---

MICROMETER TYPE TORQUE WRENCH

The wrench is equipped with a reversible ratchet head or plain (non-ratcheting) head may be used in both right or left hand directions. The drive head accommodates sockets, extensions, crowfoot adapters, and other attachments to fit a multitude of fasteners both in English and Metric.....P/N 15-05531 ..... ---

MICROMETER ADJUSTABLE TORQUE WRENCHES

Micrometer Adjustable Ratcheting Square Drive torque wrenches are ideal for any application where: • The fastener or fitting to be tightened can be engaged with a socket. • The user changes from one torque to another often. • A high amount of rotation or limited access requires ratcheting to achieve the desired torque. • The ability to select the torque and lock it in rapidly is needed. • Simplicity of operation is needed. • Very high durability is needed. These needs are common in small quantity assembly operations and many maintenance functions; the SDR-Series tools are superb for these types of applications.• Range: 40-200 in.lbs. • Graduation: 2 in. lbs • Sq. Dr.: 3/8"

P/N 12-03403 ..... ---

MICROMETER ADJUSTABLE INTERCHANGEABLE TORQUE WRENCHES

Note: Must be used with part numbers 12-03406 and 12-03407. See Accessories. The S/R line of Micrometer Adjustable Interchangeable Head Torque Wrenches are an excellent solution when: • The ability to change torque quickly is needed • The ability to engage fasteners with different types of heads is needed • A socket cannot be used on some of the fasteners to be tightened • It is desirable to minimize the number of torque wrenches in the location • These conditions are frequently found in maintenance applications of varying types, and in some assembly operations. When they are encountered, the CCM-Series tools are often an excellent choice. • Range: 30-150 in. lbs. • Graduation: 2 in. lbs.....P/N 12-03404 .....

3/8 INCH SQUARE DRIVE RATCHET INTERCHANGEABLE HEAD

Note: Must be used with part numbers 12-03404 or 12-03405 and 12-03407. See Accessories. This series is designated "SDRT". Ideal for use when a socket is to be used and there is significant rotation of the fastener required to complete the tightening: A socket can be used to engage the fastener. A higher amount of rotation will be needed to attain the desired torque.

P/N 12-03406 ..... ---

3/8 INCH SQUARE DRIVE INTERCHANGEABLE HEAD

Note: Must be used with part numbers 12-03404 or 12-03405 and 12-03406. See Accessories. This series is designated "SD". Ideal for use when a socket is to be used and there is significant rotation of the fastener required to complete the tightening: Calibrating the wrench on a torque tester, A socket can be used to engage the fastener, A small amount of rotation will be needed to attain the desired torque.

P/N 12-03407 ..... ---

TO

REVERSIBLE RATCHETING TAP WRENCH

No. 0 to 1/4" Reversible Tap Wrench - General's Reversible Tap Wrenches feature a fine-tooth ratcheting mechanism which adjusts on the fly for right - and left-hand use. In addition, the ratchet can be locked to transform the tool into a standard tap wrench. The self-centering, hardened-steel jaws assure the formation of straight threads in your work piece. Although designed mainly for holding taps, the Reversible Tap Wrench also works great with reamers, drill bits, screw extractors and other hand-turned tools.

P/N 12-03352 ..... ---

60 PIECE DRILL BIT SET

60 pc. Bright - Jobber Length - 118° Point - Wire Sizes - 95090850. Excellent general purpose drill bit. Precision CNC machined for faster, more efficient chip removal. Industrial-Grade NAS High Speed Steel (HSS). Heavy duty metal storage case. Numbered metal tip-out indexes keep bits organized. Made in the USA. Material applications: aluminum, copper, wood, plastic Size range: Wire #1-#60 ....P/N 12-04760 .....

AIR CHISEL TOOLS

Aircraft structures are sensitive to tool damage during manufacture, servicing and repair but the numerous plastic and composite materials available in our products are able to deliver the levels of strength and durability required of tools systems whilst conforming to aircraft manufacturer specifications.

Strong ribbed backing air chisels that are easily reshaped. Designed to fit standard air chisel tools with a 0.401" diameter shank, this scraper system maintains the damage reduction and non-marring properties of our hand tools but is suited to heavy-duty and higher volume material removal while reducing operator fatigue.

GENERAL SCRAPPER CHISEL TOOLS

Standard width air chisel scraper.
General Scrapper Chisel Tool - Soft
P/N 12-02282 ..... ---

FLAT SCRAPPER CHISEL TOOLS

Steep angle for air chisel scraping delicate, narrow jobs that require less of a wedging angle.
Flat Scrapper Chisel Tool - Soft
P/N 12-02284 ..... ---

BOX CORNER SCRAPPER CHISEL TOOLS

Ideal shape for air chisel scraping tight into corners, removing material on both sides surface at once.
Box Corner Scrapper Chisel Tool - Soft
P/N 12-02286 ..... ---

LARGE HEAVY DUTY FLAT AIR CHISEL TOOL

Wide air chisel scraper for larger areas of removal.
Large Heavy Duty Flat Air Chisel Tool- Hard
P/N 12-02288 ..... ---

NARROW HEAVY DUTY FLAT AIR CHISEL TOOLS

Narrow air chisel scraper for tight, confined areas of removal.
Narrow Heavy Duty Flat Air Chisel Tool- Hard
P/N 12-02289 ..... ---

TO

AEROWING RAPID DESEALING SYSTEM

Pneumatic aircraft sealant scraper removal hand tool. Now smaller, lighter, less vibration!
Use for decal or floor panel removal too.
The Aerowing Rapid Desealing System (RDS) is a pneumatic hand tool which significantly improves the efficiency and strain associated with removing aircraft sealants and other adhesives. The RDS may be safely used to remove aircraft sealant from inside of fuel tanks, as well as exterior structure of aircraft, composites, windows, etc.
The pneumatic Rapid Desealing System quickly de-bonds sealant 40 times faster than traditional methods.....P/N 09-06183 ..... ---

FEIN MULTIMASTER TOOL SET

The FEIN MultiMaster FMM 350QSL Top Kit uses the new, tool-free, snap-in Starlock mounting system for easier, safer blade and accessory changes. This comprehensive kit includes the Multimaster 350QSL and accessories for sawing, scraping, grinding, sanding and dust extraction. The Starlock mounting system increases torque transfer and power efficiency, which reduces wear and tear on the tool and extends its service life. The ergonomic handle design, minimal vibration and reduced noise make using the tool more comfortable for you. Fits all Starlock and Starlock Plus blades and accessories.

In the box: • 1 FEIN MultiMaster FMM 350 QSL • 1 backing pad • 3 of each sanding sheet (grits 60, 80, 120, 180) • 1 perforated backing pad • 3 of each sanding sheet (grits 60, 80, 120, 180), perforated • 6 sanding sheets 4-1/2 in perforated (2 each of grits 60, 80, 180) • 1 dust extraction assembly • 1 rigid scraper blade 1 E-Cut Long-Life saw blade 1-3/8 in (35 mm) (type 160) • 1 Universal E-Cut saw blade 1-3/4 in (44 mm) (type 152) • 1 E-Cut Long-Life saw blade 2-9/16 in (65 mm) (type 161) • 1 HSS segment saw blade • 1 carbide segment saw blade • 1 carbide rasp (triangular) • 1 tool case.....P/N 12-00834 ..... ---

HOSE PINCH-OFF PLIERS

Great for radiator and heater hose, vacuum and fuel lines. Tested to 50,000 cycles without failure for reliable performance. Patented clamping mechanism - No adjustment needed -- Simply squeeze to lock Cushion handgrips for comfort and control. Available in three sizes. Made in U.S.A.

Hose Pinch-off Pliers 1-1⁄4" OD Cap. .....P/N 12-00524 ..... ---
Hose Pinch-off Pliers 2-1⁄2" OD Cap .....P/N 12-00525 ..... ---
Hose Pinch-off Pliers 3/4" OD Cap .....P/N 12-00526 ..... ---

HOSE CLAMP PLIERS

Specially designed for applying and removing spring hose clamps.The recesses in the jaws grip the ends of the spring so it cannot slip or twist. Grips with either end or side of jaws for reaching into tight places.

P/N 12-01154 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SAFETY WIRE TWISTERS - SAF-T-BLOKS

MILBAR SAFETY WIRE TWISTERS

Three-In-One Tool: Pliers, twisters and cutters. Used on wire sizes .060" or less. Grips wire into 30° slip proof angle. One-hand operation. Squeeze, press button and it locks. Squeeze again and it unlocks. Made in USA.

With Manual Return		
Description	**Part No.**	**Price**
Standard Nose - 9" Long	12-00915	---
Diagonal Nose - 6"Long	12-00914	---
With Automatic Return - Non Reversible		
9" Long	12-00916	---

MILBAR WIRE TWISTERS CUSHION THROAT MODEL 25W & 26W

Milbar is the world's leading brand of Wire Twister Tools and Kits. Designed for the professional mechanic, Milbar forgings are made from high carbon alloy steel and are controlled throughout the manufacturing process to exacting engineering specifications. Each tool passes a series of rigorous quality assurance tests which ensure function and reliability under the most demanding environments. (Black oxide finish) TYPES AND STYLES - Wire Twisters come in 6" Diagonal Configuration. The 25W model incorporate a Cushion Throat to catch clipped wire ends, preventing FOD (foreign object damage). The Spring Return feature automatically retracts the twist rod to ease and speed the work.

25W-NOM Size 6".....P/N 12-01631 ..... ---
6W-NOM Size 9".....P/N 12-02018 ..... ---

ECONOMY MILBAR WIRE TWISTERS MODEL 42W & 45W

Milbar Safety Wire Pliers 45W 6" & 42W 12" Reversible- Automatic Return Milbar Safetytwist Reversible Wire Twister with Automatic Return.

Milbar 45W Reversible 6" Safety Wire Pliers have an overall length of 8-3/4" and wire capacity of .041".....P/N 45W ..... ---
Milbar 42W Reversible 12" Safety Wire Pliers have an overall length of 12-1/4" and wire capacity of .060".....P/N 15-06301 ..... ---

SAFETY WIRE TWISTERS

These top quality twisting lock pliers with automatic return are reversible, economically priced, and extremely durable. Features a sharp cutting edge and will twist up to .060" dia. safety wire.

6-INCH.....P/N 12-02828 ..... ---
9-INCH.....P/N 12-02829 ..... ---

SAFETY WIRE TWISTER KIT M300

Contains 6" Safety Wire Twister and 19" Chrome Adjustable Safety Twister Tool.

P/N 12-01680 ..... ---

MILBAR 105W PROFESSIONAL WIRING KIT

The most versatile kit available. Contains three different SafetyTwist® Pliers to cover almost any application: 9" Automatic (1W393), 6" Mini (9W) and a 19" Deep Reach Twister (13W). Includes three 1/4 lb. spools of stainless steel safety wire (.020, .032, .041). Durable plastic storage case. Kit weight 4 lbs.

P/N 12-02020 ..... ---

SAFETY WIRE TWISTER KIT

• 04-134SR - Safety Wire Twister • 04-134SR6 - Safety Wire Twister - Mini • 43-025 - Stainless Steel Aircraft Safety Wire • 43-032 - Stainless Steel Aircraft Safety Wire • 43-041 - Stainless Steel Aircraft Safety Wire • Kit Box 13".....P/N 12-02350 ..... ---

ECONOMY SAFETY WIRE TWISTERS

These top quality twisting lock pliers with automatic return are economically priced and extremely durable. Features a sharp cutting edge and will twist up to .060" dia. safety wire. Length 6"& 9". Foreign made.

6".....P/N 12-01472 ..... ---
9".....P/N 12-01473 ..... ---

SAFETY WIRE INSTALLATION PLIERS - 8 INCH

American Aviator Tools set out to develop safety wire pliers that rival top professional units but priced for a much broader audience. The SWP8-REV features a precision diagonal nose jaw and heat treated cutting blades, using pro-spec chrome vanadium material. The locking mechanism operates with ease, as does the spring return lever. Finally, the SWP8-REV can produce right-hand twists(clockwise action) or left hand twists. Fit and finish is professional quality. The WSP8-REV measures 9" tip-to-tip.....P/N 12-06453 ..... ---

SAFETY WIRE STARTER KIT

This handy kit enables you to safety wire any nuts or bolts on an airframe or engine. Just place the special washers under the bolt or nut, bend up the small flanges to hold the bolt or nut in place, and then use the tab of the washer to attach the wire to a solid point so the bolt cannot move. This kit works on the same principle as drilled bolts do and is very handy for those flying with an engine that does not have safety wired nuts and bolts. Excellent for use on 2 stroke engines. Package of spare washers includes 6 ea. of: 6, 8, & 10 mm sizes.

Safety Wire Starter Kit.....P/N 12-16625 ..... ---
Package of 18 Spare Washers .....P/N 12-16626 ..... ---

AERO SAF-T-BLOKS

Since the introduction of Saf-T-Bloks in 1981, they've helped thousands of mechanics by taking the headaches and hassle out of drilling safety wire holes in bolts and nuts. This easy to use Saf-T-Blok holds the bolt steady after you thread it in to the required depth. You then drill the hole through the center with no risk of misalignment. Saf-T-Blok is available in 4 sizes:

Description	Part No.	Price
Metric: (5 Thread Size) 6x1, 8x10, 8x1.25, 10x1.25, 10x1.5	12-15346	---
Aero: (5 Thread Size) 8-32,10-32, .25x20, .25x28, 5/16 x 24	12-15347	---

NUT SAF-T-BLOK

Designed to enable safety wire holes to be drilled through the head of bolts or through nuts, across the diagonal. Designed to accept up to 3/4 inch diameter nut. Easy to use. Nut Saf-T-Blok requires that the nut or bolt be placed into the "V" groove, tighten down the holding screw, drill and deburr. .....P/N 12-15349 ..... ---

ALLEN II SAF-T-BLOK STANDARD

From MTE industries the Allen Saf-T-Blok2. Design for all socket head cap screws Metric and SAE. With an added plus can be used as a tubing drill guide. As with all the Saf-T-bloks, this takes the headache and hassle out of drilling safety wire holes.....P/N 12-02407 ..... ---

SWP8 SAFETY WIRE INSTALLATION PLIERS

The SWP8 features a diagonal nose jaw and heat-treated cutting blades, using pro-spec chrome vanadium material. The locking mechanism operates with ease, as does the self-retracting twist lever, according to company officials.....P/N 12-05033 .....

SAFETY WIRE KITS

These kits include professional safety wiring kit for all applications. Contains 9" automatic standard twister, 6" safety wire twister, made of hardened alloy steel-black oxide finish plus (3) 1/4 lb. spools of annealed stainless steel safety wire. (Sizes: 020, 032, 041). Model 100 also includes 19" chrome adjustable safety wire twister (for cavity and deep access applications.

Model 200 .....P/N 12-16650 ..... ---

SAFETY WIRE DRILLING JIG

This tool provides a fast, simple way to drill bolt heads with virtually no broken drill bits. The tool is made of 6061T6 hard anodized aluminum for durability. Fits 3/16" to 5/8" dia. bolts and works on hex head bolts, header bolts, 12 point countersink and Allen head cap screws. Includes drill bushings and two cobalt drills. Made in U.S.A.....P/N 12-16600 .....

SPECIALTY TWISTER

An excellent tool for different access situations, this twister provides a deep reach and access to close quarters. Made in U.S.A.

P/N 13W ..... ---

SAFETY WIRE TOOL

Easy one-hand operation. Reaches into tight places, makes a fast, neat twist. Shatterproof plastic handle.....P/N 12-01072 ..... ---

STRIPMASTER LITE WIRE STRIPPERS

Professional-grade Stripmaster Lite Wire Strippers that feature knife-type blades for precise and clean wire stripping. These tools are designed for easy and efficient wire stripping, making them ideal for electricians, technicians, and DIY enthusiasts. The Stripmaster Lite Wire Strippers are durable, reliable, and easy to use, offering superior performance for various wire-stripping applications.

P/N 12-03714 ..... ---

TO

STRIPPER/CUTTERS

Klein wire strippers and cutters cut, strip, gauge and loop a wide range of wire types and sizes. Made of strong, hardened steel with comfortable handles, these tools are durable and long lasting.

11055 KLEIN-KURVE™ WIRE STRIPPER/CUTTER

Solid and Stranded. Double-dipped comfort grips with curved handles, cuts, strips, loops and gauges 10-18 AWG solid wire and 12-20 AWG stranded wire, cleanly shears 6-32 & 8-32 screws, coil spring provides fast, self-opening action .....P/N 12-00235 ..... ---

11057 KLEIN-KURVE™ WIRE STRIPPER/CUTTER

Solid and Stranded. Double-dipped comfort grips with curved handles, cuts, strips, loops and gauges 20-30 AWG solid wire and 22-32 AWG stranded wire, cleanly shears 6-32 & 8-32 screws, coil spring provides fast, self-opening action .....P/N 12-00236 ..... ---

11045 KLEIN 10-18 WIRE STRIPPER/CUTTER

Strips 10 to 18 AWG solid wire, easy-to-read wire gauge markings, comfortable handles with cushion ridges .....P/N 12-00233 ..... ---

11046 KLEIN 16-26 WIRE STRIPPER/CUTTER

Strips 16 to 26 AWG stranded wire, easy-to-read wire gauge markings, comfortable handles w/cushion ridges .....P/N 12-00234 .....

11054 KLEIN KURVE WIRE STRIPPER / CUTTER

Cuts, strips and loops 8-16 AWG Solid and 10-18 AWG Stranded wire. Precision shear-type blades for clean cuts on solid and stranded copper wire. Easy-to-read markings on both sides. Curved handles help reach into confined areas .....P/N 12-03218 ..... ---

KLEIN WIRE STRIPPERS 6-12

This lightweight Klein-Kurve wire stripper-cutter strips large gauge 6-12 AWG stranded wire and eliminates the need for a skinning knife. The tool clearly shears 6-32 and 8-32 screws and has a serrated pliers nose, which allows the user to pull, grip, and twist wire design adn double-dipped textured grips provide control and comfort.....P/N 12-01456 ..... ---

63020 KLEIN-KURVE MULTI CABLE CUTTER

Designed with 3 different cutting blades; anvil cutter, a copper curved cutter & a steel cutter. Cleanly shears 6-32 & 8-32 screws, double-dipped comfort grips with curved handles, coil spring provides fast self-opening action .....P/N 12-00496 ..... ---

KLEIN TOOLS CABLE STRIPPER / CUTTER

Klein Tools added its new QTR-Turn NM cable stripper/cutter with Klein-Kurve handles to its existing line of strippers and cutters. The QTR-Turn technology allows users to place cable in the upper jacket strippers, squeeze the handle, and turn one-quarter to completely sever the outer jacket. It utilizes spring-loaded action for self-openingP/N 12-01770 ..... ---

KLEIN 8-1/4" CABLE CUTTER

Cuts up to 1" diameter aluminum and copper coaxial cable, curved jaws firmly grasp cable, shear-type cutting blades, precision, one-hand shearing action
P/N 12-00497 ..... ---

CRIMPING/CUTTING TOOL

This tool is designed to crimp insulated and non-insulated 10 to 20 AWG solderless terminals & connectors. It has easy-to-read tool markings to identify the insulated or noninsulated crimping dies. Its tapered nose design works well in tight places and has specially hardened cutter in th nose for quick, clean cuts. Size: 9.75".
Lifetime warranty .....P/N 12-00698 ..... ---

KLEIN SCREW-HOLDING SCREWDRIVERS

Unique screw-holding design in which screws are held at the tip of drivers for precise placement in tight, hard-to-reach places and allows both torquing and tightening of screws. Starts and drives screws with one hand when working in hard-to-reach spaces.
1/4" Slotted .....P/N 12-02702 ..... ---
1/4" Phillips .....P/N 12-02701 ..... ---

KLEIN MULTI TOOL

This cutting, stripping, and crimping tool cuts and strips 8-22 AWG solid and 10-26 AWG stranded wire with built-in, knife-type wire cutter.
P/N 12-05715 ..... ---

PLIERS

Designed and built with exceptional quality standards in a tradition that dates back to 1857. Klein specializes in the making of the world's finest pliers, for the professional. What makes Klein pliers different is induction hardening of cutting edges, pliers head hardness, hot riveting and special handle hardness.

D228-8 KLEIN 8" DIAGONAL-CUTTING PLIERS

High-leverage, standard-bevel cutting knives, with hand-form style plastic-dipped handles.
P/N 12-00228 ..... ---

D203-6 KLEIN 65/8" LONG-NOSE SIDE-CUTTING PLIERS -

Standard cutting knives at hinge, wraps, loops, and cuts, plastic-dipped handles.
P/N 12-00229 ..... ---

D203-6 KLEIN 85/16" HEAVY-DUTY LONG-NOSE SIDE-CUTTING PLIERS -

Induction hardened cutting knives, greater cutting power, hot-riveted joint, plastic-dipped handles.....P/N 12-00230 ..... ---

D252-6 KLEIN 6" DIAGONAL-CUTTING PLIERS

All-purpose, heavy duty, tapered nose, induction hardened cutting knives, hot riveted joints, plastic-dipped handles .....P/N 12-00231 .....

5139 KLEIN CANVAS ZIPPER BAG

White canvas bag with strong zipper, convenient storage for tools, 7.5" x 12" overall size.
P/N 12-00239 ..... ---

NUT DRIVERS

The professional requires a number of nut drivers in a variety of sizes and types. Klein drivers feature convenience, comfort and efficiency in use, plus exceptional strength and durability. All Klein nut drivers are made of the highest quality tempered steel, carefully heat-treated for maximum strength.

631 KLEIN 7-PC. CUSHION-GRIP NUT DRIVER SET - Contains 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", & 1/2" hollow-shaft nut drivers, roll-up plastic storage pouch. .....P/N 12-00238 ..... ---

610 STUBBY NUT DRIVERS

The #610-1/4 & #610-5/16 stubby nut drivers are designed for use in tight spaces and on hard-to-reach fasteners. The tools have cushion grip handles for greater torque and user comfort. Drivers are made for 1/4" & 5/16" hex nut and hex screw sizes. The tool shafts measure 1.5" long and overall 3.5" long.
#610-1/4 .....P/N 12-00694 ..... ---
#610-5/16 .....P/N 12-00695 ..... ---

KLEIN TIP NUT DRIVER SET 7 -PC SET

Full Hollow Shaft design with Rare Earth magnetic tip. (Only with P/N 12-01594). Full hollow shafts facilitate work on long bolt applications. Cushion Grip handles allow for greater torque and comfort. Handle domes are color coded for easy identification. Internal flanges provide solid, twist-resistant shaft anchor. Chrome plated shaft helps prevent corrosion. Set contains Cat. No. 646-3/16M, 646-1/4M, 646-5/16M, 646-11/32M, 646-3/8M, 646-7/16M, 646-1/2M.
Klein nut driver 7pc. set.....P/N 12-00306 ..... ---
Klein driver 7pc Magnetic Set .....P/N 12-01594 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

KLEIN HOLE SAW KITS

Klein Hole Saws feature bimetal cobalt construction which allows for heavy-duty cutting; they can cut through studs in one pass. They also have multiple knock-out slots and holes for easy core removal. Carbide grit hole saws work well for cutting abrasive materials and offer a smooth cut with minimal tear-out.
Electrician's Hole Saw Kit -
Contains the most popular sizes for basic electrical work. Hole Saws: 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2" Arbors: 7/16" (qty.2)
P/N 12-00969 ..... ---

KLEIN ELECTRICIAN TOOL SETS

Designed for beginner and experienced wirers, these tool sets range in size from a basic 14-piece assortment to the 41-piece comprehensive collection. Each set contains Klein premium products, such as wire stripper/cutters, screwdrivers, and pliers, plus protective eye wear and a pouch or tool bag for toting and storage. Each set offers a cost savings when compared to buying the tools separately. Tools in Electricians sets have standard handles. Tools in Journeyman sets have state of the art dual-material handles which provide a superior grip without sacrificing tool strength or durability.
14-Piece Electrician Tool Set .....P/N 12-00819 ..... ---
18-Piece Journeyman Tool Set.....P/N 12-00821 ..... ---
28-Piece Electrician Tool Set .....P/N 12-00820 ..... ---
41-Piece Journeyman Tool Set.....P/N 12-00822 ..... ---

KLEIN DIAGONAL CUTTING PLIERS WITH TAPERED NOSE

Easy working in confined areas. Short jaws and beveled cutting edges permit close cutting of wire. Induction-hardened cutting knives for long life. Hot-riveted joint ensures smooth action and no handle wobble. Plastic-dipped handles for comfort and ease of identification. Custom, US-made tool steel.
P/N 12-03373 ..... ---

KLEIN LIGHTWEIGHT FLUSH CUTTERS

These shears wire up to 18 AWG producing a flat, flush cut. Shear cutting greatly reduces cutting effort and minimizes fly-off. Cushioned grips and steel return spring for increased comfort during repetitive cutting. Ultra slim profile increases access in confined areas. Heat treated for increased durability. With 1/2" drive .....P/N 12-03360 ..... ---

PISTON PIN REMOVAL TOOL

This tool takes all the work and risk out of removing the piston pin. It works on Lycoming and Continental engines. Just slip it over the piston, turn the shaft and it pushes the pin out smoothly and cleanly. Vinyl coated tip prevents scratching and marring the pin or piston during removal. Will handle up to 5.5" pistons.
P/N 12-04810 ..... ---

ARC360 HOLE CUTTER

Panel knock put punches and hole saws work well for holes that are aren't too big but it gets harder and more expensive as the size of the hole increases.
You can cut holes with a router but cutting holes with a router is a cumbersome ordeal. The router is really just too big a tool to be swinging 360 degrees easily. You can set it to cut holes down to around 1.5 inches and up to around 10 inches. The tool's small size allows you to easily see your work as you are cutting. If you want an arc you can start and stop anywhere you want. It will cut any thickness of sheet aluminum.
The cutting speed in 032 thick 2024-T3 aluminum is around 40 inches per minute so you can cut a 4-inch diameter hole in less than 20 seconds.
P/N 12-01977 ..... ---

GREASE JOINT REJUVENATOR

Have you ever tried to push grease in through a grease fitting and couldn't? The Grease Joint Rejuvenator opens clogged grease joints and fittings effortlessly in less than a minute! • Opens clogged grease fittings & joints • Cleans and replenishes old and dirty grease fittings • Loosens dried grease in joints • Cleans ways and stays in milling machines and lathes • Lubricates bearings on farm, lawn & construction equipment.....P/N 12-01038 ..... ---

COMPRESSION WHISTLE ALERT

12-01041

No more burning your fingers and hands! Just Listen! Insert Whistle Alert™ into any 14mm spark plug hole and bump the engine until you hear the whistle. You are now on the compression stroke! • Easily find Top Dead Center compression stoke • Turn engine over from inside the car and listen for the whistle • Made of steel and aluminum • Made and assembled in the USA.
Whistle Alert (Rigid).....P/N 12-01039 ..... ---
Whistle Alert (Flex).....P/N 12-01041 ..... ---

KEARNEY SWAGER

This portable, hand-operated roll type swaging machine will swage MS type terminals onto galvanized and stainless steel cables from 1/16" diameter up to and including 3/16" diameter. Includes machine, a full set of roll dies, terminal gauges and feed guide adapters & instructions in a steel carrying case. Wt. 95 lbs. New manufacture. All replacement parts available.
Special order. .....P/N 12-01188 ..... ---

ATS PUSH ROD SPRING COMPRESSOR

You know how hard it is to get at the springs on the push rod tubes... Now, you can compress them and remove the tube in under a minute. Just slip this tool onto the spring and crank the shaft counterclockwise (an air ratchet works great for this) to compress the spring, and then give everything a wiggle and out it comes. It's a must-have tool when working on big bore Continentals. This tool will fit all production engines Lycoming, Continental, Franklin, and even most old radials.
P/N 12-04809 ..... ---

TACH DRIVE SEAL REMOVER

This straight forward tool will let you remove the tach seal in minutes time and time again. .....P/N 12-04820 ..... ---

STEELMAX POWER TOOLS - TENSIOMETERS

STEELMAX METAL CUTTING SAW 9 INCH

More efficient than any portable metal cutting process you are using now! • Increase Productivity - No Milling or de-burring with near surgical dry-cut technology. • Cuts a Variety of Metals, Plastic and Wood - Bring your saw to the work-piece while cutting mild steel, stainless steel and aluminum as easy as it cuts plywood. • Cool-to-the-Touch - No waiting for your workpiece to cool down. Just cut it and handle it. • Precise Cutting - With integrated laser sighting system.....P/N 12-01716 ..... ---

Accessories	Teeth	Arbor	Part No.	Price
9" Stainless Steel Blade	80T	1.0"	12-01805	---
9" Alluminum Blade	80T	1.0"	12-01807	---

STEELMAX DRYCUT SAW S14

Utilizing a 14" carbide tipped blade, the Steelmax S14 cuts through metal faster, safer and cleaner than abrasive chop saws in a fraction of the time and cost. Powered with a 15 amp motor and geared to turn slower than a chop saw, the S14 dry cutter cuts like a cold saw, but at a fraction of the cost. Sold standard with a 14" carbide tipped mild steel blade attached, heavy duty, industrial strength cast iron base and two position locking vise, this saw is ready for immediate action! Cuts solid mild steel up to 1"thickness; cut profiles: pipe, angles, channel with a depth of cut up to 4-3/4". Bevels to 45 degrees. Saves time and money giving cool cuts that need little to no finishing, eliminating any need for grinding or cool down time.....P/N 12-01717 ..... ---

Accessories	Teeth	Arbor	Part No.	Price
14" Stainless Steel (Less Than 1/4")	90T	1.0"	12-01809	---
14" Thin Mild Steel (Less Than 1/4")	90T	1.0"	12-01810	---

MAGNETIC BASE DRILL

SteelMax® brand drills maintain rigidity and accuracy throughout the life of the drill. The rail system eliminates the need to adjust or maintain traditional gibs. In addition to saving on maintenance, cutter life is increased by reducing movement at the cutter tips. When cutters last longer, you save money every day you use SteelMax!
Magnetic Base Drill.....P/N 12-01718 ..... ---
Portable Magnetic Drill .....P/N 12-01811 ..... ---

CUTTERS FOR MAGNETIC BASE BRILL

Dia.	D.O.C.	Part No.	Price
7/16"	1"	12-01813	---
1/2"	1"	12-01814	---
9/16"	1"	12-01815	---
5/8"	1"	12-01816	---
11/16"	1"	12-01817	---
3/4"	1"	12-01818	---
13/16"	1"	12-01819	---
7/9"	1"	12-01829	---
1"	1"	12-01831	---
1-1/16"	1"	12-01832	---
7/16"	1"	12-01833	---

Dia.	D.O.C.	Part No.	Price
1/2"	2"	12-01834	---
9/16"	2"	12-01835	---
5/8"	2"	12-01836	---
11/16"	2"	12-01837	---
3/4"	2"	12-01838	---
13/16"	2"	12-01839	---
7/8"	2"	12-01840	---
15/16"	2"	12-01841	---
1"	2"	12-01842	---
1-1/16"	2"	12-01843	---

Accessories for Base Drill	Part No.	Price
1" Center Pin For SM4374	12-01845	---
1" Center For1" DOC Cutters	12-01844	---
2" Center Pin For SM437L Only	12-01847	---
2" Center For 2" DOC Cutters	12-01846	---

1/2 INCH CHUCK & ADAPTER

With this optional industrial arbors and 2MT-1/2"Drill Chuck now you can! SteelMax industrial arbors let you easily adapt our premium m2AL cutters to a variety of machinery, including CNC, lathe's, stationary drill presses and similar equipment. With our integrated coolant collar, cutter performance and cutter life is assured! .....P/N 12-01812 ..... ---

6 AND 13 PIECE CUTTER SETS

Description	Includes	Part No.	Price
6 Piece Set 1" DOC	9/16", 11/16", 13/16", 15/16", 1-1/16", Cutter Case, and 1" Pilot 9/16"-1-1/16"	12-01848	---
6 Piece Set 2" DOC	9/16", 11/16", 13/16", 15/16", 1-1/16", Cutter Case, and 2" Pilot 9/16"-1-1/16"	12-01849	---
13 Piece Set 1" DOC	7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8" 15/16", 1", 1-1/16", Cutter Case, and1" Pilot 7/16", 1" Pilot9/16"-1-1/16"	12-01850	---
13 Piece Set 2" DOC	7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8" 15/16", 1", 1-1/16", Cutter Case, and1" Pilot 7/16"-1/2", 1" Pilot 9/16"-1-1/16"	12-01851	---

TENSITRON TRANSDUCERS

Tensitron's transducers convert a material's tension into a reliable signal that can be used for remote indication, high-speed recording, computer hook-ups, or as input for automatic tension control systems.
Note: A Signal Conditioner is needed to provide the necessary excitation, amplification, signal conditioning, calibration functions, display/readout and other options necessary to operate strain gaged transducers.
Attention: Tensitron products may not be cancelled or returned.

TENSITRON FIBER AND WIRE TRANSDUCERS

Model No.	Description	Tension Range	Part No.	Price
E-090-00	Single Roller Low Force Load Cell	1 - 100 lb.	12-05002	---
E-091-00	3 Roller Low Force Load Cell	1 - 100 lb.	12-05003	---
E-095-01	Notched Beam Transducer	10 - 1,000 lb.	12-05005	---
E-095-03	3 Roller Notched Beam Transducer	10 - 1000 lb.	12-05006	---
E-415-002	Small Space Transducer with Single Roller	5 - 5,000 g	12-05011	---
F-1806	Platform Mounted Fiber Transducer	5 - 5,000 g	12-05013	---
FT-107	Small Space Fiber Transducer	5 - 5,000 g	12-05014	---
FT-107-TIS	Small Space Fiber Transducer - Titanium	5 - 5,000 g	12-05015	---
FT-116	Low Profile 3 Roller Sensor	5 - 5,000 g	12-05016	---
FT-117	Single Roller Sensing Beam	5 - 5,000 g	12-05017	---

TENSITRON WEB AND BELT TRANSDUCERS

Model No.	Description	Tension Range	Part No.	Price
4260	Single Roller Web Transducer.	2-200 lb.	12-05001	---
E-091-02	Low Force Load Cell with Cyindrical Rollers	1-100 lb.	12-05004	---
E-095-04	Notched Beam Transducer with Cylindrical Roller.	25-250 lb.	12-05007	---
E-200-00	Cantilever Transducer	1-25 lb.	12-05008	---
E-202-00	Pillow Block Load Cell Transducer	25-1,000 lb.	12-05009	---
E-210-00	S Column Transducer	5-250 lb.	12-05010	---
E-415-003	Small Space Transducer with 3 Rollers	5-5000 g.	12-05012	---

OMEGA-NEWPORT INFCS TRANSDUCER SIGNAL CONDITIONERS

Model No.	Description	Part No.	Price
INFCS-000 B	Infinity Basic Signal Conditioner, 115 VAC	12-05023	---
INFCS-001 B	Infinity Basic Signal Conditioner, 115 VAC Analog Out	12-05024	---
INFCS-010 B	Infinity Basic Signal Conditioner, 115 VAC Dual 5A Relays	12-05025	---
INFCS-011 B	Infinity Basic Signal Conditioner, 115 VAC Analog Out & Dual 5A Relays	12-05027	---
INFCS-100 B	Infinity Basic Signa Conditioner, 230 VAC	12-05028	---
INFCS-101 B	Infinity Basic Signal Conditioner, 230 VAC Analog Out	12-05029	---
INFCS-110 B	Infinity Basic Signal Conditioner, 230 VAC Dual 5A Relays	12-05030	---
INFCS-111 B	Infinity Basic Signal Conditioner, 230 VAC Analog Out & Dual 5A Relays	12-05031	---
INFCS-411 B	Infinity Basic Signal Conditioner, 10 to 30 VDC Analog Out & Dual 5A Relays	12-05032	---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

T5 2000 SERIES CABLE TENSIOMETERS

The familiar T5 Tensiometer is a low cost, highly accurate, precision instrument giving cable tension readings covering a wide range. In use, each T5 instrument is calibrated at the factory and is provided with its own calibration chart for the simple conversion of readings into pounds- tension. The charts shown, indicate the riser which must be used to accommodate the various cable sizes and tensions. The T5 is a small, lightweight, precision instrument, durably constructed for long accurate service.

Model No.	Cable Size	Range	Part Number	Price
T5-2002-101-00	1/16", 3/32", 1/8"	10-100	12-01144	---
	5/32", 3/16"	15-150		
	7/32", 1/4"	25-150		
T5-2002-104-00	1/16", 3/32", 1/8"	30-200	12-04805	---
	5/32", 3/16"	30-300		
	7/32", 1/4"	30-300		

TENSITRON ACM CABLE TENSION METERS

Standard Features of all models: • Easy one-hand operation • No interchangeable parts are needed to adapt to different cable sizes • Memory Lock Pointer holds readings until cleared • Calibration chart affixed to back of meter • Durable and made of non-corrosive materials • Weigh approximately 21 oz. Compact design allows engagement of meter onto cables closely routed along floors, flat surfaces and other minimum clearance areas. Models ACM-100, ACM-200, ACM-300, ACM-400 are compact enough to allow use in limited access panels as small as 4" dia.
Attention: Tensiometer Products may not be cancelled or returned.

Model	Part No.	Price
ACM-100 - Designed to measure from 5-100 lbs tension in 1/16", 3/32", 1/8", 5/32" diameter cables.	12-01050	---
ACM-200 - Designed to measure 20-200 lbs tension in 1/16", 3/32", 1/8", 5/32", 3/16", and 1/4" diameter aircraft cables.	12-01051	---
ACM-400 - Designed to measure from 40-400 lbs tension in 3/32", 1/8", 5/32" and 3/16" diameter standard cables.	12-01053	---
ACM-600 - Measures tension from 40-600 lbs in 1/8", 5/32", 3/16" and 1/4" diameter aircraft cables.	12-01362	---

TENSITRON ACX-SERIES DIGITAL AIRCRAFT CABLE TENSION METERS

In its 5th generation of digital aircraft cable tension meters, Tensitron is using the latest technology, software, and design improvements providing unsurpassed accuracy and resolution for numerous material sizes and tension ranges. Select the cable size from the menu, press "Enter", engage the meter, and instantly see the actual numeric tension value on the display while simultaneously a dynamic colored bar graph indicates whether the tension is in the user's acceptable range. **Attention: Tensiometer Products may not be cancelled or returned.**

Model	Range	Res.	Standard Cable Selections	Part No.	Price
ACX-100-1	5-100 lbs	0.5 lbs	1/16", 3/32", 1/8", 5/32"	12-03758	---
ACX-250-1	20-250 lbs	0.5 lbs	1/16", 3/32", 1/8", 5/32", 3/16"	12-03759	---
ACX-250-M-1	20-250 lbs	0.5 lbs	2.0 mm, 2.5 mm, 3.5 mm, 4.0 mm	12-03761	---
ACX-500-1	40-500 lbs	1 lbs	3/32", 1/8", 5/32", 3/16"	12-03762	---
ACX-CWT-1	20-250 lbs	0.5 lbs	CWT-5, CWT-10, CWT-15, CWT-20, CWT-25	12-03763	---
ACX-CMB-1	20-250 lbs	0.5 lbs	1/16", 3/32",1/8", 5/32", 3/16", CWT-5 thru CWT-25	12-03764	---
ACX-CMB-M-1	20-250 lbs	0.5 lbs	1/16", 3/32",1/8", 5/32", 3/16", & 2.0 mm, 2.5 mm, 3.5 mm, 4.0 mm	12-03766	---

LOCOLOC® HAND SWAGER NO. 1-SC

Designed for swaging copper and aluminum 1/16, 3/32, 1/8, 5/32 and 3/16 oval and stop sleeves, plus 7/32 stop sleeves, total of 11 sizes plus the ability to cut up to 7/32 diameter aircraft quality steel cable. A multi cavity hand cable swaging tool with a dozen functions. 26 inches long, weighs 6.5 pounds. Parts list included with each cable swaging tool. To assure proper swaging of Locoloc® aluminum, copper and stainless steel sleeves there is a Locoloc "Go" "No Go" gauge with each cable swaging tool.....P/N 12-12400 ..... ---

LOCOLOC® TRIPLE CAVITY HANDSWAGER

Locoloc® Triple Cavity Handswager is made of 4140 Carbon Steel Hardware for superior longer life. This has 3 cavities for the most commonly used sleeve sizes: 3/32", 1/8", 3/16". Eliminates confusion on the job site. It has an Adjustment Bolt for calibration.
Made in America. .....P/N 12-04960 ..... ---

LOCOLOC® HANDSWAGING TOOL

LocoLoc #1-3-SBHS Hand Swager – This tool is an outstanding small hand tool, and it does a great job of swaging small sleeves. This is a (4) cavity tool, swaging sleeve sizes 1/32", 3/64", 1/16", 3/32" and #12 SEISMIC. Ratchet mechanism will not release until swage is complete. Swages copper and aluminum sleeves only. Usage instructions and swage gauge included in each tool. Each LOCOLOC Swager is supplied with a gauge. Application: Copper Oval Sleeves, Copper Oval Plated Sleeves and Aluminum Oval Sleeves .....P/N 12-00222 ..... ---

LOCOLOC® 0-3/32SC HANDSWAGER

Eye, lap and stop sleeve splicing of cables are made sure and easy with the new handswagers. Design features "over-center" leverage, which transmits a powerful snap-action to the final thrust of the jaws... assuring a tight, clean compression every time. Easy adjustment. Individual replacement parts are available. Parts list included with tool. To assure proper swaging of Locoloc® aluminum, copper and stainless steel sleeves Locoloc® includes a "Go/No-Go" gauge with each cable swaging tool free of charge.
Specifications: • Swages 3/32" oval and 3/32", 1/8" stop sleeves, plus 1/8" stainless steel oval sleeves • Length: 20" • Weighs 4.2 lbs.
P/N 05-22402 ..... ---

NICOPRESS SWAGING TOOLS - 64-CGMP

The 64-CGMP has four grooves and is used for Oval Sleeve in the range of cable sizes from 1/16" through 5/32". The "C" groove is also used for the No. 871-1-C Stop Sleeve. The No. 63V-XPM has three grooves and is used only with Oval Sleeves. For cable sizes 1/8", 5/32" and 3/16".

	Sleeves				Swaging Tools	
Cable Dia	Plain Copper		Zinc Coated Copper		64-CGMP	63V-XMP
1/16	MS51844-42	18-1-C	MS51844-22	28-1-C	X	
3/32	MS51844-43	18-2-G	MS51844-23	28-2-G	X	
1/8	MS51844-44	18-3-M	MS51844-24	28-3-M	X	X
5/32	MS51844-45	18-4-P	MS51844-25	28-4-P	X	X
3/16	MS51844-46	18-6-X	MS51844-26	28-6-X		X

64-CGMP.....P/N 12-02560 ..... ---
63V-XMP .....P/N 12-02561 ..... ---

TO

NO-GO GAGE

There are five measurements required for each pilot and co-pilot seat, these two tools will shorten the time to make these five measurements to minutes..... P/N 12-02861 .....

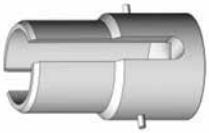
OVAL AND STOP SLEEVE GAUGE 7/32-5/16

To assure proper swaging of Locoloc® aluminum, copper and stainless steel sleeves with Locoloc® tools these simple, "Go" "No-Go" Gauges will determine if your tools are out of adjustment or alignment.
When the proper slot in the gauge slips over the compressed area of the sleeve after swaging then your swage is satisfactory. If the proper slot does not fit over the compressed area of the sleeve after swaging, then your tool is out of adjustment. Your cable assembly will not hold the rated breaking strength of the cable, which should be the result when oval sleeves are used to form a loop or eye in a cable assembly.
Stop sleeves must also be properly compressed and gauged to reach their rated loads which is 1/32 to 5/16 the breaking strength of the cable, depending on cable diameter.
Specifications: • GA-2P – Gauges 7/32″, 1/4″, 9/32″, and 5/16″.
• Made In The USA: Yes .....P/N 13-24627 ..... ---

COMPASS FILLING AID

The compass filling aid is designed to be used for filling most standard aircraft compasses. The standpipe is simply attached to the compass with a supplied special rubber band. The compass is then filled and purged through the standpipe. When all air is removed, and the level in the standpipe is constant, the plug is then installed through the filled standpipe. Thus the need for submerging for proper filling is eliminated.
P/N 12-17604 ..... ---

VENTURI REMOVING TOOL



Venturi extractor tool used on Marvel-Schebler®, MA-3® and MA-4® series carburetors .....P/N 12-01908 .....

THE PEN GRIP - PEN AND TOOL HOLDER

The Pen Grip attaches to almost any surface with double stick tape. Just peel off the backing on the attached double stick adhesive, press firmly onto the surface to which you want it attached and insert your tools. The unique gripping fingers hold all sorts of pens, pencils, & tools in many different positions, even upside down. Like the Tool Grip, The Pen Grip is available in White and Black.
Black .....P/N 12-00961 ..... ---

WIRE SPOON

Features: • Wire threader designed for threading wires into an already tied harness • 300 Series stainless steel construction • Made in America for superior quality. P/N 12-01801 ..... ---

FELCO CABLE CUTTERS

A cable when crushed or deformed is difficult to use with fittings. These fine quality Swiss made cutters, with unique triangular jaws, never leave a frayed end.

Felco No.	Max Cutting Dia.	Length	Weight	Part No.	Price
C2A	2mm	8"	.625 lbs	12-00223	---
C7F	3/16"	8"	.625 lbs	12-01135	---
C9	1/4"	13"	1.6 lbs	12-00179	---
C12	3/8"	19"	3 lbs	12-01174	---
C16	5/8"	22"	5 lbs	12-05133	---

1/4 INCH AIR DIE GRINDER - VT3000

• 1/4" Air Die Grinder - VT3000
• Lightweight - powerful compact design
• VT3000- 25,000 RPM
• All ball bearing construction for longer tool life
• Self-locking safety throttle lever to prevent accidental starts
• Ergonomic positive grip
• Rear exhaust.....P/N 12-02550 ..... ---

1/4 INCH AIR DIE GRINDER - VT3000A

• 1/4" Angle Type Air Die Grinder VT3000A
• Lightweight - powerful compact design
• All ball bearing construction for longer tool life
• Self-locking safety throttle lever to prevent accidental starts
• Ergonomic positive grip
• Rear exhaust.....P/N 12-02551 ..... ---

1/4 INCH AIR DIE GRINDER - VT3001A

• 105° angle type head
• Direct drive - no bevel and pinon gears to maintain
• One piece casting
• Ergonomic design for operator convenience
• Safety throttle lever
• Rear exhaust.....P/N 12-02553 ..... ---

DILLON MECHANICAL FORCE GAUGE

Model X-C comes in nine capacities ranging from 50 lb to 25,000 lb or 50 to 10000 kg. Allfeature accuracy of ±1% of full capacity, except the 25,000 (10000kg) capacity instruments which are accurate to ±2% of full capacity. Load is applied against a hardened ball which rotates to maintain vertical alignment as pressure increases. The ball is held in place with a spring clip or retainer. A threaded mounting hole is located opposite the loading ball in the bottom of the beam. Model X-C is available in pound and kilogram capacities.....P/N 12-03326 ..... ---

DZUS SNOOPY TOOL

Classic tool designed for Dzus fasteners found on warbird and antique airplanes. Tool matches the most common size slots in 1/4 turn fasteners, giving the tool the distinctive "snoopy" shape. This tool is made from heat treated 4130 aircraft steel, with a riveted wooden handle – exact copy of the original tools.
Made in the USA. .....P/N 12-04763 ..... ---

QUICK-CHECK TENSION METERS

The Dillon Quick-Check can be placed on a cable, measure its tension, and removed in under five seconds! There are no complex lookup tables, no conversion charts. The operator can quickly select from 15 different wire sizes and types stored in Quick-Check's memory. The Check-Tensioning mode graphically displays the current and target tensions for extremely quick setting of line tension. Even the infrequent battery changes are quick. The Quick-Check can be employed in many industries to ensure proper tensioning. Typical applications include tower and stack guy wires, pretensioned cable barriers, bridges, elevators, winch rope, overhead electric transit wires, fall arrest systems, aircraft cables and utilities.
Features: • Sheaves with bearings eliminate friction and provide the best accuracy • Accommodates a wide range of wire sizes and styles • Telescoping handle engages meter quickly with minimal effort • Highly visible yellow finish • Easy-to-read display with full-text prompts • Easy to use soft-key interface • Uses popular AA batteries and has long life between changes.
2000 Lb. .....P/N 12-03324 ..... ---
10000 Lb. .....P/N 12-03325 ..... ---

AN VISE JAWS

Generally AN Vise Grips are cheap castings that lack the precision mating surfaces necessary to avoid unsightly tool marks on your fresh hose assemblies. This is especially true with black anodized fittings so prevalent today. Get rid of your old vise jaws and stop using the sharpie to cover mistakes.....P/N 04-03665 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

DEBURRING TOOL

Utilizes a twist-of-the-wrist action for deburring holes and radii. Curved blade automatically follows all contours. Telescoping blade holder extends to reach deep internal holes. Supplied with one #10 and one #20 deburring blade. .....P/N 12-00700 ..... ---

Item	Description and Application	Part No.	Price
#10 Deburring Blade	High-speed steel. For steel, aluminum & smaller holes	12-00800	---
#20 Deburring Blade	High-speed steel. For brass, Bronze, cast iron, larger holes.	12-00900	---
#40 Scraper Blade	High-speed steel. Small triangular blade.	12-01000	---
#42 Scraper Blade	High-speed steel. Large triangular blade.	12-01100	---
#48 Scraper Blade Holder	Holder has 10-32 threads. Accepts #40 & #42 blades. Extends to 3-1/2".	12-01200	---
#50 Scriber	Carbide-tipped scriber.	12-01300	---
#60 Deburring Blade	For backside deburring & for restricted positions	12-01400	---
#70 Deburring Blade	Carbide-tipped blade for deburring edges of sheet metal.	12-01500	---

DEBURRING & SCRAPING KIT

Standard duty kit includes MANGO II Handle, "B" Blade Holder, "C" Blade Holder, B10, B20, B30, B60, B11, B70, C40 blades and the "C" Key .....P/N 12-03194 ..... ---

PRO SERIES STRUT SERVICE TOOL

The Pro Series Strut Service Tool has all the great attributes of the original Strut Service Tool, with the addition of a dual tank and dual check valve design. The longer service hose makes it easy to attach. Strut pressure, fluid and foam is captured in one tank. Clean, foam-free fluid is drawn back into the strut from the second tank. Simplicity, cleanliness and less waste make this tool a must-have. The strut valve core is not removed. .....P/N 12-00677 ..... ---

SPOTFACE KIT

The Spotface Kit tool makes a flat spot for screws. This tool is specifically modified to provide rail cap clearance for use on seat rails. Cutter comes with 1/8", 5/32", 3/16" pilots. .....P/N 05-04429 ..... ---

BALLPOINT HEX SOCKET DRIVER

3/32" Ballpoint Hex Socket Driver for use on hex head screws and nuts. ***This tool is commonly used with most avionics units like Honeywell Bendix/King and Garmin**.....P/N 12-02063 ..... ---

HX STRUT PUMP

Boost air to 1000psi without an air compressor.

- Very portable. No air compressor needed!
- Use air bottle, spare tire, tire pump for source air.
- Can also use with air compressor for air source.
- Detailed instructions.
- Equipped with 7 foot hose.

P/N 12-16710 ..... ---

10X STRUT PUMP

Aircraft Strut Pump 10X delivers up to 1,500 PSI of pressure to raises struts without the need to place the airplane on jacks. Safety one-shot air delivery system gives you maximum control over the entire process -- each stroke of the delivery valve injects a small shot of high pressure air into the strut so that you can raise it in controlled increments. There is virtually no chance of you accidentally overpressurizing and possibly damaging your struts.....P/N 12-03731 ..... ---

15X STRUT PUMP

Boost air or nitrogen to 2250psi.

- More than enough pump for most aircraft.
- Built for shop use or for a discriminating do-it-yourselfer.
- Weighs less than 7 pounds.
- Equipped with a 36" hose.
- Comparable to pumps priced in the thousands.
- Nitrogen adapter makes it easy to use bottled nitrogen.

15X Strut Pump .....P/N 12-16700 ..... ---
Nitrogen Adapter Kit .....P/N 12-02016 ..... ---

STRUT SERVICE TOOL

Service Strut in your Sunday Suit.

- Clean way to service struts.
- Strut valve core is NOT removed.
- Hose fitting releases pressure & fluid into the bottle.
- Raise & lower strut a few times, then apply the charge .....P/N 12-16792 ..... ---

BOGERT PRESSURIZED STRUT FILLER 16M-PSF

Finally a real time and money saver! This tool changes the way landing gear struts are serviced. No longer do you have to put an aircraft up on jacks to add fluid to and fill Oleo type landing gear. This is a totally clean and safe process. No oil is spilled. The strut valve is not disturbed and the plane is sitting on the ground the whole time. This is safe for the technician and the aircraft. **Features**: • It is a convenient, small, compact system, easy to use, and neat to store • Two tank system. One tank contains clean Strut fluid and the other collects the excess • Built in pump forces fluid into the strut to top it off and the excess is drained off controlled right from the unit • Large capacity 5 qt storage tanks are big enough for just about any strut • Can be used on struts requiring up to 3000 psi strut pressure • Made in the USA. Strut Filler.....P/N 12-03166 ..... ---

TO

THE BEUGLER STRIPER PROFESSIONAL PINSTRIPING TOOL

The Beugler tool makes accurate lines consistently, without gravity or pressure, eliminating the need for tape. The unique serrated wheel and wheel head design are the secret to the striper's success. Ideal for any art project, the Beugler Striper is a professional tool used by auto, truck and motorcycle painters around the world. Beugler's magnetic guide securely holds to any steel surface, allowing the striper's guide arm to slide smoothly along its recessed groove for long, accurate, straight, or arced lines. To ensure customer satisfaction, Beugler also offers a 40 minute video tape or DVD with instructions, tips and demonstrations. The Beugler Striper works well with any "creamy" consistency paint. You can stripe at any angle, as the tool is not gravity fed. Both Professional and Deluxe Kits are of the same quality and include guides, clean up brush, 2/3 oz. paint barrel (which stripes 250 to 1750 feet, depending on stripe size) and complete instructions. Length 4-1/4". O.D. 3/4".

Description	Part Number	Price
Deluxe Kit (Includes 3 Srtiping Heads)	12-01696	---
Professional Kit (Includes 7 Srtiping Heads)	12-01695	---

MINI-AIR POWERED VACUUM

Runs off of an air compressor and is simple to use. Just plug it into the air hose using the adapter (included) & start cleaning. The body of the unit is plastic or cast aluminum construction with an 18" clear plastic flex tube that can easily get into tiny spaces to clean. The canvas bag is easily removed. Wt. 8.5 oz.

Mini-Air Vacuum - plastic .....P/N 12-16820 ..... ---
Mini-Air Vacuum - aluminum .....P/N 12-16821 ..... ---

HAND VACUUM/PRESSURE PUMPS

Mityvac vacuum gauges are scaled 0 - 30 inches of Mercury (0 - 100 kPa). Compound gauges included on dual vacuum/pressure converter pumps are scaled 0 - 30 psi (0 - 200 kPa) pressure, and 0 - 30 inches of Mercury (0 - 100 kPa) vacuum. All Mityvac pumps produce vacuum at the front port. Dual converter pumps are capable of producing vacuum or pressure at the front port. A rotating knob on the side of the pump allows the operator to switch between vacuum and pressure. Dual converter pumps include a compound gauge for indicating levels of both. All Mityvac pump vacuum/pressure ports fit standard 1/4" (6.4 mm) ID tubing.

Features: • Produces vacuum or pressure at the turn of a switch • Comfortable ergonomic design • One-finger trigger vacuum/pressure release • Pressure and vacuum are created on the squeeze stroke for superior accuracy and control • Includes durable, accurate gearless diaphragm style compound vacuum/pressure gauge with pinned connection for 360° rotation.

Specifications: • Pump Displacement: 1 in3 (16cc) per stroke • Max. Pressure 30 psi, 207 kPa • Material: PVC • Vol. per Stroke: 1 cu. in. / 16cc • Gauge1: Yes • Dual Converter2: Yes • CE Certified: Yes • Weight: 11.5 oz 326 g • Country of Origin: China, Designed and quality controlled in the USA.

Standard .....P/N 15-08423 ..... ---
Deluxe .....P/N 15-08422 ..... ---

AXIS HVLP PAINT SPRAYERS

The Axis series of paint sprayers is designed to take the guesswork out of choosing a spraying system which can be confusing for the home-builder who is going to paint for the first time. Rather than offer a wide variety of sprayers, Axis has selected the best turbine for each type of product normally used to finish an airplane. This is the SP 2003 (three stage turbine) which is furnished with 30 feet of air delivery hose and the Lexair spray gun. Select one of the three systems shown below based on type of material you will be spraying. If waterborne materials are going to be used, we can furnish systems for this process on a special order basis.

Sys. 2, to paint composite structure.....P/N 12-15930 ..... ---
Sys. 3, to paint over metal or wood .....P/N 12-15940 ..... ---

ACCESSORIES

Lexair Gun.....P/N 12-01385 ..... ---
Hose 40 .....P/N 12-01386 ..... ---

AXIS GUN WITH BOTTOM FEED - QT CUP

Features a heavy duty chrome plated die cast aluminum gun body. The stainless steel needle and nozzle, chrome plated brass air cap, and 6061-T6 anodized aluminum nozzle holder are all CNC machined to tight tolerances. The three position floating air cap offers the ultimate in pattern control. The Pro Series spray gun features and exclusive Teflon packing design for long life and easy adjust-ability. The Pro Series spray gun has no O-rings and is gun washer safe and impervious to all solvents. • Pressurized Cup helps atomize paint better • All Metal Construction • One Quart Bottom Feed Cup • Includes 1.0 Needle/Nozzle .....P/N 12-03321 ..... ---

QUICK DISCONNECT FITTING

Weight: 0.5 lbs .....P/N 12-03320 ..... ---

CITATION HVLP PAINT SPRAY SYSTEM HALF MASK

The Citation HVLP 'twin turbine' system provides both a 'professional quality' paint spray system and the HobbyAir supplied-air respirator in one portable package. This system comes complete with everything you will need to spray exceptionally fine finishes with practcally any material and to breathe in safety and comfort while you work. The basic system includes two 40' airlines (one for breathing and one for painting) and a half face mask. Available options include: A larger two-person Citation system with 3 airlines (two for breathing and one for spraying), Full face masks, and air-supplied hoods. This system comes with an unconditional 1-year warranty.....P/N 12-15900 ..... ---

AXIS HALF FACEMASK ASSEMBLY

Comfortable neoprene half facemask with durable strap assembly provides maximum seal with a wide sealing edge that fits securely against the face. You'll find it's a pleasure to wear. Add a Pullover Painting Hood (P/N 12-03317) and Lens Protectors (P/N 12-03318) for complete head and eye protection. Weight: 2 lbs.

P/N 12-03316 ..... ---

PULL OVER PAINTING HOOD

Durable full protection hood designed to be worn over any Axis Products, Inc. half facemask air supplied respirator system. Large 16" x 6 1/4" viewing area. Air pump supplies seven cfm of cool fresh air which circulates around the hood and exits around the neck. Don't forget to protect your lens with Hood Lens Covers (P/N 12-03318) Caution: This hood is designed to be worn over air supplied half facemask system only!

P/N 12-03317 ..... ---

AXIS AIR SUPPLIED TYVEK PAINTING HOOD

The Air Supplied Tyvek Painting Hood is durable and provides full protection. Large 16" x 6 1/4" viewing area and ratcheting headband for a secure fit are included. When used with any Hobbyair System it will supply cool fresh air to the hood, which circulates and exits around neck. Air flow prevents lens fogging. Don't forget to protect your lens with Hood Lens Protectors (P/N 12-03318).

Painting Hood.....P/N 12-03319 ..... ---
Hood Lens Protectors.....P/N 12-03318 ..... ---

TO

PREVAL SPRAY GUN

Sprays paints, primers, gel coats, lubricating oils, cleaners, zinc chromate, etc. The Preval Sprayer is a professional grade spray system that is good for countless applications. It's disposable, recyclable, easy to clean, and, best of all, no compressor is needed. The Preval Sprayer's patented venturri vacuum process pulls liquid from any compatible, removable, and refillable container and delivers a professional-grade spray stream to virtually any surface. It's amazing.

- Easy replacement and cleanup with interchangeable and disposable parts
- Customize your color or use with the medium of your choice
- Store media in containers for easy reuse
- Great for DIY projects
- Professional- grade finish

#267 Complete Set.....P/N 09-00339 ..... ---
#268 Power Unit .....P/N 09-00340 ..... ---
#269 Product Container.....P/N 09-00341 ..... ---

PREVAL PROPACK SPRAY SYSTEM

Deliver twice the spray with the Preval Pro-Pak : two complete Preval Spray Systems in one money-saving package. Each versatile Preval sprayer is made in the USA and delivers 16oz. of almost any paint or liquid, offering unparalleled versatility for small projects and touch ups.

In The Box:
2 – Preval Sprayer Units
2 – Glass bottles
2 – Long dip tubes.....P/N 09-04560 ..... ---

PREVAL VALPACK SPRAY SYSTEM

Preval Sprayers' best value for your workshop, garage, job site and around the house.
The Preval Val-Pak is a complete assortment of Preval Sprayers and sprayer accessories. This cost-effective kit provides everything you need to apply multiple types of paints, chemicals, finishes, coatings and most other liquids in a multitude of prep, touch up and maintenance applications.
Ideal for commercial use and DIY projects, every Preval Power Unit atomizes up to 16oz. of virtually any liquid.
Included with the Val-Pak kit are accessories and extra bottles that enable you to switch easily between different liquids for different projects, then store the remaining material in the reservoirs for later use.
Easy to clean. Each Power Unit can be reused for multiple applications.
In The Box:
• 1 – Preval Sprayer with bottle and tubes • 1 – Preval vGrip • 2 – Preval Replacement Power Units • 8 – Spray buttons • 4 – 6oz. glass reservoirs • 4 – 6oz. plastic reservoirs (solvent proof) • 4 – 3oz. plastic reservoirs w/cap (solvent proof) • 8 – Bottle lids • 4 – Short dip tubes • 16 – Long dip tubes
Made in the USA. .....P/N 09-04531 ..... ---

PREVAL UNIVERSAL VGRIP HANDLE

vGrip Universal Handle is a 2-in-1 gun handle and ergonomic trigger that snaps onto the Preval Sprayer with ease. Also attaches to any other standard aerosol can. (handle only). This is a replacement part for the Preval Valpack (09-04531).
P/N 09-04563 ..... ---

INSPECTION MIRRORS AND MAGNIFYING MIRRORS FOR ALL-ANGLE VIEWING

Double ball-joints of tempered spring steel move freely, hold desired position for viewing to 360°. Mirrors have brushed stainless steel backs and insulating vinyl grips. Refill mirrors available.

Description	Size	Length	Part No.	Price
A-2 Circular Pocket mirror	7/8" Dia.	7.5"	12-01080	---
A-2M Circular Magnifying Pocket mirror	7/8" Dia.	7.5"	12-01081	---
B-2 Oval Pocket mirror	1" x 2"	8.5"	12-01169	---
C-2 Circular Telescoping Mirror	2-1/4" Dia.	10" to 14"	12-01175	---
C-2M Circular Magnifying Telescoping Mirror	2-1/4" Dia.	10" to 14"	12-01176	---
K-2M Rectangular Magnifying Telescoping Mirror	2-1/8" x 3-1/2"	11.25" to 14.25"	12-01152	---
K-2 Rectangular Telescopic Inspection Mirror	2-1/8" X 3-1/2"	11-3/8" to 15-1/4"	12-05311	---

Description	Part No.	Price
HTE-2 with 1.25" mirror for viewing in tight areas telescopes from 6.5" to 35"	12-01090	---
HTC-2 with 2.25" mirror for viewing in less restricted areas telescopes from 6-1/2" to 36-3/8".	12-01089	---
HTS-2 Circular Telescoping Mirror Dia. 3-1/4" Length 6.5"- 29". Double ball-joints of tempered spring steel move freely, hold desired position for viewing to 360°	12-01091	---
HTC-2LT with 2.25 LED case illuminates darkened areas - two lithium batteries included. All-angle ball joint holds lighted mirror head firmly for perfect viewing textured cushion grip will not slip in wet or oil hands. Stainless steel handle telescopes from 6-3/4" to 37"	12-01979	---

ACCESSORIES

Mirror Size: Dual 1"x2" Weight: 2 oz.
Refill mirror for 1" x 2" oval inspection mirrors.
P/N 12-01084 .....

THE INSPECTOR ADJUSTABLE LIGHTED INSPECTION MIRROR

No more trying to aim a flashlight at the old style mirror. Inspector is a one–hand tool that comes with a very bright light that illuminates the total inspection area. Easy to adjust the mirror angle. Once inserted into the inspection area, simply push or pull the thumb knob for a 90° mirror angle adjustment. The product is constructed of non-conductive materials for safety. The mirror, lamp, and 2–AA batteries (included) are easily replaceable.
Inspector Replacement Lamp...P/N 12-15110 ..... ---
Inspector Replacement Mirror ..P/N 12-15115 ..... ---

TO

VAC BLAST PORTABLE VACUUM BLASTER

This portable 28-gallon vacuum unit blasts, removes and recycles abrasives in one operation. It works with glass beads, aluminum oxide, steel grit, garnet, plastic grit, walnut shells, corn cobs and more. Rolls easily on 6-inch wheels. What's included: (1) 28-gallon vacuum blaster (1) 8-ft. air and vacuum hose (1) Gun and brush assembly (1) 6-ft. power cord (2) Wheels (1) Replacement nozzle. **Specifications**: Operating PSI: 115 - 140 (Max), Capacity: 28 gallons, Vacuum moter: 1100 watt, 120V, 1.5 HP, Air Consumption at Load (CFM): 15 at 80 PSI, Body Material: Steel, Body Finish: Powder-coated, Recommended Media: Glass beads, aluminum oxide, steel grit, garnet, plastic grit, walnut shells, corn cob, Hose length (ft.): 8, Nozzle Size (in.): 1/4, Tire Size (in.): 6 Dimensions L x W x H (in.): 15 x 15 x 41, Manufacturer Warranty: 1 year limited warranty, Ship Weight: 88.0 lbs.....P/N 12-02647 ..... ---

MONSTER BLAST CABINET

The Monster Blast Cabinet is constructed of 14-gauge steel for strength and durability. It features a built-in dust collector and large work area to handle bigger pieces. Foot pedal control and side-mounted light switches for easy control. What's included: (1) Blast cabinet (1) Blast Gun (4) Nozzles (two 7/32in., two 9/32in.) (1) Air regulator (2) Blast gloves (1) Foot pedal (4) Fluorescent lights (5) Extra window and (5) extra light underlayment sheets. **Features**: Large front door for easy loading. Heavy-duty 90 CFM dust collector improves visibility during blasting. Rear-mounted dust collector saves floor space. Convenient foot pedal operation. Large work area. Large viewing window: 30 inches x 15 inches. Heavy-duty steel grate holds up to 400 pounds! 4 fluorescent bulbs provide a very bright work area. Monster-sized 443 pounds! Heavy-duty 14 gauge steel has a resilient powder-coated finish. Gas-charged hydraulic hinges provide smooth and easy opening / closing Power controls are lighted and within easy reach on side of cabinet Blast-gun hook inside cabinet.

P/N 12-02648 ..... ---

BLASTING ABRASIVES

Removes paint/corrosion/rust from military, commercial and private aircraft while preserving anodized and alclad surfaces. Customers and usages include: Bell Helicopter Textron, U.S. Air Force, U.S. Navy, U.S. Marine Corps, U.S. Army, Pratt & Whitney, Commercial Airlines(MRO), FAA Repair Stations, turbine blades. **Note: Priced and sold in 25 lb bags.**

Model No.	Description	Part No.	Price
T-2 Urea	T-2 Urea, with a Barcol Hardness of 54-62, is our most versatile plastic blast media. It is highly suitable for a broad range of cleaning and stripping applications, including aircraft, automobiles, marine vessels, trucks, and trailers. Superb results can be expected in the removal of paints, anti-corrosion coatings, hydrocarbon deposits, waxes, oils, adhesives, and sealants, to name a few. T-2 for optimum results on a variety of applications!	12-03810	---
T-3 Melamine	T-3 Melamine, with a Barcol Hardness of 64-72, is our most aggressive, fast blast media. It is highly suitable for a broad range of cleaning and stripping applications, and is highly desirable for replacing glass beads and other harsh abrasives. Best results can be expected in the removal of stubborn paints, printers, hydrocarbon deposits and other hard materials such as molds, engines, iron, and steel. T-3 for maximum aggression and performance on harder substrates!	12-03811	---
T-5 Acrylic	T-5 Acrylic, with a Barcol Hardness of 46-54, is especially suited for a broad range of applications that require high stripping rates coupled with the need to insure surface integrity. T-5 Mil Spec media meets or exceeds the requirements set forth in Mil-P-85891A. Ideal for aircraft components, it is also excellent for powder coating removal from pultruded aluminum parts, thin fiberglass components, thin gauge metals, and of course, aircraft components. T-5 Mil Spec for optimum results where surface integrity is a must!	12-03812	---

CABINET BLASTERS

100 CFM dust collector included with all steel cabinets. HD 14 gauge steel - welded seams. Full width top door. Optional additional side door. Optional foot pedals or ALC pistol grip trigger gun. High quality lined 24" gloves. Cushioned foam armholes.

Specifications: Work Area: 36" or 48" or 60" W x 24"H x 24"D, Height: 60", Door Options: Double Doors, Top Door Opening: 13" x 35", Side Door Opening: 11" x 17", Gun Options: Foot Pedl, Weight: 36" - 272, 48" - 303, 60" - 333.

Cabinet 36".....P/N 12-02563 ..... ---
Cabinet 48".....P/N 12-02564 ..... ---
Cabinet 60".....P/N 12-02565 ..... ---

PORT-A-BLAST SANDBLASTER

The Port-A-Blast sand blast gun is a complete sand blast unit. Fill the container with the abrasive material, connect the gun to your air line and it is ready to go to work. Will operate on air pressure as low as 60 PSI. However, for best results, pressures of 100-500 PSI are recommended. The greater the pressure the faster the cutting. The gun can be used to siphon abrasives or liquids directly from a hopper or bucket, using a flexible siphon tube, and eliminating the 1Qt. container.

Compatible Abrasives: • Silica Sand - the cheapest and most widely used for average work • Glass Beads • Black Beauty Abrasive • Aluminum Oxide Abrasives - for fast cutting and fine texturing and etching • Nut Shell Abrasives - for cleaning and polishing hard under surfaces without scratching • Metal Shot - for removal of hard surfaces such as porcelain.

Port-A-Blast Gun .....P/N 12-00172 ..... ---
Flexible Siphon Tube.....P/N 12-00173 ..... ---
Replacement Ceramic Nozzle.....P/N 12-00493 ..... ---
Steel Nozzle .....P/N 12-05604 ..... ---

DELUXE PORTABLE PRESSURE BLAST SYSTEMS

Model 1000

These Portable Pressure Blasters are designed to make the most efficient use of your air and abrasive supply. These are not inexpensive siphon units. The entire tank is filled with air and sand under pressure. When the nozzle and valve is opened the sand/air mixture is released under tremendous pressure to quickly remove paint, rust, scale and other coatings. These units are 3-5 times faster to use than siphon units. All units arrive complete with air gauge, pressure vessel, sandblast hood, and sandblast hose. Simply fill with abrasive and attach to your air supply and you are ready to begin blasting. Order by Part no.

Spec. Chart	Model 1000
Operating Pressure	60-125 psi
ASME Tank	Yes
Sandblast Hose	10 feet
Abrasive Capacity	100-120 lb.
Nozzle Size	1/8"
Part Number:	12-20735
Price:	---

ABRASIVES – Black Beauty: Economical, fast cutting abrasive. For quick removal of paint and rust. 80# bag....P/N 12-20740 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BLASTING SYSTEMS- TIG WELDERS

DUAL STATION BLASTING CABINET

2 operators can blast simultaneously. No long delays for moving blast items, operator can simply change stations. 2 siphon blast guns. 2 90 CFM dust collectors. 4 Bright florescent tube lights. 2 pairs of 7"x33" blast gloves. 2 Air pressure regulators. 2 Foot pedal controls. 10 Extra protective window underlays. 5 Extra protective light underlays. 8 Extra nozzles - 4 Ea. 6mm and 7mm. Lighted power controls. 1 Year warranty.

P/N 12-04818 ..... ---

BLASTER KIT (F-50)

Use dry abrasives only. Hose length - 7ft. Tank capacity - 50lbs. Free standing open top tank. Maximum 125 psi. 7 CFM@80 psi minimum. Lightweight and portable. Easy setup. Steel nozzles - 13/64", 1/4", 5/16"

P/N 12-02548 ..... ---

BLASTER KIT (F-90)

Use dry abrasives only. Hose length - 10 ft.. Tank capacity - 90 lbs. Strong tubular steel cart. Wheels - 6". Maximum 125 psi. 7 CFM@80 psi minimum. Lightweight and portable. Easy setup. Steel nozzles -13/64", 1/4", 5/16".

P/N 12-02549 ..... ---

TRIPLE DOOR BLAST CABINET

48x24" Triple Door Blast Cabinet

Features: • Full width top door • Two side doors • Foot pedal • Flourescent light • 90 CFM dust collector attached • Pressure regulator • Replaceable window underlays • Includes 4 nozzles • Some assembly required.

P/N 12-02858 ..... ---

BENCHTOP CABINET BLASTER

30x20" Bench Top Blast Cabinet

Features: • Made of tough LDPE polymer • One-piece construction (no leaks) • Self-adhesive underlay • Pistol grip trigger gun • Overside top window/door

Specifications: • Work area: 30"W x 27"H x 20"D • Height: 28" • Weight: 34 lbs.....P/N 12-02857 ..... ---

TIG TORCHES & REPLACEMENT CABLES

TIG TORCH OUTFIT 125 AMP

125 amps, light duty, air cooled torch outfit with flex head, Superflex cable, and 35M dins gas through connector.

P/N 12-00391 ..... ---

REPLACEMENT CABLE

12-1/2 foot Superflex replacement cable for the 12-00391.

P/N 12-00399 ..... ---

TIG TORCH OUTFIT 210 AMP

210 amps, heavy duty, air cooled torch outfit with Superflex cable and 35M dins gas through connector .....P/N 12-00392 ..... ---

REPLACEMENT CABLE

12-1/2 foot Superflex replacement cable for 12-00392.

P/N 12-00401 ..... ---

TIG TORCH ACCESSORY 9 GAS LENS KIT

TigDepot Parts Kits provide all the torch accessories you need to start welding. Parts Kits provide collets, collet bodies, a back cap, alumina nozzles and tungstens in a variety of sizes, all packaged in an easy to carry reclosable box.

Specifications: The 9GL-Kit comes with .040, 1/16, 3/32 Collets, Gas Lens Collet Bodies, Gas Lens Nozzles, (#5, #6, #7), a long Back Cap, and an assortment of 2% Thoriated and Ceriated Tungsten in a convenient plastic box. For the 9 Series torches.

P/N 12-00393 ..... ---

TIG TORCH ACCESSORY 17H GAS LENS KIT

The TigDepot 17H Gas Lens Kit is made specifically for the 210 Amp 17H Torch.

The Kit includes One of each:

• 2% Thoriated Tungsten .040, 1/16, 3/32 DIA. • Alumina cups #5,6,7 • Gas lens .040, 1/16, 3/32 • Collets .040, 1/16, 3/32 • Backcaps-short,medium, long • Insulator • Tool box

P/N 12-00394 ..... ---

BRAZING AND SILICON BRONZE

Tig Silicon Bronze .062 .....P/N 12-00470 ..... ---

TO

TIG WELDING EQUIPMENT & ACCESSORIES

FULL ARM WELDING GLOVES

Full Arm Welding Gloves. Industry First! - 21" glove with heavy duty padding on the forearm and elbow for comfort. Super supple Genuine American Deerskin tanned in U.S.A. Boarhide™ leather heat shield patch, reinforced palm, cuff and lean-on patch. Sock-lined FR (flame resistant) cotton fleece insulated. Boarhide™ leather pull-strap. Sewn with Kevlar® thread. Complimentary 3" carabineer to keep gloves together with exclusive Caiman® loops on each pair. Kontour™ - Exclusive 3-Dimensional, pre-curved fingers, and form-fitting design for ultimate fit, comfort & dexterity. Patches, padding and reinforcements for comfort & protection .....P/N 13-20151 ..... ---

MAGNETIC UNI-JIGS

Magnetic holders for hands-free support in a variety of applications. Designed to last a life time. Each angle is screwed (not riveted) completely through the magnet to insure proper angles.

Small (supports up to 45 lbs.)
P/N 12-05185 ..... ---

Large(supports up to 80 lbs.)
P/N 12-05186 ..... ---

TIG TUNGSTEN

Sold in packages of 10

2% Thoriated
1/16.....P/N 12-00438 ..... ---
3/32.....P/N 12-00439 ..... ---

2% Ceriated
1/16.....P/N 12-00440 ..... ---
3/32.....P/N 12-00441 ..... ---

Pure
1/16.....P/N 12-00442 ..... ---
3/32.....P/N 12-00443 ..... ---

TIG FILLER MATERIALS

36" Cut Lengths are packaged in 1 lb. tubes to provide you the flexibility of buying only what you need for your job.

Base Material	Use Filler	Size	Part No.	Price/Lb.
4130	ER80S-D2	.035	12-00473	---
4130	ER80S-D2	.045	12-00474	---
4130	ER80S-D2	.062	12-00475	---
4130	ER70S-2	.035	12-00477	---
4130	ER70S-2	.045	12-00478	---
4130	ER70S-2	.062	12-00479	---
Aluminum	ER4043	.045	12-00480	---
Aluminum	ER4043	.062	12-00481	---
Aluminum	ER5356	.045	12-00482	---
Aluminum	ER5356	.062	12-00483	---
Stainless Steel	ER312	.035	12-00484	---
Stainless Steel	ER312	.045	12-00485	---
Stainless Steel	ER312	.062	12-00486	---
Stainless Steel	ER308L	.035	12-00487	---
Stainless Steel	ER308L	.045	12-00488	---
Inconel	Nickel 625	.035	12-00490	---
Inconel	Nickel 625	.045	12-00491	---
Super Alloys	Alloy W	MKT	Special Order	**Call**
Titanium	Titanium	MKT	Special Order	**Call**
Magnesium	Titanium	MKT	Special Order	**Call**

CUTTING TORCH ATTACHMENT

Cuts up to 3". Spiral tube mixer design optimizes the mixture of fuel and oxygen. Stainless steel tubes and lever. "A" hose fitting, 3/8"-24 thread.
P/N 12-00448 ..... ---

BOTTLES AND TOTE

12-00449

12-00451

12-00452

Plastic Stand, Oxygen and Acetylene Cylinders - Plastic Cylinder Stand holds "MC" Acetylene Cylinder and "R" Oxygen Cylinder.
Plastic Cylinder Stand .....P/N 12-00449 ..... ---
"MC" Acetylene Cylinder (Empty).....P/N 12-00451 ..... ---
"R" Oxygen Cylinder (Empty) .....P/N 12-00452 ..... ---

COW HIDE GLOVES

These are a good import, not too stiff.
P/N 12-05155 ..... ---

38" LEATHER WELDING APRON

Quick release buckle and cross straps make it very comfortable; it also has pockets..... P/N 12-05160.....

3M™ SPEEDGLAS BLAZED WELDING HELMET 100

3M™ Speedglas™ 100 Welding Helmets deliver outstanding protection, comfort and performance with distinctive graphic designs. Welders can benefit from its excellent optical quality and reliable light-to-dark switching at a highly affordable price. The Speedglas 100 welding helmet can be used with most arc welding processes, such as stick (MMA), MIG/MAG and TIG applications greater than 10 amps. It's also the ideal "entry-level" auto-darkening helmet for occasional users, such as hobbyists, farmers and maintenance or construction workers.....P/N 12-02695 ..... ---

FULL FACE SHIELD

Lightweight headgear, shield flips down over prescription glasses. Good over bifocals.
P/N 12-05175 ..... ---

OXY-ACETYLENE HOSE

3/16" hose that may be used with all welding outfits.

B-B FITTING
12' .....P/N 12-05916 ..... ---
25' .....P/N 12-05917 ..... ---

A-B FITTING
25' .....P/N 12-05919 ..... ---

TWO-IN-ONE 'R' GRADE HOSE FOR ACETYLENE

Green Hose: Oxygen. Red Hose: Acetylene. Length: 12-1/2" (3.8m). Diameter: 3/16" (5mm). Weight: 2-1/2 lbs (1.1kg). Use with AW Torch Series. "A" 3/8-24 & "B" 9/16-18 Hose Fittings.....P/N 12-01198 ..... ---

TO

COBRA STANDARD TORCH KIT

Standard Welding System contains the DHC2000 Welding Torch, #0, #0.5, #1, #2, #3 and Copper Cutting Tip, undercutter, overcutter with guide rail attachment, one set of check valves, a tip cleaner set, wrench, DVD, and instructional manual.
P/N 12-16000 ..... ---

COBRA HENROB WELDING TIP - #0

P/N 12-16011 ..... ---

SMITH WELDING OPTIONAL EQUIPMENT

SERIES 30™ TWO STAGE REGULATORS

H1421A-510 for Acetylene, 0-15 PSI
P/N 12-01186 ..... ---
H1410A-540 for Oxygen, 0-150 PSI
P/N 12-01185 ..... ---
For the professional. Heavy duty, w/check valves.

AC309 AIRLINE™ - STANDARD DUTY CUTTING ATTACHMENTS

Cutting capacity up to 3" thick (76mm) steel. Head Angle 90° USE IN: Torch Handles - AW1A, AW10A....
P/N 12-01082 ..... ---

HUNTSMAN FACE SHIELD - Dark green plastic window 8" x 11-1/2" snaps onto lightweight plastic adjustable headband. Permits full peripheral vision during work. Protects against radiation - flip up visor when not in service.
Visor .....P/N 8124D..... ---
Complete Shield.....P/N 12-05100 ..... ---

HUNTSMAN ELECTRONIC WELDING HELMET
Call for prices and information on the new Huntsman Autoview Welding Filters which provide uncompromising eye protection.

SINGLE STAGE REGULATORS

Gas Used: Oxygen Delivery Pressure: 0-100 PSIG, 0-7 Bar .....P/N 12-19300 ..... ---
Gas Used: Acetylene Delivery Pressure: 0-15 PSIG, 0-1 Bar .....P/N 12-19400 ..... ---

STANDARD DUTY TORCH HANDLE - Inlet connections 3/8"- 24 right and left hand, fit "A" size hose nuts. Cuts up to 3" (76mm), welds up to 1/2" (13mm). Covered by the LIFETIME Warranty & Service Agreement. USED WITH: Cutting Attachment - AC309. Welding Tips - AW200 Series, AW400 Series.
P/N AW1..... ---

AW200 AIRLINE™ SERIES OXY-ACETYLENE -

USE IN: Torch Handles - AW1A & AW10A.

For Metal Thickness Up To	Part No.	Price
1/32"	AW201	---
1/2"	AW203	---
1/8"	AW205	---

ONE SINGLE FLINT LIGHTER

P/N 12-01194 ..... ---

TIP CLEANERS

Quality aluminum case with rustproof stainless steel wire. The long spiral cleans a large number of tip styles. A hardened steel file included in each case.
P/N 12-05180 ..... ---

SILVER PENCILS

The best way to mark tubing. Will not corrode tubing and shows up well on greasy tubing. May be used to mark exhaust system without lead cracking
P/N 12-05190 ..... ---

INNOVATIVE PARTS CARTS

Keep parts and pieces from taking off. Cut clutter and down time. Everyone needs one or more - at work or at home, innovative parts carts people become very attached to their parts carts. They 're virtually indestructible. Make users more efficient, productive and better organized - plus they're good looking and customizable.

INNOVATIVE PARTS CART A™

- Industry's easiest-nesting /catalog.
- Perfect size for "lighter-hit" jobs.
- Makes a great portable workstation.
- High-carbon, heat-treated steel shelf . brackets for years of trouble-free use.
- All shelves have upper side rails to prevent parts slide-off.
- Four industrial grade total-lock caster wheels for mobility; zero movement when locked.
- Durable powder coat finish stays new looking longer.
- Shown with optional Shelf Mat.
- U.S. Patent #7,314,413
- Other Patent Pending.
- Dimensions: 42"W x 31"D x 44"H
- Shelves measure 40"W x 24"D
- Shelves adjust every 3"
- Weight rated to 125 lbs. per shelf
- Includes: 2 adjustable shelves, 2 adjustable support arms, 2 bungee cords, 6 metal hooks
- 73 lbs. ....P/N 12-02023 ..... ---

INNOVATIVE PARTS CART B™

This best-selling cart features an open design and 30 percent more shelf positions than most carts. It is ideal for major teardowns and repairs. The cart shelves can be easily adjusted to accommodate various parts. High-carbon, heat-treated brackets support each shelf up to 125 pounds. Multiple parts carts can also be nested and easily stored, saving you space. There's no need to flip or reverse the shelf for nesting multiple units.

- U.S. Patent #7,314,413, 7,708,156 & other Patents Pending
- Dimensions: 41″W – 51″W x 31″D x 75″H
- Shelves measure 40″W x 24″D
- Shelves adjust every 3″
- Weight rated to 125 lbs. per shelf
- Includes: 3 adjustable shelves, 2 adjustable support arms, 2 bungee cords, 6 metal hooks
- 100 lbs. ..P/N 12-02024 ..... ---

INNOVATIVE PARTS CART C™

- Easiest shelves in the industry to adjust.
- Provides 32 sq. ft. of shelf space!
- High-carbon, heat-treated shelf brackets for years of trouble-free use.
- All shelves have upper side rails to prevent parts slide-off.
- Durable powder coat finish stays new-looking longer.
- Shown with optional RO Holder.
- U.S. Patent #7,314,413
- Other Patent Pending.
- 42"W x 50"D x 75"H
- Shelves measure 40"W x 24"D
- Shelves adjust every 3"
- Weight rated to 125 lbs. per shelf
- Includes: 6 adjustable shelves, 4 adjustable support arms, 2 bungee cords, 6 metal hooks
- 152 lbs. ..P/N 12-02025 ..... ---

TO

AIRCRAFT SCALES – TEST EQUIPMENT

PRECISION AIRCRAFT SCALES FOR ACCURATE WEIGHT & BALANCE

Checks aircraft weight and balance after modifications or fitting of new accessories. Flight safety is improved by periodic weighing to verify weight and balance is within limits. Simply roll the aircraft up the ramps onto the scales or jack the wheels and slide the pads under tires. A single high performance strain gauge load cell is in each pad. Temperature compensation prevents zero shift or sensitivity changes. Weighing pads, indicator and cables are color coded for easy match up. Include one 3 channel indicator, three colored cables, one 110V battery charger cable, three ramps, and six tire stops. Also includes a case.

Part No.	Capacity	Price
12-16711	2,500 lbs. per pad	---
12-16715	6,000 lbs. per pad	---
12-16721	10,000 lbs. per pad	---
12-16725	15,000 lbs. per pad	---
	OPTIONS	
Part No.	**Description**	**Price**
12-16730	Extra cable, colored	---
12-16735	Extra ramps, small, set of 3	---
12-16740	Extra ramps, large, set of 3	---
12-16745	Extra tire stops (chocks)	---

BARFIELD DIGITAL TURBINE TEMP TEST SET

The Barfield TT1200A is a Digital Turbine Temperature Test Set. It is microprocessor based, completely self-contained, battery powered unit housed in a high visibility ruggedized enclosure. It is designed with sufficient accuracies and range to be able to test digital and glass cockpit indicators with simple operation, direct reading, and multi-function versatility. The TT1200A is specifically designed to accomplish all requirements for testing the aircraft Chromel/Alumel (K type) turbine temperature measuring systems. The Test Set can measure resistances down to 0.001 ohms, measure insulation up to 200M ohms, perform indicator run-outs with a resolution of 0.1°C or 1°C and a range of 1372°C.

P/N 11-13986 .....

SCALES 4 PLANES

2,000 lb scale measures 11-3/4" x 15-1/4" and is made of cast aluminum. The electronic display has been recessed into the top to keep it out of harms way. Your tire will be positioned parallel to the display to allow the readout to be clearly seen on the outboard side of the tire, or wheel pants. The scale top is powder coated gray. The coating makes cleanup quite easy because most everything will wipe right off. The units are not water proof. They should never be washed by hose or high pressure, but gentle hand cleaning should be all that is needed.

Model No.	Description	Part No.	Price
AWS-6K-REM	A set of 3-2k with remote display	12-03801	---
AWS-9K-REM	A set of 3-3k with remote display	12-03803	---
AWS-15K-REM	A set of 3-5k with remote display 12" x 16"	12-03805	---

AEROWEIGH AW-3-150LT LAPTOP / TABLET

Aeroweigh AW-3-150LT Wireless aircraft weighing equipment designed for large turbo props, large corporate jets and commercial airliners. Full wireless operations via laptop/tablet computer, USB antenna, 3ea wireless 50,000 lb top of jack aircraft scales, standard one inch jack mounting, calibrated with OEM NIST traceable calibration, ready to use as received. This is a large aircraft scale, it is intended for use from the Bombardier 600 series, Hawker 800 and up. This scale type is supplied to the OEM aircraft manufactures like Gulfstream, Bombardier, Dassault Falcon and regional airliner use. It is capable of aircraft up to the large single aisle jets.

Features: • Solid stainless steel top of jack load cells, each cell is capable of up to 50,000 lb and reads in a 5 lb count.
• 300ft range or more, operations and read out via the laptop computer which is included, capable of printing a full report, graphics are supported for enriched print outs including company logos.

P/N 12-05422 ..... ---

AEROWEIGH AW-3-30HH HANDHELD WIRELESS AIRCRAFT WEIGHING SYSTEM

Aeroweigh AW-3-30HH Wireless aircraft weighing equipment designed for turbo props and light jets up to 10,000 lbs per jack point, wireless operations via Hand Held Transceiver with built in antenna, 3 each wireless 10,000 lb top of jack aircraft scales, standard one inch jack mounting, calibrated with OEM NIST traceable calibration, ready to use as received. This is a helicopter, small turbo prop and light jet aircraft weighing system. One of the lightest aircraft scales available of any aircraft weighing kits on the market.

Features: • Solid stainless steel top of jack load cells, each cell is capable of up to 10,000 lb and reads in a 1 lb count • 300ft range or more, operations and read out via the hand held transceiver which is about the size of a large cell phone, this is a standard scale system with read out showing total weight with individual channel displays.

P/N 12-05423 ..... ---

AIRCRAFT SCALES M2400-3-10KP WIRELESS AIRCRAFT WEIGHING PLATFORM KIT

Aircraftscales M2400-3-10KP Wireless aircraft weighing platform kit is designed for most aircraft wheel weighing applications in the 10,000 lb per wheel and under category. Full wireless operations via 11.4 inch laptop computer (included) USB antenna, software pre loaded. 3 each wireless 10,000 lb aircraft platform scales, 30 inch long 7 degree aluminum ramps for easy pull up are included, calibrated with OEM NIST traceable calibration, ready to use as received. This is a small to medium aircraft platform weighing scale kit, widely used in small to large FBO operations, a must have for the small shop and 135 operators.

Features: • This kit features full function platform weighing capability for most small to medium aircraft that require to be weighed on platform aircraft weighing systems • Full wireless • No cables • Laptop power is capable of system operations for over 3 hours of use on a single charge. • Platform batteries are field replaceable and available anywhere in the world .....P/N 12-05424 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BEADBUSTER XB-455™

The BeadBuster XB-455 was designed to work on even the most difficult tires, which means it can make quick work of all general aviation light aircraft tires. An innovative new design requires no adjustment for different sized rims and no floor space required to set up. Precise, powerful control will ensure professional results without damaging rims. Change your own tires whenever, and wherever you want. Weight 3 lbs. Dimensions 6 x 6 x 1.75 in.
Rim Lip Width (clamp opening): 1.70" • Max Rim Lip Thickness: 0.63" • Rim Diameter: Any • Rim Width: Any • Rim Material: Any • Max Ram Extension (throw): 1.438" .....P/N 12-04707 ..... ---

TIRE BEAD BREAKER

Once the tire & wheel have been removed from the airplane, the air is let out of the tire. The "Tire Bead Breaker" is used to break the bead or bond between tire and wheel. The "TBB" let you safely break this bead almost without effort & with- out doing damage to the expensive cast wheels. One broken wheel half can easily cost more than the "Tire Bead Breaker"! The "Tire Bead Breaker" adjusts to fit tires as small as tailwheel tires and as large as those tires found on large, corporate cabin planes. Can be used on both tube and tubeless tires.....P/N 12-16790 ..... ---

TIRE BEAD BREAKING TOOL

Tire Bead Breaking Tool (TBBT-2) Designed for the Homebuilt Aircraft, and GA owners. Unique design leverages the power of the mechanical advantage of the clamp technology used in the Experimental Aero's Deep Reach Dimpling Tool (DRDT-2) and makes breaking your tire bead even easier. Has a significantly lower operating force (2.5 to 4 times). You can even operate the TBBT-2 on your work bench. What this means is you can now break the bead without breaking your back.
P/N 12-06272 ..... ---

BOGERT LARGE BEAD BREAKER 13M-TBB2

Break tire beads safely, with little effort! Originally built to work on dragster tires, this Tire Bead Breaker is capable of working on very small to very large tires. It's extremely adjustable! The Tire Bead Breaker is used to break the bead or bond between the tire and wheel with little effort and without doing damage to the expensive cast wheels.
P/N 12-03577 ..... ---

TIRE BEAD BREAKER

The universal design of this tire bead breaker accommodate tube type and tubeless tires. It is easily adjustable for a wide range of tire sizes up to as large as tires for Twin Beech and Aero Commanders. Features all steel construction.
P/N 13-02360 ..... ---

VALVE CORE REMOVAL TOOL

Boxell Aerospace 968RB Safe Core Valve Tool. Aircraft Tire Valve Core Removal Tool. Used for rapid and safe tire deflation. Tool threads on valve stem. Releases and traps the valve core within the tool but exhausts the air through ports. Prevents Injury to Technician and FOD (stops the valve core from becoming a missile!) Air exhausts away from technician. Fits all standard aircraft tire schrader valves (equivelant to US Automotive valve stem). 100% Lifetime Warranty. Made In the USA.
P/N 12-03428 ..... ---

BERINGER SENSAIR TIRE PRESSURE MONITORING SYSTEM

The new Sensair system is connected to a mobile app on your smartphone thanks to pressure and temperature sensors slid over your Beringer rim. Sensors are normally switched off to save the battery (2 to 3 years lifetime) and are activated when the smartphone is detected within a 10ft/3m radius. Sensair communicates data to the app with a single code per wheel, so there is no risk to measure the data of another tire in the hangar. Low pressure and temperature levels are set by the user on his smartphone, so he can receive a notification.
No need to ramp under your plane to check pressure anymore, thanks to Sensair, you can check your pressure before and during each flight!"

Description	Beringer P/N	Part No.	Price
5" Experimental Use Only	TP-005	06-04226	---
6" Experimental Use Only	TP-006	06-04224	---
5" Certified - For use with STC	TP-005	06-04225	---
6" Certified - For use with STC	TP-006	06-04223	---

ACCUGAGE PROFESSIONAL TIRE GAUGE

This very accurate bourdon tube tire gauge offers precision pressure control and a rugged steel case with rubber shock-absorbing cover. It comes complete with a 12" long flexible braided hose, a bleeder valve, and stop hand. It is easy to read the pressure on this 2" gauge with 1" psi markings and 60 lb. range. Excellent for use on aircraft tires as well as cars and trucks.
P/N 13-00437 ..... ---

ANALOG TIRE GAUGE

Tool Testing Lab's backlit digital gauge reads in PSI, InHg, Oz, SqIn, Inches or Feet, H2O, Kg, sqCm, Kpa, and Bar, with ½% tolerance and as fine as 0.1PSI resolution. It also holds peak readings, and features a built-in bleeder valve. Features: 300 PSI gauge, Accuracy 1% Full Scale 300 PSI Rated Hose Rubber Boot, Dual Foot Chick, Swivel Footing on Gauge. 0-160 PSI.
P/N 12-03345 ..... ---

TTL DIGITAL TIRE PRESSURE GAUGE

Ensure a safe flight by checking aircraft tire pressure with an accurate, certified Tool Testing Lab pressure gauge. The TTL Digital Aircraft Tire Gauge has a +/- 0.25% FS accuracy for the most precise jobs. Gauge Size: 3" 1/4 NPT; Gauge Orientation: Inverted. Pressure Range: 0-300 PSI.
P/N 12-05314 ..... ---

TTL ANALOG TIRE PRESSURE GAUGE

TTL Inverted tire pressure gauge with included protective boot is a direct gauge replacement for TTL-300-ATG-I. Pressure Range: 0-300 PSI
P/N 12-05315 ..... ---

TTL DIGITAL AIRCRAFT TIRE MASTER KIT

Ensure a safe flight by checking aircraft tire pressure with an accurate, certified Tool Testing Lab pressure gauge. Along with certification, this Master Kit includes quick connect dual foot chuck, long and short straight chuck, and tire tread depth tool. Range (C): 300 PSI.....P/N 12-05316 ..... ---

TTL ANALOG TIRE INFLATOR

This inflator provides accuracy and safety with an over pressure blow-off valve, 1% accurate gauge, bleeder valve, clip-on chuck, and inflation control ball valve Pressure Range: 0-300 PSI.
P/N 12-05317 ..... ---

TTL DIGITAL TIRE INFLATOR

This inflator provides accuracy and safety with an over-pressure blow-off valve, 0.25% accurate gauge, bleeder button, clip-on chuck, and inflation control trigger valve. Pressure Range: 0-300 PSI.
P/N 12-05318 ..... ---

TTL ANALOG AIRCRAFT STRUT GAUGE

TTL analog aircraft strut gauge provides you with the needed accuracy when dealing with strut inflation. This kit includes the necessary strut fitting, soft seat valve, and air bleed valve to get the job done right. Pressure Range: 0-3000 PSI.
P/N 12-05319 ..... ---

TO

MEYER AIRCRAFT JACKS

MEYER HYDRAULICS AIRCRAFT JACKS

Meyers Hydraulics have been recognized as the industry standard for aircraft jacks for over 25 years. Professional mechanics rely on the AJS Jack Set for applications requiring heavy-duty lifting capacity, smooth maneuverability, and reliability. Refer to the Application Chart below for the components required for your aircraft, and then order from the price list accordingly.

Aircraft	Jacks	Tailstand	Legs	Tubes & Caps
Aero Commander	(2) A-6	(1) ATS	(2) AJL	(2) AT-4
Beech: Model 50, King Air, Queen Air	(2) A-6	---	---	---
	(1) A-5	---	---	(1) AT-3
Beech: Bonanza, Debonair, Travelaire, Baron	(2) A-5	(1) ATS	---	---
Mooney	(2) A-5	(1) ATS	---	---
Piper: All except Navajo & Aerostar	(2) A-5	(1) ATS	---	---
Piper Navajo & Aerostar	(2) A-6	(1) ATS	---	---
Cessna: Cardinal RG	(2) A-6	(1) ATS	---	(2) AT-4
				(2) ATC-8
Cessna: All high wings RGs exce pt Cardinal	(2) A-6	(1) ATS	(2) AJL	(2) AT-4
				(2) ATC-8
Cessna: All 300 & 400 Series	(2) A-5	---	---	(2) AT-28
				(3) ATC-4
Navion	(2) A-5	(1) ATS	---	(2) AT-28

Part No.	Description	Price
12-21405	A622 W/ AT62222 & JPR1	---
12-21415	ATS Tail Stand	---
12-02281	A427 Jack w/ AT42727 (27"/46")	---
12-21435	AJL Leg	---
12-21440	AT-1 Tube	---
12-21445	AT-2 Tube	---
12-21455	AT-3 Tube	---
12-21460	AT-4 Tube	---
12-21465	AT-28 Tube	---
12-21470	ATC-4 Cap	---
12-21475	ATC-8 Cap	---
12-04981	AJL-ZB 8 Leg	---

AJS	Height Ranges
A-5 w/AT-1*	22"/36"
A-5 w/AT-28	28"/42"
A-5 w/AT-3	34"/58"
A-6 w/AT-2*	34"/58"
A-6 w/AT-4	54"/78"
A-6 w/AJL	Legs+10"
ATC-4 Cap	+1 to 4"
ATC-8 Cap	+1 tp 8"
ATS Tailstand	30"/51"

(*) ATC Caps will not work on these tubes.

MEYER TRITASK AIRCRAFT JACK SETS

This has been designed to provide professinal technicians with the selection of equipment that best matches their own needs. It has a unique combination of aircraft jacks and accessories to lift the maximum number of different types of airplanes and helicopters weighing up to 8000 lbs. (3629kg) for the least amount of capital investment.

BASIC SET: • 2) A622 Jacks w/AT62222's and AT-JPR1's • 2) A634 Jacks w/AT63434's and AT-JPR1's • 1) AJL-ZB Extension Leg Set (8 legs) • 1) AT-EBZA Extension Bar Set • 2) AT62234 Inner Slide Tubes • 2) AT63448 Inner Slide Tubes • 1) ATS Aircraft Tailstand
P/N 12-04777 ..... ---

DELUXE SET: • 1) A600JS-A TriTask Basic Aircraft Jack Set • 1) A622 Jack w/AT62222 and AT-JPR1 • 1) ALW-10 Leveling Washer Set • 1) AT-EBZB Extension Bar Set • 1) AT62234 Inner Slide Tube
P/N 12-04778 ..... ---

PREMIUM SET: • 1) A600JS-A TriTask Basic Aircraft Jack Set • 2) A627 Jacks w/AT62727's and AT-JPR1's • 1) ALW-10 Leveling Washer Set • 1) AT-EBZB Extension Bar Set • 1) ATS-AA72 Extended Inner Slide Tube .....P/N 12-04779 ..... ---

A700 3-LEG SERIES AIRCRAFT JACKS

The heavier piston, turbo-prop and jet powered aircraft weighing up to 32000 lbs. (14517kg) are too valuable to consider using anything less than the A700 Series Aircraft Jacks from Meyer Hydraulics. For over 55 years, Meyer Hydraulics have been manufacturing aircraft jacks that continue to set the standard for safe, dependable lifting at affordable prices. This series of professional hydraulic lifting equipment handles airplanes and helicopters with the security and features one should demand in an aircraft jack.

Meyer Model No.	Old No.	Capacity	Low	High	Lifting Range	Part No.	Price
A722B	–	16,000 lbs	22.5"	36.5"	14"	12-05106	---
A722C	–	24,000 lbs	22.5"	36.5"	14"	12-05217	---
A725B	A-2516	16,000 lbs	25.5"	42.5"	17"	12-02669	---
A725C	–	24,000 lbs	25.5"	42.5"	17"	12-05218	---
A728B	A-9	16,000 lbs	28.5"	48.5"	20"	12-02670	---
A728C	–	24,000 lbs	28.5"	48.5"	20"	12-05219	---
A734B	A-17	16,000 lbs	34.5"	60.5"	26"	12-02672	---
A734C	A-1724	24,000 lbs	34.5"	60.5"	26"	12-02673	---
A740C	–	24,000 lbs	40.5"	71.5"	31"	12-05066	---
A755C	A-5524	24,000 lbs	55.5"	95.5"	40"	12-02677	---
A760A		10,000 lbs	60.5"	100.5"	40"	12-05220	---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MEYER AIRCRAFT JACKS

MEYER AIRCRAFT JACK AND EXTENSION LEG

This Series basic design from Meyer Hydraulics has served as the general aviation industry standard for over 55 years. The A600 Series and its redecessors are being used by professional service technicians around the world providing confident lifting of airplanes and helicopters weighing up to 8000 lbs. (3629kg) with the security and features one should demand in an aircraft jack. Even after the additional TriTask features have been added, the A600 Series still continues to be surprisingly affordable.

In the box: • 1 - A634 Jack • 1 - AT-JPRI

P/N 12-04765 ..... ---

MEYER HYDRAULICS EXTENSION BAR SETS

Model No.	Kit Contains	Part No.	Price
AT-EBZA	(2) AT-EB015s; (2) AT-EB035s (2) AT-EB055s; (2) AT-EB075s (2) AT-EB105s; (2) AT-EB125s (not for A755C or A760A)	12-04873	---
AT-EBZB	(2) AT-EB025s; (2) AT-EB045s (2) AT-EB065s; (2) AT-EB085s 2) AT-EB095s; 2) AT-EB115s (not for A755C or A760A)	12-04874	---

Model No.	Description	Part No.	Price
AT-EB015	1.5" (38mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05222	---
AT-EB025	2.5" (64mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05223	---
AT-EB035	3.5" (89mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05224	---
AT-EB045	4.5" (114mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05225	---
AT-EB055	5.5" (140mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05226	---
AT-EB065	6.5" (165mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05227	---
AT-EB075	7.5" (191mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05228	---
AT-EB085	8.5" (216mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05229	---
AT-EB095	9.5" (241mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05230	---
AT-EB105	10.5" (267mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05231	---
AT-EB115	11.5" (292mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05232	---
AT-EB125	12.5" (318mm), for A600 & A700 Series Jacks (not for A755C or A760A)	12-05233	---

MEYER JACKING POINT RECEIVERS

Made of solid steel and powder-coated with a long-lasting yellow finish for easy spotting, these JPR Receivers have been designed to be put into the top of an A600 or A700 Series Aircraft Jack's Inner Slide Tube, an AT-EBnnn Extension Bar or the AT500-CA Conversion Adapter for the A500 Series. The AT-JPR1 is a 1.5" x .187" (38x5mm) pad with a .875" (22mm) round Jacking Point receiving socket. The AT-JPR2 is a little larger with a 1.75" x .375" (44x10mm) pad with a 1.25" (32mm) round receiving socket. Both have a 1" x 1" (25.25mm) round stem.

Model No.	Description	Part No.	Price
AT-JPR1	Meyer Jacking Point Receiver #1	12-05235	---
AT-JPR2	Meyer Jacking Point Receiver #2	12-05236	---

MEYER A500 SERIES LOW AIRCRAFT JACKS

This Series has an ultra-low design that provides maximum single stage stroke while maintaining excellent stability throughout the lifting range. These Aircraft Jacks are ideal for low-slung airplanes and helicopters weighing up to 8000 lbs. (3629kg).

A514 - height range14"-24" .....P/N 12-05216 ..... ---
A519 - height range 19"-34" .....P/N 12-02290 ..... ---
A521- height range 21"-38" .....P/N 12-02291 ..... ---

MEYER AIRCRAFT JACK REPLACEMENT SLIDE TUBES

Meyer Hydraulics Aircraft jack Replacement Inner Slide Tubes.

Description	Application	Lift (in)	Part No.	Price
Inner Slide Tube	A427, A62 (Tail Lifting)	28"-47"	12-05234	---
Inner Slide Tube Extension	A419, A421, A519, A521	4"	12-05237	---
Inner Slide Tube	A422	22"-36"	12-21440	---
Inner Slide Tube	A422	28"-42"	12-21465	---
Inner Slide Tube	A422	34"-48"	12-21455	---
Inner Slide Tube	A427	27"-46"	12-05238	---
Inner Slide Tube	A434	54"-78"	12-21445	---
Inner Slide Tube	A434	54"-78"	12-21460	---
Inner Slide Tube Top Conversion Adapter	A419, A421, A500	.875"	12-05239	---
Inner Slide Tube	A622	22.312"-37.312"	12-05240	---
Inner Slide Tube	A622	34.312"-49.312"	12-05241	---
Inner Slide Tube	A627	27.312"-47.312"	12-05242	---
Inner Slide Tube	A634	34.312"-59.312"	12-05243	---
Inner Slide Tube	A634	48.312"-73.312"	12-05244	---
Inner Slide Tube	ATS Aircraft Tailstand	51-72	12-05245	---

MEYER JACK REPAIR KIT

Meyer Hydraulic Jack repair kit for A-5 Jacks (s/n 6417 plus), A-6 Jacks (s/n 5118 plus), A-60 Jacks (s/n 86 plus), A360A, A419, A421, A422, A427, A434. 1 bls (0.5Kg).

Model No.	Application	Part No.	Price
K-150A	A-5 (s/n 1 thru 6416), A-6 (s/n 1 thru 5117), A-10 (s/n 1 thru 51) A-11 (s/n 1 thr 98), A-16 (s/n 1 thru 85), A-60 (s/n 1 thru 85), C-1, C-4, DT-2, F-1, FL-1, JC, JC-ET, JML, LTJ (n/n 1 thru 1531), SSJ, U-11, U-12)	12-05246	---
K-150B	A-5 (s/n 6417 plus), A-6 (s/n 5118 plus), A-60 (s/n 86 plus), A360A, A419, A421, A422, A427, A434, A514, A519, A521, A622, A627, A634, A760A, LTJ (s/n 1532 plus), MAC	12-03246	---
K-175	A-9, A-10 (s/n 52 plus), A-11 (s/n 99 plus), A-12, A-13, A-17, A322B, A325B, A328B, A330B, A334B, A342B, A722B, A725B, A728B, A734B, C-2, F-4, RC-2, SRC, TJC, TTJ	12-05248	---
K-200	A-14, A-15, A334C, A340C, A342C, A355C, A728C, A734C, A740C, A755C, C-6A, P-12, TTJ3	12-05249	---
K-ETJ-2S	ETJ (s/n 2000 plus), EVJ	12-05250	---

TO

AIRCRAFT JACKS

AIRCRAFT JACKING SOLUTIONS FLAT GEAR SYSTEM TAILWHEEL

This simple, safe, and efficient design allows for quick servicing or repair of aircraft wheel assemblies and main gear security.
The new design allows tailwheel aircraft to be raised by the landing gear with lift pads placed at the upper portion of the gear lags. The latter allows both wheels to be lifted together creating a stable much safer working environment. Built-in safety stops prevent unplanned lowering of the jack.
Compatible: • All Cessna Tail Wheel Aircraft • C120 through C185

P/N 12-05611 ..... ---

AIRCRAFT JACKING SOLUTIONS BELLY PAD SYSTEM TAILWHEEL

This simple, safe, and efficient design allows for quick servicing or repair of aircraft wheel assemblies and main gear security.
The cushioned Belly Pad lifting option allows aircraft to be lifted from below the gearbox bulkheads. Lifting the aircraft from below allows the mechanic to inspect the security of the upper gear at the gearbox and to investigate any play or movement.
Compatible: • All Cessna Tail Wheel Aircraft • C120 through C185 • Works on both flat and round landing gear Aircraft.

P/N 12-05613 ..... ---

AIRCRAFT JACKING SOLUTIONS BELLY PAD SYSTEM NOSE GEAR

This simple, safe, and efficient design allows for quick servicing or repair of aircraft wheel assemblies and main gear security.
The cushioned Belly Pad lifting option allows aircraft to be lifted from below the gearbox bulkheads. Lifting the aircraft from below allows the mechanic to inspect the security of the upper gear at the gearbox and to investigate any play or movement.
Compatible: • All known Nose Wheel Cessna, Sling & others • Except C150.

P/N 12-05612 ..... ---

AIRCRAFT JACKING SOLUTIONS FLAT GEAR SYSTEM NOSE GEAR

This simple, safe, and efficient design allows for quick servicing or repair of aircraft wheel assemblies and main gear security.
The new design allows nose gear aircraft to be raised by the landing gear with lift pads placed at the upper portion of the gear lags. The latter allows both wheels to be lifted together creating a stable much safer working environment. Built-in safety stops prevent unplanned lowering of the jack.
Compatible: • All known Nose Wheel Cessna, Sling & others • Except C150.

P/N 12-05610 ..... ---

BOGERT AERO JACK KIT

The Aero Jack System saves time when changing tires or working on landing gear. Use a combination of innovative tools packed in a handy toolbox. Designed by an A&P, for do-it-yourselfers and other mechanics, three kits are available depending on your needs.

Description	Part No.	Price
30M-AJC - Complete Aero Jack System - Service both flat and round gear from a handy toolbox.	12-00254	---
30M-AJF - Flat Gear Aero Jack Kit - Cessna C-120, 140, 150, 170, 172, 175, 188, 182, 190, 195, 205, 206, 336, 337, flat gear 177RG, Piper Tomahawk, Beech Skipper, Champion, Bellanca, and similar landing gear.	12-00681	---
30M-AJR - Round Gear Aero Jack Kit - Cessna C-172RG, 177RG, 182RG, 210, T210, P210, and similar landing gear.	12-00682	---
30M-AJE - Expandable Aero Jack System - Included in the tool box is: Bogert Tribal Jack with all the jack pads. (C210, RG, R, FPP, Moon, Musk, C300). Weight is 30 lbs.	12-02096	---

TRIBAL JACK

Aid aircraft maintenance, such as servicing brakes, working on bearings, or changing tires. Maximum load of 2,500 pounds and can be used on Piper aircraft, Musketeer, Mooney, and many more aircraft with near-vertical landing gear. Lower clearance lifting pad which allows jack owners to begin lifting from a 2 1/2" starting position and up to 12". It can be used on main gear, nose gear and the tail wheel. Made in USA.

Tribal Jack ..... P/N 12-00838 ..... ---
Tribal Jack Pads ..... P/N 12-03536 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BOGERT WING JACK PADS

Jack Pads attach to wing jack points. Follow aircraft service manual instructions for jacking.
Cessna 210, 177RG
P/N 12-03533 ..... ---
Cessna 172RG, 182RG
P/N 12-03532 ..... ---
Beech Musketeer, Sundowner
P/N 12-03535 ..... ---
Mooney M20 Series
P/N 12-03534 ..... ---

BOGERT JACK PADS

Jack pads provide a cradle for the main landing gear legs. The cradle design securely holds the landing gear providing a safe jack point. The adjustable jack pad fits flat spring gear. The round gear jack pad fits the models listed below. • Save time when servicing tires, wheel bearings and brakes • Lift only the wheel instead of the whole aircraft • Eliminate the unsafe practice of stacking wood blocks under a bottle jack • All parts pack away neatly into a sturdy weather resistant toolbox • Made in USA

FLAT PIVOT POINT ADJUSTABLE JACK PAD

• Adjust width, taper and angle adjustment • Adapts to many jacks. Shown with bottle jack • Fits: Cessna C-120, 140, 150, 170, 172, 175, 180, 185. 182, 188, 190, 195, 205, 206, 336, 337, flat gear 177RG, Piper Tomahawk, Beech Skipper, Champion, Bellanca, and similar spring steel landing gear.
P/N 12-00837 ..... ---

ROUND JACK PAD ADJ-R

Jack pads provide a cradle for the main landing gear legs.The ADJ-R has a half round design cradles the landing gear safely. Pivots on a machined bottle jack extension. Use with Cessna C-172RG, 177RG, 182RG, 210, T210, P210, and similar landing gear.
P/N 12-00679 ..... ---

C300 JACK PAD ADJ-300

• Cessna 300, 400 & 500 series • Perfect for the Conquest & Citation • Sold in Singles.
P/N 12-00683 ..... ---

BOGERT JACK EXTENSIONS

• Bottle Jack Extensions will fit any 1-1/4" O.D. ram • Typical 6 ton jack has a 1-1/4" O.D. ram. • Extensions are machined & slide together for easy stacking • Use on aircraft with a jack point pin • Not the same extensions as found in the Aero Jack Kit below • No special jack pad needed on tubular C-152, 172, 182 etc.
1.5" extension.....P/N 12-00156 ..... ---
3" extension.....P/N 12-00157 ..... ---
8" extension.....P/N 12-00158 ..... ---

AUTO JACK ADAPTER

P/N 05-08297 ..... ---

BOGERT AVIATION CIRRUS SR20 / SR22 JACK PAD

This jack pad is designed to thread into the wing jack points for use with wing jacks. Each pad can be used with an aviation wing jack that is made to accept a jack point.
P/N 12-05118 ..... ---

BOGERT CESSNA 337 JACK PAD

This jack pad is designed to thread into the wing jack points for use with wing jacks. Each pad can be used with an aviation wing jack that is made to accept a jack point.
P/N 12-05119 ..... ---

BOGERT BEECHCRAFT B35/58 JACK PAD COMBO

Forget dragging out a full set of wing jacks to do routine maintenance. The 30M-B35/B58 Jack Pad for all Beech Bonanza and Beech Baron aircraft makes maintenance on wheels, brakes, tires and wheel bearings simple and fast. You can do the work just about anywhere. Use the jack adapter and axle pin with any 4-6 ton hydraulic bottle jack to raise main gear and nose gear to fix a flat or do normal preventative maintenance. The system is small and light enough to carry on board so you have the tools you need. **Features**: • Works for Main and Nose Gear • Saves time and money • Adds mission capability • This jack adapter and pin can be used to pick up a flat tire to tire changing height • Frees up full service and wing jacks for other work .....P/N 12-05120 ..... ---

BOGERT BEECHCRAFT B35/58 JACK PAD KIT WITH JACK

Forget dragging out a full set of wing jacks to do routine maintenance. The 30M-B35/B58 Jack Pad for all Beech Bonanza and Beech Baron aircraft makes maintenance on wheels, brakes , tires and wheel bearings simple and fast. You can do the work just about anywhere. Use the jack adapter, axle pin and included Safe Jack 6 ton hydraulic bottle jack to raise main gear and nose gear to fix a flat or do normal preventative maintenance. The system is small and light enough to carry on board so you have the tools you need.....P/N 12-05121 .....

BOGERT CESSNA 340 / 401/ 402 / 4011 / 414 JACK KIT

Forget dragging out a full set of wing jacks to do routine maintenance. The 30M-402-k Jack Kit for all Cessna 340, 401, 402, 411, 414 and 421 aircraft makes maintenance on tires, brakes, and wheel bearings simple and fast. You can do the work just about anywhere. Use the jack pad and hydraulic jack to raise main gear to fix a flat or do normal preventative maintenance. The system is small and light enough to carry on board so you have the tools you need. **Features**: • Works for Main Gear • Saves time and money • Adds mission capability • This jack pad and hydraulic jack can be used to pick up a flat tire to tire changing height • Frees up full service and wing jacks for other work • Frees up hanger space.
P/N 12-05129 ..... ---

BOGERT VANS RV JACK PAD

You asked for them and here they are. This jack pad is designed to thread into the wing tie down holes for use with wing jacks. Pad can be used with an aviation wing jack that is made to accept a jack point or you can use the supplied adapter on homemade wing jack that are popular with home built owners. Pad is sold individually with a jack adapter. **Specifications**: • Fits RV aircraft that have a threaded tie down rings with 3/8-16 threads • Fits RV aircraft that have a threaded tie down rings with 3/8-16 threads • Sold as singles • Made in USA • Pad has 3/8-16 internal threads and grade 10 set screw threads • Pad is 2 inches in diameter • Rubber padded • ¾" Ball jack point • Jack ram adapter fits jack rams up to 1.25 inch diameter • Jack ram adapter is machined steel. Sold as singles • Made in USA •Pad has 3/8-16 internal threads and grade 10 set screw threads • Pad is 2 inches in diameter • Rubber padded • ¾" Ball jack point • Jack ram adapter fits jack rams up to 1.25 inch diameter • Jack ram adapter is machined steel.
P/N 12-05132 ..... ---

AIRCRAFT JACKS

BROWNELL AVIATION JACKS

For over forty years Brownell has been the leading name in boat storage equipment throughout North America and the world. The same commitment comes in our new line of aviation products. Brownell slightly modified our jack stands and dollies to fit the needs of aviation professionals and enthusiasts in order to help make the work place safer and more efficient. All of the products are made in America using skilled American labor and American steel.

- Precision acme threads for easy, smooth adjustment
- Very stable work or storage platform
- Stays in place with no bleeding, etc.
- Small footprint of base and top pad allow for easy access
- Stands stack neatly when not in use to free up valuable space
- TPE surface resists slipping and scratching
- SWL 20,000lbs/9,100kgs

Description	Height Mins (in/cm)	Weight (lb/kg)	Part No.	Price
AS3 w/top	25-38 / 64-97	97 / 15.0	12-03299	---
AS2 w/top	29-46 / 74-117	37 / 16.5	12-03301	---
AS1 w/top	33-50 / 84-127	38 / 17.0	12-03302	---
AS0 w/top	41-58 / 104-147	46 / 21.0	12-03303	---
AS0X w/top	54-72 / 137-183	46 / 22.5	12-03304	---
AS0XX w/top	67-84 / 170-213	50 / 43.0	12-03305	---

BROWNELL AVIATION TAIL STAND

- Precision acme threads for easy, smooth adjustment
- Very stable work or storage platform
- Stays in place with no bleeding, etc.
- Small footprint of base and top pad allow for easy access
- Stands stack neatly when not in use to free up valuable space
- TPE surface resists slipping and scratching
- SWL 20,000lbs/9,100kgs
- 30-52"/76-131cm range
- Universal connection
- Base plate
- Accommodates ballast ..P/N 12-03306 ..... ---

RV JACK STAND KIT

Someday you'll need to jack up your aircraft to install new tires, clean & grease wheel bearings, or fix a flat. This nifty jack stand is safer than using an engine hoist or the wing tie down location. Requires a modification to the axle nuts (about 1 hour). Kit includes the axle jack arm, axle nut modification hardware, & directions to modify the nuts. For hollow axles (Wittman style) Gear only. Uses automotive bottle jack. Jack not included. Not for RV-8s. For RV Gear Legs with Hole in Axle. P/N 12-00634 ..... ---

RV 8 TRAVEL JACK

The RV 8 Travel Jack was designed and manufactured by RV-8 builder / pilot Steve Jackson. All steel construction, weighs less than 3 pounds. Jack mast easily removes from base plate for compact storage. Uses 3/4" wrench to operate (wrench not included). Tested to 1350 pounds. Has securing arm that positions between the gear leg & brake to stabilize the jack - works on both left and right gear leg with a simple adjustment. Base measures 3-1/2" X 8"; mast stands 10" tall. Designed for RV-8 flat spring gear legs (only -- will not work on the other RVs with round gear legs).

Standard .....P/N 12-03170 ..... ---
For Grove Gear .....P/N 12-03243 ..... ---

QUALITY JACK POINTS

Quality Jack Points. (Very high quality jack points for most aircraft wing installations and jacks). These very small, lightweight (less than two oz.) aircraft grade aluminum Jack Points can make jacking your aircraft a simple and safe task. These Jack Points incorporate a grade eight 3/8"X 16 plated stud that fits the wing thread that can't fail causing damage. The heat-treated, aircraft grade aluminum body, is de-burred, and tumbled to eliminate sharp edges and includes an attached nylon spacer to protect the wing skins painted surfaces. These parts are small and light weight so you may want to carry them in your plane should you find the need for them away from home. Sold as a pair .....P/N 05-12379 ..... ---

BEECHCRAFT B90 JACK PAD

The pad is available without the remote bottle jack. The 30M-B90 Jack Pad is great for raising one wheel for a tire change, repacking wheel bearings or servicing the brakes. When used with a long stroke jack, the jack pad may be used to change a flat tire. Small and light enough to carry on board, the jack pad adds mission capability when operating from airports that do not have full service or wing jacks large enough to lift these aircraft.

Features:

- Small, Portable and light weight compared to wing jacks
- Should be used with Bogert hydraulic, 12", 15 ton long stroke bottle jack
- The jack pad can be used with 6 ton, 1¼" ram or larger bottle jacks
- Can be used with 3 ton or larger floor jacks.
- Made in the USA

Jack Pad Only .....P/N 12-03165 ..... ---
Jack, Pad, and Pump Kit .....P/N 12-03184 ..... ---

ALPHA AVIATION 3 TON PRO-LINE JACK

The ULTIMATE in versatile general aviation aviation jacks. When the need is for a versatile jack that can accommodate the needs of a busy FBO, the Model #368W is the choice. The Model #368W combines all the versatility of Model #838W with the necessary fittings to accommodate high wing Cessna aircraft such as 172RG, 177RG, 210. (Models 182RG and 337, see 868HLW), but in a 3 Ton version. Shipped with adapters, the unique design allows the Model #368W to easily convert from a 26" low wing jack through the 32" and 38" levels to a double-braced 62" or 68" high wing jack, avoiding the high cost of having to purchase model specific jacks.

Note: NOT RECOMMENDED FOR: Beech Model 99, Beech 1900, Citation Series, Cheyenne I/II/III/IV, Conquest King Air, Navajo, Pilatus, Queenaire, T28 due to untested side-load situations.

P/N 05-22912 ..... ---

LANDING GEAR SAFETY STAND

The stand slips on over the axle when ever the wheel is removed. Put the nut back on and the plane can't slip off the stand. It adjusts for height with a quick release pin. The wide, stable "H" base is made from heavy gauge square steel tubing for strength, safety and durability. The unique stand is finished in an attractive, bright red powder coat finish. LGSS-2, has a 12" x 12" base with adjustable axle height of 10"-15", and LGSS-3 has an 18" x 18" base with adjustable height of 14"-21.5".

9" Stand .....P/N 12-02015 ..... ---
12" Stand .....P/N 12-00255 ..... ---
18" Stand .....P/N 12-00256 ..... ---

PROP SLING, (BOGI-LIFT)

The tool every mechanic needs!

• Lift nose wheel without jacking up whole plane • Service nose wheel & strut effortlessly • Support a new propeller during installation • Use with 2 and 3 blade props • 4-point stability with tail & wing jacks • Made in the USA.

P/N 12-16718 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ALPHA AVIATION AIRCRAFT JACKS

THREE TON HYDRAULIC AIRCRAFT JACKS

MODEL #324 3 TON LOW WING JACK

Eliminates the frustration of having unstable jacks that conflict with landing gear components and gear doors adjacent to your jack point. These jacks are especially appreciated by owners of Bonanza, Mooney, Comanche, & Twin Comanche Aircraft for the manner in which they may be positioned clear of the inner gear door hinge. Model #324 provides an easy slide under fit on aircraft with lower jack points. • Double action 3 ton (6,000lbs) hydraulic cylinder • Jack point centering cap • Locking safety collar secures the load • Rugged heavy gauge steel construction • Stable three leg design clears gear doors • Convenient handle storage. Effective Range: 24"-40" Ram Capacity: 6000lbs .....P/N 12-01724 ..... ---

MODEL #326 3 TON LOW WING JACK

26" - 43" Eliminates the frustration of having unstable jacks that conflict with landing gear components and gear doors adjacent to your jack point. Owners of BeechCraft Bonanza 33/35/36 aircraft especially appreciate these jacks for the manner in which they may be positioned clear of the inner gear door hinge. If the only plane you'll be lifting is the Bonanza please see Model #324. • Jack point centering cap to assure the aircraft stays on the jack • Double action 3 ton (6,000 lb) hydraulic cylinder • Locking safety collar secures the load • Rugged heavy gauge steel construction • Three leg design clears gear doors • Convenient handle storage. Effective Range: 26"-43" Ram Capacity: 6000lbs .....P/N 13-05544 ..... ---

MODEL #332 3 TON LOW WING JACK

26" - 43" & 32"- 49" Especially suited for use on Cessna 310/320 Aircraft. Supplied with a removable 6" riser to accommodate the higher jack points found on some aircrafts. Similar in design to Model #326, this unique design allows the Model #332 to be easily converted for use as a Model #326 by removing the 6" riser. Owners report this versatility to be of great benefit when aircraft of various types are housed together or the jacks are loaned out to others • Double action 3 ton (6,000 lb) hydraulic cylinder • Jack point centering cap to assure the aircraft stays on the jack • 6" riser provided to accommodate higher jack points. Effective range 26"- 43" & 32" - 49" • Locking safety collar secures the load • Rugged heavy gauge steel construction • Three leg design clears gear doors • Convenient handle storage. Effective Range: 26"-43" & 32" - 49" Ram Capacity: 6000lbs .....P/N 12-01725 ..... ---

WHEEL KIT FOR HYDRAULIC AIRCRAFT JACKS

Add Wheels to our Model #324, #326 or #332 The base that comes standard with all of our aircraft jack models is pre-drilled to easily allow for the addition of a Wheel Kit. **This Kit Includes:** 1 Left Bracket, 1 Right Bracket, 2 Wheels, Hardware Packet, Installation Instructions

P/N 12-02032 ..... ---

ALPHA AVIATION PORTABLE TAILWEIGHT POST 535

The unique design allows the secure anchoring of compression or torsion loads without the need of numerous sand bags and anchor chains. A safer and much more professional approach to securing the tail of an aircraft undergoing maintenance. Shipped knock down, the portable tail weight/tail post is easily assembled and weighted using solid concrete blocks obtained locally.

P/N 12-05486 ..... ---

EIGHT TON HYDRAULIC AIRCRAFT JACKS

MODEL #838W 8 TON UNIVERSAL JACK

26"-43", 32"-49", 38"-55"

Model #838W provides all the strength and versatility needed to accommodate larger aircraft. This unique design allows the Model #838W to easily convert from a 26" low wing jack to a 32" or 38" jack, avoiding the high cost of having to purchase model specific jacks. Now with "Tilt & Go" wheels and convenient handle storage for greater value • Double Action 8 Ton (16,000lb) Hydraulic Cylinder • Highly Versatille- Shipped With Adapterd For 26" 32" & 38"Heights • Jack Point Centering Cap To Assure The Aircraft Stays On The Jack • Locking Safety Collar Secures The Load • Stabrugged Heavy Gauge Steel Construction • Three Leg Design Clears Gear Doors • "Tilt & Go Wheels For Greater Mobility • Convenient Handle Storage Height Range 26"-43", 32"-49" & 38"-55"

Ram Capacity: 16,000 lbs .....P/N 12-01726 ..... ---

The Model 838HLW combines the strength and versatility of our Model 838W jack with the ability to provide a full 6" of additional ram travel. Ram travel that translates into additional ground clearance, working room and reduced set up time .....P/N 12-03328 ..... ---

MODEL #868W 8 TON UNIVERSAL JACK

The Model #868W combines all the strength and versatility of Model #838W with the necessary fittings to accommodate High Wing Cessna Aircraft such as 172RG, 177RG, 210 and 337. Shipped with adapters, our unique design allows the Model #868W to easily convert from a 26" low wing jack through the 32" and 38" levels to a 68" high wing jack, avoiding the high cost of having to purchase model specific jacks • Double Action 8 Ton(16,000 Lbs.) Hydraulic Cylinder • Highly Versatile- Shipped With Adapters For 26", 32", 38", & 68" Heights • Double Braced At The 68" Height For Stability • Jack Point Centering Cap To Assure The Aircraft Stays On The Jack • Locking Safety Collar Secures The Load • Rugged Heavy Gauge Steel Construction • Stable Three Leg Design Clears Gear Doors • Tilt & Go Wheels For Greater Mobility • Convenient Handle Storage

Height Range: 26"-43", 32"-49", 38"-55", 68-87"

Ram Capacity: 16,000 lbs

P/N 12-01727 ..... ---

*****NOT RECOMMENDED FOR***** Beech Model 99, Beech 1900, Citation Series, Cheyenne I/II/III/IV, Conquest, King Air, Navajo, Pilatus, Queenaire, T28.....P/N 12-03287 ..... ---

ALPHA AVIATION JACK SEAL KITS

3 Ton Jack Seal Kit for Alpha Aviation Aircraft Jack Models #324W (324) / #326W (326) / #332W (332) with 1-1/4" diameter ram only.

P/N 05-22907 ..... ---

8 Ton Jack Seal Kit for Alpha Aviation Aircraft Jack Models #838W, 868W, 838HLW or 868HLW with 1-1/4" diameter ram only.

P/N 05-22908 ..... ---

TAILWEIGHT EXTENSION FOR TAILWEIGHT POST

Adds on an additional 12 inches to the Tailweight Post model 375. For higher wing aircraft .....P/N 12-02033 ..... ---

ALPHA AVIATION TAILWEIGHT EXTENSION - 24 INCH

Alpha Aviation Tailweight Extension 24 Inch for Jacks.

P/N 05-22910 ..... ---

TO

HOBBYAIR RESPIRATOR

The Hobbyair Pro 1 is a fresh air breathing system specifically designed for the amateur painter which allows only fresh air to reach the user's lungs. It features a comfortable, lightweight facemask with beltline hook, simple snap together fittings, and is very affordable. Includes the pump unit with two stage, single speed, air bypass type motor, mask, belt and 40 foot delivery hose, fittings, filter, cord and case. The Buddy System Hobbyair is designed for two people and includes two 40 ft. delivery hoses. 1 yr warranty. Excellent for use in homebuilt aircraft construction and painting.

Hobbyair 1 (1/2 mask) 110V .....P/N 12-15850 ..... ---
Hobbyair 1 (1/2 mask) 220V .....P/N 12-15860 ..... ---
Buddy System Hobbyair (110V).....P/N 12-15870 ..... ---
Hobbyair I (Full mask) 110V.....P/N 12-15851 ..... ---
Hobbyair I (Full Mask) 220V.....P/N 12-03520 ..... ---
Hobbyair II .....P/N 09-00633 ..... ---
Hobbyair Buddy System
(2 full face Masks 110V).....P/N 12-05094 ..... ---
Hobbyair Cartridge Filter .....P/N 09-01015 ..... ---

HOBBYAIRE BUDDY SYSTEM AIR RESPIRATOR

Hobbyair Buddy System comes standard with an air pump, 2-40' hoses and a half facemask (HF01)for one person. Locate the intake air pump in a fresh air location and breathe HEPA filtered clean fresh air in most contaminated breathing environments .....P/N 12-02365 ..... ---

Full Facemask Lens Protectors - Sold in package containing 25 lens protectors. Apply one at a time over full facemask lens. Clear covers protect your lens from overspray and lengthen the life of your face-

3M™ PARTICULATE RESPIRATORS

09-01496 **09-01497**

Helps provide worker protection against certain non-oil based particles. Comfortable, easy to use, and promotes greater worker acceptance increasing wear time. Features 3M's patented filter media, nose foam, and adjustable noseclip that helps provide a secure seal and helps reduce eyewear fogging. Workplace applications: woodworking, grinding, sanding, sweeping, bagging, other dusty operations.

Description	Part No.	Price
8210 Standard dust mask	09-01496	---
Vented dusk mask	09-01497	---

3M HALF FACE DISPOSABLE RESPIRATOR ASSEMBLY

The 3M™ 5000 Series Half Facepiece Disposable Respirator Assembly with Organic Vapor and P95 Particulate Filters, Respiratory Protection (51P71, 52P71, 53P71) helps provide protection against certain airborne contaminants. This respirator is NIOSH approved for respiratory protection against certain organic vapors and particulates up to ten times the permissible exposure limit (PEL). Half Facepiece respirator may be used in a variety of workplace applications, including spray painting, pesticides, agriculture, construction, and transportation. This disposable respirator assembly offers greater convenience by reducing the need for long-term maintenance. This half facepiece respirator is an ideal choice for intermittent use. .....P/N 09-05716 ..... ---

UVEX BIONIC FACE SHIELD

- Honeywell UvexTM BionicTM Face Shields
- Shell offers built-in chin protection and extended top-of-head coverage
- Highly adjustable headgear tilts visor nearer or farther from face depending on preference and application
- Comfortable cell foam on back of headgear
- Breathable, removable, washable headband
- Comfortably worn with most goggles and respirators

Testing and Approvals:
Passes ANSI Z87+ and CSA Z94.3 Standards
P/N 12-05261 ..... ---

CITATION 4 HVLP SPRAYER/RESPIRATOR

Allows its' user to achieve 'show plane' quality results to a level never before possible with a turbine powered system. The CITATION '4' offers a much higher PSI range without sacrificing the benefits of HVLP such as lower overspray, the elimination of moisture and high transfer efficiency. This is all accomplished with a more powerful, yet quieter and cooler running turbine blower. Like the standard CITATION, this new system, of course, offers the additional benefit of a built-in supplied-air respirator to assure breathing protection for its' user.....P/N 12-00973 ..... ---

CITATION 3 STAGE HVLP PAINT SPRAYER AND RESPIRATOR WITH BOTTOM FEED GUN

Standard One man System Includes: Citation Dual HVLP Pump, Two 40' hoses, one sprayer & one respirator, Half facemask & belt, HVLP Apollo Paint Spray Gun with One Cup - Bottom Feed, Complete System and Spray Gun Manual, Introductory 'How to" Spray Manual, 3 **Stage Sprayer Specs:** 110-120V VAC, 50/60HZ, Amps: 11.5, PSI: 5.5 **One Man Respirator:** 110-120V VAC, 50/60 HZ, Amps: 1.6, Cfm: 7 @ Facemask **Two Man Respirator:** 110-120V VAC, 50/60HZ, Amps: 7, Cfm: 7.5 @ Facemask.....P/N 12-02372 ..... ---

CITATION 3 DUAL HVLP PAINT SPRAYER AND RESPIRATOR WITH GRAVITY GUN

Standard One man System Includes: Citation Dual HVLP Pump, Two 40' hoses, one sprayer & one respirator, Half facemask & belt, Gravity HVLP Apollo Paint Spray Gun with One Cup - Gravity Feed, Complete System and Spray Gun Manual, Introductory 'How to" Spray Manual **3 Stage Sprayer Specs:** 110-120V VAC, 50/60HZ, Amps: 11.5, PSI: 5.5 **One Man Respirator:** 110-120V VAC, 50/60 HZ, Amps: 1.6, Cfm: 7 @ Facemask **Two Man Respirator:** 110-120V VAC, 50/60HZ, Amps: 7, Cfm: 7.5 @ Facemask.....P/N 12-02373 ..... ---

CITATION 4 STAGE HVLP PAINT SPRAYER AND RESPIRATOR WITH BOTTOM FEED GUN

Standard One man System Includes: Citation Dual HVLP Pump, Two 40' hoses, one sprayer & one respirator, Half facemask & belt, Bottom Feed HVLP Paint Spray , Gun with Quart Cup, Complete System and Spray Gun Manual, Introductory 'How to" Spray Manual **3 Stage Sprayer Specs:** 110-120V VAC, 50/60HZ, Amps: 11.5, PSI: 5.5 **One Man Respirator:** 110-120V VAC, 50/60 HZ, Amps: 1.6, Cfm: 7 @ Facemask **Two Man Respirator:** 110-120V VAC, 50/60HZ, Amps: 7, Cfm: 7.5 @ Facemask.....P/N 12-00973 ..... ---

CITATION 4 STAGE SPRAYER AND RESPIRATOR WITH GRAVITY GUN

The Citation 4 combined HVLP paint sprayer and respirator system includes a paint sprayer and second separate air pump for cool fresh breathing air. Includes four stage turbine power and spray gun of your choice. Great for most finishes.
P/N 12-02374 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

3M™ SAFETY GOGGLE BX™

• BX protective eyewear are fully adjustable with three lens angles and adjustable nose bridge and temple length. Silver/Black frames.
Features: • Soft adjustable nose bridge
• Three lens angles for cozy fit • Integrated sideshields • Protect your eyes from impact and block 99.9% UV rays • Polycarbonate anti-fog lens • Meets the requirements of CSA Z94.3-2007 and the High Impact Requirements of ANSI Z87.1-2003 .....P/N 09-02154 ..... ---

VIRTUA PROTECTIVE EYEWEAR AP

The Virtua protective eyewear line merges outstanding unisex style, protection and affordability, all while offering wearers an open, unobstructed viewing range and impact-resistant, 3-piece polycarbonate construction. Designed for indoor or outdoor use.

- Clear, anti-fog lens
- Clear frame
- Weighs less than one ounce
- Polycarbonate lens absorbs 99.9% UV

Clear Anti-Fog Lens.....P/N 09-03053 ..... ---
Gray Hard Coat Lens.....P/N 09-03055 ..... ---
Light Blue Hard Coat Lens .....P/N 09-03056 ..... ---
Clear Hard Coat Lens.....P/N 09-03059 ..... ---

OPTICOR SAFETY GLASSES

Meets ANSI Z87.1+ (High Impact) and CSA Z94.3 Standards. Sizes : One Size Fits Most Frameless. Black Nylon Temples. Polycarbonate Lens. CASC (Cordova Anti-Scratch Coating). Thermo-Plastic Temples and Nose Piece.
Clear .....P/N 14-02170 ..... ---

SAFETY FACE SHIELD REPLACEMENT

Provides protection for the face and neck against chemical splash and flying particles. Replace. Window, Clear
P/N 90030 ..... ---

3M™ SECUREFIT™ PROTECTIVE CLEAR EYEWEAR

These glasses come with important safety features for overall eye protection, including impact resistant polycarbonate lenses that absorb 99.9% UVA and UVB rays up to 380 nm. The glasses also meet the requirements of CSA Z94.3-2007 and ANSI Z87.1-2010. This protective eyewear weighs less than one ounce for lightweight comfort.

Color	Part No.	Price
Clear	09-04759	---
Gray	09-04760	---
Amber	09-04761	---
AntiScratch Gray	09-04763	---
Anti-Fog Clear	09-04764	---
Anti-Fog Gray	09-04765	---

SCARAB SAND BLAST HOODS

Features durable construction and large size to cover the head, face, neck and shoulders to protect against the impact of high velocity abrasives. Made with super-heavy 10.38 oz. army duck canvas treated with high water repellant and mildew resistance. Complete with an ERB Safety built-in construction type hard hat that meets ANSI Z89.1-2003 (Type 1, Class E, G & C) and complies with OSHA regulations for industrial head protection.
Scarab Sand Blast Hood.....P/N 12-01665 ..... ---
Scarab Lite Sand Blast Hood.....P/N 12-01666 ..... ---

ACCESSORIES

Lens for Scarab Blast Hood .....P/N 12-01667 ..... ---
Screen for Scarab Blast Hood.....P/N 12-01668 ..... ---

3M ™ PELTOR™ PERSONAL HEARING PROTECTORS

OPTIME 105

Over-the-head dual cup. NRR 30. Can be used for noise levels up to 105 dB. **Color:** Black and Red
P/N 12-00699 ..... ---

OPTIME 105 HI-VIZ

NRR 30. Can be used for noise levels up to 105 dB. Bright Hi-Viz Yellow great for recognition of workers.
P/N 12-02568 ..... ---

OPTIME 101 - Over-the-head Hp. NRR 27. Can be used for noise levels up to 101 dB. **Color:** Green.
P/N 12-16110 ..... ---

OPTIME 98 - Over-the-head Hp. NRR 25. Can be used for noise levels up to 98 dB. **Color:** Yellow and Black.
P/N 12-02569 ..... ---

OPTIME 95 - Folding hearing protector. NRR 21. Can be used for noise levels up to 95 dB. Folding – Slim design.
Color: Beige and Black.....P/N 12-02570 ..... ---

3M™ E-A-R™ EARPLUGS

E-A-R CLASSIC

Most popular earplug in the world • NRR 29dB • The E-A-R® Yellow color is your assurance of proven protection • Moisture resistant dermatologically safe foam is not irritating • Slow recovery PVC foam provides comfort with low pressure .....P/N 9134 ..... ---
with Cord .....P/N 09-02148 ..... ---

CLASSIC™ PLUS

Classic Plus are longer than Classic earplugs to fit deeper into the ear canal and provide a higher level of protection. • Slow-recovery foam helps ensure comfort and minimize pressure • Bright yellow color provides a quick visual compliance check • Dermatologically safe foam is non-irritating, non flammable, and moisture-resistant
P/N 09-02149 ..... ---
with Cord .....P/N 09-02150 ..... ---

E-A-R SOFT™ YELLOW NEONS™

NRR 33dB-Highest NRR available • THE WORLD'S SOFTEST EARPLUGS • Self-adjusting foam provides low pressure with excellent attenuation • Exciting designs and brilliant colors • Dermatologically safe foam is non-irritating to the skin
P/N 09-02151 ..... ---
with Cord .....P/N 09-02152 ..... ---

3M™ PISTONZ™ EARPLUGS

No need to roll down. Biaxially-stiff stem for easy insertion, yet designed to flex sideways if impacted. Tips look like metal, yet provides ultra-soft feel for all day wear.
without Cord P/N 12-02571 ..... ---
with Cord .....P/N 12-02572 ..... ---

E-A-R EARBUDS 2600 HEADPHONES - • NRR 26dB • Noise Limited to 82dB • Convenient, Easy-Access Volume Control • Mp3 Compatible • Blocks out External Noise • Hear Your music while you work • Ultra Comfortable Design • Better fit for longer wear.....P/N 09-02153 ..... ---

TO

3M™ HARD HAT

Protective White hard hat with comfortable 4-point ratchet suspension and standard brow pad. Meets requirements of ANSI/ISEA Z89.1-2014 Type 1, Class G and E. 4-point ratchet suspension allows wearer to customize height and fit. Suspension sits lower on head to reduce pressure and increase security. Short brim enhances better upward visibility. Slots allow for attachment of safety accessories. Replaceable brow pad enhances comfort and extends life. Meets requirements of ANSI/ISEA Z89.1-2014 Type 1, Class G and E. ANSI/ISEA compliant when worn in the forward and reverse donning positions .....P/N 09-04766 ..... ---

KEVLAR™ HEAT SLEEVE

14" length of 100% Kevlar. Improved comfort and protection against cuts and abrasions. Heat resistant. May be worn with gloves. Washable and reversible.

P/N 01-01548 ..... ---

3M™ DISPOSABLE PROTECTIVE COVERALL 4530

The 3M™ Protective Coverall 4530 is disposable safety work wear made of lightweight, breathable polypropylene with flame resistance. Designed to be worn over primary FR garments, it helps provide protection against dusts and light liquid splashes. **Features**: Breathable material to help reduce heat buildup and promote comfortable wear. Knit cuffs with elasticized waist and ankles for increased comfort and freedom of movement. Three panel hood design for compatibility with complementary PPE. Two-way zipper with sealable storm flap. Reinforced gusset for increased durability. Flame resistant treatment offering secondary protection against heat and flames Anti-static coating on both sides.

L.....P/N 12-02663 ..... ---
XL..... P/N 12-02664..... ---
2XL .....P/N 12-02665 ..... ---
3XL..... P/N 12-02666..... ---
4XL .....P/N 12-02667 ..... ---

3M™ DISPOSABLE PROTECTIVE COVERALL 4520

The 3M disposable protective coverall 4520 key features include: Breathable material (SMMMS) to help reduce heat stress and comfortable wear. Elasticated waist, ankles, and wrists for convenience and freedom of movement. Three panel hood design for compatibility with complimentary PPE. Two-way zipper with storm flap for convenience and to help provide additional protection. Anti-static coating on both sides. Protect against light liquid splashes and hazardous dusts.

4XL .....P/N 12-02694 ..... ---

3M™ DISPOSABLE PROTECTIVE COVERALL 4540

The 3M™ Protective Coverall 4540 is disposable safety work wear made of a high quality laminated material with a breathable back panel for improved air circulation.Protection against light liquid splashes and hazardous dusts. **Features**: Constructed of a low-linting, non-woven, laminated microporous material with anti-static coating on both sides, Knit cuffs with elasticized waist and ankles for increased comfort and freedom of movement Three panel hood design for compatibility with complementary PPE Two-way zipper with sealable storm flap Reinforced gusset adds extra durability Breathable back panel to help improve air ventilation and reduce heat buildup.

3XL .....P/N 12-02661 ..... ---

3M™ PARTICULATE RESPIRATOR

The lightweight, disposable N95 particulate dust respirator is designed to help provide quality, reliable worker respiratory protection. 3M uses a variety of innovative features to help you meet your respiratory protection and comfort needs. The respirator incorporates 3M's proprietary technology with advanced electrostatically charged microfiber filter media.

P/N 09-04753 ..... ---

3M™ VFLEX™ PARTICULATE RESPIRATOR

This disposable N95 particulate respirator is designed to help provide quality, reliable worker respiratory protection for certain non-oil based particles. It has a unique folded design with 3M proprietary filter media and V-shaped pleats that expand to help make breathing easier. In addition, the V-shaped pleats flex with mouth movement for easier talking.The respirator features uniquely designed tabs for positioning the respirator on the face and embossed front panel to help the respirator retain its shape.....P/N 09-04754 ..... ---

3M HALF FACEPIECE REUSABLE RESPIRATOR

The 3M™ Half Facepiece Reusable Respirator 6000 Series helps provide protection against particulates and a wide variety of gases and vapors when used with approved cartridges and filters. When properly fitted and used with approved 3M™ cartridges and filters, this respirator helps provide protection at concentrations up to 10 times the Permissible Exposure Limit (PEL). The swept back design of the cartridges helps improve balance and visibility. Remarkably comfortable, soft, lightweight facepiece has eEasy-to-adjust head straps allow for a customized fit to the user. Replaceable cartridges help reduce waste and costs over time.

P/N 09-05764 ..... ---

PARTICULATE RESPIRATOR

95% filter efficiency level effective against particulate aerosols free of oil; time use restrictions may apply. Maintenance-free construction. Adjust-able nose bridge with foam strip to reduce the potential for eyewear to fog. Latex-free stapled fixed head strap. 20 masks per box.

Box of 2 .....P/N 01-01558 ..... ---
Box of 20 .....P/N 01-01556 ..... ---

VALVED PARTICULATE RESPIRATOR

95% filter efficiency level effective against particulate aerosols free of oil; time use restrictions may apply. Maintenance-free construction. Exhalation valve for easy breathing. Adjustable nose bridge with foam strip to reduce the potential for eyewear to fog. Latex-free stapled fixed head strap. 10 masks per box.

Box of 1 .....P/N 01-01559 ..... ---
Box of 10 .....P/N 01-01557 ..... ---

3M RUGGED COMFORT HALF REUSABLE RESPIRATOR

The 3M™ Rugged Comfort 6500 Series Half Facepiece Reusable Respirator helps provide respiratory protection in harsh, dirty environments against airborne contaminants when used with approved 3M™ cartridges and filters. When properly fitted and used with approved 3M™ cartridges and filters, this respirator helps provide respiratory protection at concentrations up to 10 times the Permissible Exposure Limit (PEL).

Color	Part No.	Price
Small	09-04755	---
Medium	09-04756	---
Large	09-04757	---

3M™ E-A-R™ PUSH-INS™ CORDED

3M™ E-A-R™ Push-Ins™ Corded Earplugs feature soft and flexible E-A-Rform™ Foam that inserts quickly and easily into the ears for comfortable noise reduction. The push-to-fit design with a flexible stem helps keep the soft foam tip clean, even when hands are dirty, since there is no need to roll the foam before fitting. Cord allows earplugs to be stored conveniently when earplugs are worn intermittently. Earplugs are packaged in a poly bag to keep them clean prior to use. Recommended applications include assembly and mechanical, chipping, chiseling, cleaning, drilling, furnace operations, grinding, heavy equipment operations, machining, metal repair, painting, pouring/casting, power fastening, riveting, sanding, sawing and welding .....P/N 09-04758 ..... ---

TO

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AEROX HIGH-DURATION AVIATION OXYGEN SYSTEMS

Aerox 2D system | Aerox 4M system

Add to your flying comfort by using oxygen at altitudes as low as 5000 ft. Aerox Oxygen Systems include lightweight aluminum cylinders, regulators, all hardware, flow meter, and nasal cannulas (masks available as option). Oxysaver oxygen saving cannulas & Aerox Flow Control Regulators increase the duration of oxygen supply about 4 times, and prevent nasal irritation and dryness. Complete brochure available on request.

500 SERIES REGULATOR – AN AIRCRAFT SPRUCE EXCLUSIVE!

- Low profile
- 1, 2, & 4 place
- Standard Aircraft filler for easy filling
- Convenient top mounted ON/OFF valve
- Equipped with Aerox standard plug sockets
- Over pressure safety valve
- Built in cylinder pressure gauge

COMPLETE AEROX SYSTEMS (ADJUSTABLE FLOW)

Model	No. of Users	Cylinder Size	Part No.	Price
1A	1	6 Cu Ft.	13-18895	---
1C	1	9 Cu. Ft.	13-18896	---
1D	1	13 Cu Ft.	13-18897	---
2A	2	6 Cu. Ft.	13-18898	---
2C	2	9 Cu Ft.	13-18899	---
2D	2	13 Cu. Ft.	13-18900	---
2E	2	22 Cu Ft.	13-18901	---
2M	2	22 Cu. Ft.	13-18902	---
4C	4	9 Cu Ft.	13-18903	---
4D	4	13 Cu. Ft.	13-18904	---
4E	4	22 Cu Ft.	13-18950	---
4M	4	22 Cu. Ft.	13-18906	---
6M	6	22 Cu Ft.	13-18915	---
6F	6	33 Cu. Ft.	13-18905	---

AEROX ACCESSORIES

Description	Part No.	Price
CC Oxysaver Cannula	13-18910	---
CR-A Regular Cannula	13-18920	---
Metal Clamp Bracket for 13 or 22Cft cyl	13-18970	---
CR-C Reg. Cannula (Child)	13-18930	---
MSK-A Rebreather Mask	13-18940	---
Aerox Oxysaver Pendant	13-03271	---
MSK-A Rebreather Mask Child	13-08023	---
1 Place Regulator With Gauge For 540 Valve	13-07737	---
2 Place Regulator With Gauge For 540 Valve	13-07735	---
4 Place Regulator With Gauge For 540 Valve	13-07736	---
Glo-tec Pressure Gauge	13-05250	---
Flowmeter with needle valve	13-04683	---

RK-SC
RK-SK
PB-2 Old Style
PB-1 New Style
MS

FITTING IDENTIFICATION CHART (Not Sold Separately)

AEROX RETROFIT KITS FOR BUILT-IN SYSTEMS OR OTHER PORTABLES

1.) Oxysaver® Cannula—this comfortable device may be used in place of your mask up to 18,000 ft. MSL. It has a conserving feature which can extend your oxygen supply by up to four times. 2.) Aerox Flowmeter/indicator—this combination device conveniently reads both mask and cannula flow rates in MSL altitude. 3.) Aerox Adjustable Flow Restrictor—a thumb screw operated needle restrictor valve allows you to precisely control flow. Shown are most of the connectors for general aviation. If you want us to supply the connector, be sure to indicate which is your type.

Model	Retrofit Kits	Part No.	Price
RK-SC	Retrofit Kit plus Scott type fitting SC	13-18992	---
RK-PB-1	Retrofit Kit plus Puritan-Bennett type fitting	13-18994	---
RK-PB-2	Retrofit Kit plus Puritan-Bennett type fitting	13-18995	---
RK-SK	Retrofit Kit plus Sky-Ox fitting (new style) SK	13-18996	---
RKCPC	Kit with CPC fitting for Cirrus	13-05152	---
RK-PB1	Retrofit Kit with RK-PB1 Fitting FMNV (Aerox Flow meter Needle Valve) Mask to 25,000 ft	13-05582	---
---	Retrofit Kit for Aerox 350/400 Regulators	13-00787	---
RK-SC	Retrofit Kit with Scott Type Fitting FMNV (Aerox Flow meter Needle Valve) Mask to 25,000 ft	13-19711	---

AEROX PRO-O2 EMERGENCY HANDHELD OXYGEN SYSTEMS

Provides oxygen until the aircraft can reach a lower altitude. And because Pro-O2 is refillable, there is no need to purchase replacement O2 cartridges. During short flights at altitudes between 12,500ft. MSL and 14,000ft. MSL where maneuvering over mountains or turbulent weather is necessary, the Pro-O2 emergency handheld oxygen system provides oxygen to extend these brief legs. Included with the refillable Pro-O2 is a regulator with gauge, mask and a refillable cylinder.

Pro-O2-2 (2 Cu. Ft./1 mask).....P/N 13-02735 ..... ---
Pro-O2-4 (2 Cu. Ft./2 masks).....P/N 13-02736 ..... ---
Pr02-Plus Portable Oxygen System.....P/N 13-23658 ..... ---

AEROX 4110-712 SERIES OXYGEN MASK WITH MICROPHONE

The 4110-712 Series continuous flow oxygen mask with microphone is intended for crew and passengers in the general aviation industry at a maximum altitude of 25,000 feet. Optional equipment includes industry standard fittings for connection to portable and built-in oxygen systems. FAA 8130 Provided.

Description	Aerox No.	Part No.	Price
Small Without Microphone	4110-711-1	13-06652	---
Medium Without Microphone	4110-711-2	13-06653	---
Large Without Microphone	4110-711-3	13-06654	---
Small	4110-712-1	13-06655	---
Medium	4110-712-2	13-06656	---
Large	4110-712-3	13-06657	---

AEROX SMOKE GOGGLES

Aerox has introduced Smoke Goggles with face forming elastomer seals to keep smoke out. Aerox Smoke Goggles are the choice of the U.S. Special Forces. The case features reflective tape to make goggles easy to locate as well as a velcro strip on the back for mounting.

Goggles .....P/N 13-06173 ..... ---
Soft Case .....P/N 13-06174 ..... ---

BR-M AEROX BRACKET

Bracket Assembly, SS, with Lock, or Cyl Diameter (2 needed per system).....P/N 13-04033 ..... ---

AEROX BOOMULA - HEADSET MOUNTED OXYGEN CONSERVING CANNULA

The Aerox BOOMULA is an integrated conserving-cannula, replacing the ubiquitous "mustache" cannula with a headset-mounted cannula. The conserving pendant feature is attached to the Aerox BOOMULA, moving it out of the way of the user's face. The Aerox BOOMULA has a unique hard-mounting feature for the Bose® A20 headset – with an included mount that screws into the headset, replacing the cover opposite the microphone mount, for easy access and removal. A universal, stick-on mount is included also .... P/N 13-24371 ..... ---

AEROX FBO-1 FILLING STATION

Whether making money or saving it, the Aerox FBO-1 Cascade Filling System makes it easy to fill all types of aviation systems, from portables to jets. The FBO-1 comes complete with 2 CGA 540 cylinder connectors, 6' high-pressure (3000 psi) braided stainless filler line, contents gauge, flow restrictor and adapters to fit Puritan-Bennett, Scott, and CGA 540 filler ports.....P/N 13-04534 ..... ---

AEROX CGA-540 SINGLE CYLINDER FILLING STATION

Transfills between cylinders quickly and easily. 6' braided stainless line, gauge, restrictor, and CGA 540 filler.....P/N 13-04535 ..... ---

OPTIONAL BUILT-IN ADAPTERS

Image	Description	Part No.	Price
	Aerox Scott Built-in Adapter Option (Piper, Beech, Mooney)	13-04536	---
	Aerox Puritan-Bennett Built-in Adapter Option (all other makes)	13-04537	---
Portable System Filling adaptors for standard CGA 540 supply cylinders:			
	Aerox Scott Portable Filling Adaptor	13-04538	---
	Aerox Puritan-Bennett Portable Adapter Option	13-04540	---

PS

AITHRE TURBO PORTABLE OXYGEN MAKER

The Aithre Turbo Oxygen Maker is the World's first oxygen generator optimized specifically for light aircraft and general aviation. Say goodbye to awkward oxygen cylinders, complex regulators, and expensive transfilling equipment, and the inconvenience of oxygen filling. Free yourself from the limits that industrial oxygen suppliers and medical-style tanks have imposed on your flights, and experience freedom to climb and travel - safely. With enough oxygen supply to circumnavigate the World many times, the Aithre Turbo Oxygen Maker will unlock your aircraft potential and support your mission, no matter where it takes you.

. P/N 11-20336 ..... ---

AITHRE AVI24EX 2-PLACE SMART O2 VALVE WITH 925L BOTTLE AND ALTUS MESO

The Altus AVI24EX and 925L Aithre carbon fiber bottle is the first experimental installed smart oxygen system that is integrated with your avionics, your iOS device, and the Aithre suite of health technology products to deliver smart pulsed oxygen. You get a lighter bottle with a pulsed delivery system that factors pressure altitude, respiration rate, and custom user parameters to extend oxygen duration by more than 4X. This lightweight system offers incredible endurance, which time can be extended more using the Aithre Illyrian oximeter.. P/N 11-19726 ..... ---

AITHRE AVI64EX 4-PLACE SMART O2 VALVE WITH 925L BOTTLE AND ALTUS MESO AAVI64EX02P9

The Altus AVI64EX and 925L Aithre carbon fiber bottle is the first experimental installed smart oxygen system that is integrated with your avionics, your iOS device, and the Aithre suite of health technology products to deliver smart pulsed oxygen. You get a lighter bottle with a pulsed delivery system that factors pressure altitude, respiration rate, and custom user parameters to extend oxygen duration by more than 4X. This lightweight system offers incredible duration. At 14 lbs. total weight and 2000 PSI, we are demonstrating over 40 hours of endurance at 14k MSL with the 100% standard setting, which time can be extended more using the Aithre Illyrian oximeter.. P/N 11-19058 ..... ---

AITHRE ILLYRIAN II SMART OXIMETER

This new revolutionary product delivers on Aithre's commitment to innovation and safety in flight with another first ever - a headset haptic safety wearable. Featuring an improved silicone pad and a built-in pressure altimeter, oximeter, heart rate and variability monitor, movement detector, and optional connectivity to the Aithre Connect iOS app for cabin temperature and carbon monoxide sensing, the Illyrian II is packed with useful technology.

This tiny wearable will transform your existing headset into a complete hypoxia and health safety monitoring solution with optional and controllable haptic feedback for a variety of use cases, including: depressurization, heart rate surges, low blood oxygen, absence of head movement, high cabin temperature, and elevated carbon monoxide, and the embedded potential for much more.

The Illyrian II converts any active noise cancelling headset into a safety wearable using simple 3M adhesive that will not leave a residue and is removable. The tiny unit is usable in a variety of configurations for headband or under the earcup oximeter placements. Moreover, the Illyrian II is constructed from lightweight aluminum - anodized and laser etched - which will elevate the appearance of your headset and visually demonstrate your commitment to safety, without adding measurable weight or size.....P/N 11-20176 ..... ---

AITHRE OXYGEN BOTTLE WITH FIXED FLOW REGULATOR 47L

The Aithre personal oxygen bottle is constructed from lightweight composite carbon fiber with an aluminum lining and is designed for low altitude and short duration mid-altitude use. Offering a 2000 PSI working pressure, simple on-off gauge, and preset 0.5 LPM flow rate, this bottle is ideal for pilots in private GA aircraft for refreshing before an approach and supporting brief climbs above terrain or weather at altitudes of 5k MSL - 15k MSL. Small enough and light enough to fit in your flight bag, the Aithre oxygen bottle is 100% refillable and can store 47L of compressed oxygen at 2000 PSI. **BOTTLE SHIPPED EMPTY** • No oxygen is contained in the bottle when shipped • Filling port is 3/8"-24 UNF (FAM-PB3 adaptor from Aerox) • Fill yourself using Aerox transfilling equipment (FA540-72-G hose/gauge from Aerox).

P/N 13-23419 ..... ---

AITHRE UNI-FLO2 CANNULA

The Uni-flo2 cannula is an innovative single prong cannula which provides supplemental oxygen delivery through a single nostril. The cannula contains no natural latex rubber, and has a very soft nasal tip. This cannula can be used on either nostril, and contains a memory system which allows it to be contoured to your facial structure.

7 feet .....P/N 11-19063 ..... ---

AITHRE DUAL CANNULA

The Aithre cannula is 100% pure silicone and very soft. This cannula will not stiffen, crack, or kink with low temperatures and is extremely comfortable to wear, making it ideal for high altitude flights or storage in cold environments.

7 feet .....P/N 11-19064 ..... ---

AITHRE ILLYRIAN SMART OXIMETER

The Illyrian smart oximeter is usable in aviation, sleep, and mountaineering to provide constant, always on pulse oximeter readings to an iOS device and Apple Watch. SPO2 readings are obtained using a thin sensor pad worn near the ear or on the forehead and then broadcast wirelessly using BLE (Bluetooth Low Energy) to your Apple phone, tablet, watch using the free Aithre Connect app and your experimental avionics when using the Ilyrian oximeters and BPM data throughout the flight.

P/N 11-17595 ..... ---

AITHRE BOOM CANNULA AND ADAPTOR

The Aithre boom cannula marries functionality with elegance to provide the most convenient, comfortable, and stylish cannula ever devised. A 100% silicone cannula combines with an articulating boom and an anodized and laser etched aluminum pivot adapter to provide flexible access to oxygen whenever required. Simply lower the boom into position when oxygen is required and raise the boom when oxygen is no longer needed. Further, the Aithre boom cannula duals as a mount for the portable Illyrian oximeter, helping support flight safety with continuous heart rate and blood oxygen readings throughout all phases of flight.

P/N 13-24376 ..... ---

PS

SEE OUR WEBSITE FOR COMPLETE LINE OF AITHRE PRODUCTS!

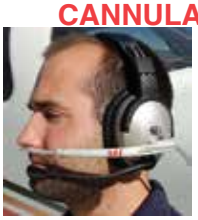
Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

MOUNTAIN HIGH OXYMIZER CANNULA

The Oxymizer 'M' type (mustache-style) oxygen-conserving cannula is the most popular version. The Oxymizer is standard issue with our XCR and XCP systems and may work with almost any adjustable constant flow regulator.

P/N 13-11592 ..... ---

MOUNTAIN HIGH E-Z BREATHE II BOOM CANNULA EDS FOR PULSE DEMAND



Note: This is the cannula only. Requires flowmeter and adapter (sold separately) for connection to oxygen system.

Mountain High has redesigned their Boom Cannula system to make it even better. The redesigned nylon boom arm affixes to your headset with a ball mount and adhesive pad. It can swivel about and slides in and out for best fit. The new improved arm incorporates an adjustable friction lock to eliminate slippage. The nasal tips and the entire feed-tube assembly are easily replaceable, as well as the aluminum mount ball. The arm can be easily removed from the headset when not in use. EDS stands for Electronic Delivery System.....P/N 13-13067 ..... ---

MOUNTAIN HIGH E-Z BREATHE II BOOM CANNULA FOR XCP - FLOWMETER

The E-Z Breathe Boom Cannula II™ kit for use with Mountain High XCP portable constant-flow systems. This model will also work with most all constant flow systems that use a Flow-Meter.

Mountain High has redesigned their Boom Cannula system to make it even better. The redesigned E-Z Breathe nylon boom arm affixes to your headset with a ball mount and adhesive pad. It can swivel about and slides in and out for best fit. The new improved arm incorporates an adjustable friction lock to eliminate slippage. The nasal tips and the entire feed-tube assembly are easily replaceable, as is the aluminum mount ball. The arm can be easily removed from the headset when not in use.

The E-Z Breathe Boom Cannula II™ boom cannula kit from Mountain High has all the items needed to install onto almost any headset in use today.

Note: This is a non oxygen conserving product. Headset not included.

P/N 13-23358 ..... ---

AEROX DILUTER DEMAND MASK

Comes standard with an electret microphone and an inflatable Quick Comfort head harness that provides maximum comfort. The mask features a carbon fiber construction, and soft silicon rubber. Connectors are available for most built in systems. This mask is easily mounted with the available carbon fiber stowage cup, aerox® is also able to manufacture a portable walk around system with the same outlet plug that is on your aircraft, so you can easily disconnect from the on-board system and plug directly into a portable system allowing mobility .....P/N 13-12359 ..... ---

AEROX SEAT BACK DELUXE CARRIER

Fitted case with quick release, all point webbing. Available for "A", "C", "D", "E", and "M" cylinders. Doubles as a carrier with built in rubber handle. Webbing can remain on the seat when the case is detached. Internal velcro strap holds cylinder securely. Accessory pocket on side holds webbing for easy storage. Available in black. Complete Part no. with: -A, -C, -D, -E, or -M.

P/N 13-18990..... ---

AITHRE TURBO OXYGEN MAKER

The Aithre Turbo Oxygen Maker is the World's first oxygen generator optimized specifically for light aircraft and general aviation. Say goodbye to awkward oxygen cylinders, complex regulators, and expensive transfilling equipment, and the inconvenience of oxygen filling. Free yourself from the limits that industrial oxygen suppliers and medical-style tanks have imposed on your flights, and experience freedom to climb and travel - safely. With enough oxygen supply to circumnavigate the World many times, the Aithre Turbo Oxygen Maker will unlock your aircraft potential and support your mission, no matter where it takes you.

P/N 11-20252 ..... ---

AITHRE ALTUS MESO PORTABLE OXYGEN TANK PRESSURE MONITOR - WITH IOS APP

The Altus Meso is the second generation Altus smart tank monitor from Aithre with all the same innovative functionality now packaged in a miniature form factor. Altus Meso wirelessly pairs to your iOS device and Apple Watch to display pressure, flow rate, and time remaining, including oxygen trend graphing and much more, now using only USB power (optional 5V hardwired experimental aircraft installed version available upon request). This small device makes your portable oxygen tank more usable and accessible without the expense and hassle of a traditional built-in system. (Black) .....P/N 11-18407 ..... ---

AITHRE SHIELD EDOT 5.0 CARBON MONOXIDE DETECTOR WITH IOS APP

The Aithre Shield 5.0 eDot CO Detector - FAA Part 23 Approved - Panel Led Indicator with iOS App. FAA approved for Certified Aircraft but also available for experimental Aircraft builders: The Aithre Shield eDot 5.0 is the first behind-the-panel device that puts carbon monoxide readings output to panel mounted LED light and to iOS device. Features a simple wiring installation, a small footprint, iOS app, WatchOS app, and 10 years without recalibration for the CO ppm.

Features:

• **FAA NORSEE**: Approved for certified Part 23 aircraft (non-pressurized). Must be installed in certified aircraft by an A&P. Experimental can be installed by an owner holding a repairman's certificate.

• **Power**: 5V, 12V, or 24V compatible with over current and reverse current built-in protection

• **Installation**: Simple power and ground wire connection with panel hole for LED indicator

• **Dimmer**: Built-in dimmer for nighttime operations that is controllable via the app.....P/N 11-18408 ..... ---

AITHRE HEALTHVIEW

The Healthview is the first dedicated avionics display for health information, including gauges for blood oxygen, heart rate, respiration rate, flow rate, cabin pressure, cabin temperature, carbon monoxide, oxygen tank pressure, and wing tip temperature/dewpoint spread - and the first dedicated avionics display that controls your oxygen dosage per station based on altitude, carbon monoxide, blood oxygen, and heart rate. **Features**: • 240 x 320 pixel TFT resistive touch LCD display • Rich and vibrant graphical gauges • Powered by three parallel low energy processors and BLE wireless communication module for an exciting low hear, low power, high functionality display ..P/N 11-19684 ..... ---

AITHRE SHIELD EX 3.0-S

Note: Experimental Aircraft Only

The Aithre Shield EX 3.0-S is the first behind-the-panel device that puts carbon monoxide readings, pilot SPO2 from your Aithre Illyrian, and portable oxygen bottle PSI from your Aithre Altus Meso directly on EFIS using RS-232 output, as opposed to the voltage outputs of the sibling Shield EX 3.0. The EX 3.0-S works out-of-the-box with the current version of Advanced Flight Systems Avionics firmware. Check with your avionics manufacturer to verify support of the Aithre RS-232 protocol, which is published on our website on the Instructions & Resources page. Otherwise, see the sibling Shield EX 3.0 with its standard voltage outputs that are compatible with Garmin, Dynon, and other avionics manufacturers. Features simple wiring installation, a small lightweight footprint, iOS integration, and 10 years without recalibration for the CO ppm.....P/N 11-19735 ..... ---

AITHRE AVI24C 2-PLACE SMART OXYGEN SYSTEM FOR CERTIFIED AIRCRAFT

The FAA has approved the Aithre AVI C smart pulse oxygen systems for installation in all Part 23 unpressurized aircraft for 1, 2, 4 and 6 places. Any make, any model, any year, including all unpressurized Beechcraft, Mooney, Cirrus, Cessna, Diamond, Pipers, and every other aircraft certified and flown under Part 23. The simple installation can be performed by any A&P as a minor alteration under NORSEE.

The basis for this unprecedented first-of-its-kind FAA approval for all Part 23 unpressurized aircraft makes and models was on the basis that Aithre's technology of unpressurized station plumbing lines, simple wiring & installation, low current requirements, and remote push-button activation enhances the safety of aviation by making oxygen more accessible during flight.

Landscape .....P/N 11-20251 ..... ---

Portrait .....P/N 11-20253 ..... ---

PS

OXYGEN SYSTEMS

MOUNTAIN HIGH XCP SYSTEMS

The MH-XCP Constant Flow series is our most economical single and multi-place, portable oxygen system for general aviation. Weight is kept to a minimum by our low profile, light weight regulators, MH-3 or MH-4 Flowmeters and Cylinders. The XCP systems come complete with Cylinder(of your choice), Regulator, Mountain High MH-3 or MH-4 Flowmeter, Oxymizer™ cannula, facemask, tote bag and cylinder carry case for easy transport and seat back mounting. Full-Pack The XCP System can be used up to 25,000 ft. with the MH-4 Flowmeter and Facemask. Choose the MH-3 Flowmeter fo flights up to 18,000 ft. Each XCP **System Includes**: • Instructions • Cylinder with Valve, Gauge and carry case. • Pressure reducing Regulator with self sealing outlet for each user. • MH3 or MH4 Flow-Meter (Your choice when ordering) • Oxymizer (oxygen conserving) Cannula.• Facemask • Tote-Bag.
Models include Full-Pack padded cylinder carry/strap-down case

Model	Description	Part No.	Price
00XCP-0064-34	682 liter (24 cu. ft.) 4-place carry-on system	13-03657	---
00XCP-0064-32	682 liter (24 cu. ft.) 2-place carry-on system	13-03658	---
00XCP-0064-31	682 liter (24 cu. ft.) 1-place carry-on system	13-03659	---
00XCP-0060-34	415 liter (15 cu. ft.) 4-place carry-on system	13-03660	---
00XCP-0060-32	415 liter (15 cu. ft.) 2-place carry-on system	13-03661	---
00XCP-0060-31	415 liter (15 cu. ft.) 1-place carry-on system	13-03662	---
00XCP-0054-31	180 liter (6 cu. ft.) 1-place carry-on system	13-03663	---
00XCP-0064-44	MH4 Place XCP Constant Flow system w/ AL-6 & MH4 Flowmeter	13-24037	---

MOUNTAIN HIGH EDS O2D2 OXYGEN SYSTEMS

The MH EDS-O2D2 Pulse Demand Oxygen Delivery System is the only single unit, portable, two-place oxygen system currently available for general aviation. A variety of options allow you, the pilot, to customize a system to your specific needs. The O2D2 kit comes with (3) AA batteries, 2 standard cannulas, 2 flare tip cannulas, and 2 face masks all in a handy carry bag. **Note:** Our EDS O2D2 and O2D1 are portable systems designed and calibrated to be used with our regulators (~15 psig. dynamic to 25 MAX. psig. static). However, if you wish to operate from the outlets of a built-in system, we offer the EDS-STR stabilizing regulator. This will allow our portable EDS systems to operate with built-in systems that supply up to 90 psig. to the outlets in the aircraft.

Model	Description	Part No.	Price
00EDS-2060-02	with AL-415 Aluminum cylinder and XCR-540 regulator - 2 Place	13-05068	---
00EDS-2062-02	with AL-647 Aluminum cylinder and XCR-540 regulator - 2 Place	13-05069	---
00EDS-2053-02	with AL-180 Aluminum cylinder and XCR-540 regulator with holster pack	13-07313	---
00EDS-2060-04	(2) units with AL-415 Aluminum cylinder, FPR-540 regulator - 4 Place	13-07315	---
00EDS-2062-04	(2) units with AL-647 Aluminum cylinder, FPR-540 regulator - 4 Place	13-07316	---
00EDS-2064-02	with AL-682 Aluminum cylinder and XCR-540 regulator - 2 Place	13-07317	---
00EDS-2064-04	(2) with AL-682 Aluminum cylinder, FPR-540 regulator - 4 Place	13-07319	---
00EDS-2002-02	with KF-011 Kevlar cylinder and XCR-540 regulator - 2 Place	13-07321	---
00EDS-2004-02	with CFFC-022 carbon fiber cylinder, XCR-540 regulator - 2 Place	13-07323	---
00EDS-2084-02	with CFF-480 Silica cylinder, XCR-540 regulator - 2 Place	13-07324	---
00EDS-2000-00	Kit only- Regulator or Cylinder Not Included	13-07312	---
00EDS-2084-02	with CFF-480 Silica cylinder, XCR DIN-477 (Euro Inlet) regulator.	13-07326	---
00EDS-02D2-26	Oxygen Controller	13-18720	---

MOUNTAIN HIGH TRANSFILLER UNITS

TR-55 00GSE-1008-00
Standard length 18 inches. The TR-55 is the most economical way to fill your cylinder. One side has a CGA-540 nut & nipple with an O-ring seal, while the other end is equipped with a large hand nut with bare nipple. This allows you to slowly and safely bleed the line so the fittings can be easily removed from the cylinder.
P/N 13-03923 ..... ---

TR-75B 00GSE-1012-00
Standard length 24 inches. The TR-75b is our most popular personal transfiller. It is equipped with O-ring seals on both of the CGA-540 (oxygen) ends for a positive and air-tight fit by hand. A handy bleed valve is included to relieve the pressure in the system so that the fittings can be easily removed from the cylinder without damage to the O-ring seals.
P/N 13-03924 ..... ---

TR-95B 00GSE-1016-00 Standard length 48 inches. The TR-95b is an economical transfilling system for soaring and flying clubs where many cylinders are serviced frequently. Both connecting ends have O-ring seals for a positive air-tight fit. The pressure/contents gauge shows how much oxygen remains in the master (rental) cylinder .....P/N 13-03925 ..... ---

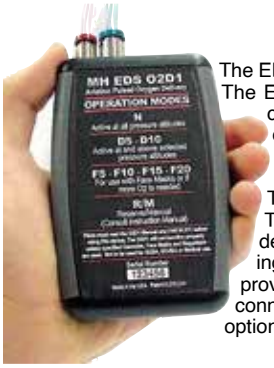
02 TRANSFILLER FBO KIT

The standard kit comes with a non-venting style regulator, and the four most common fill adapters that you will need. Incorporates a flow restrictor to prevent filling too fast, as well as built-in filters. All Components are cleaned and ready for Oxygen use.
w/8' Hose .....P/N 13-14949 ..... ---
w/o Hose .....P/N 13-12735 ..... ---

TA-916-S
TA-916-S Transfiller adapter, Adapts CGA-540 to the Scott fitting (9/16-18 threads). Commonly known as the Scott 26875, 5020-1 Airline or AS1046 fitting. A socket is on the CGA-540 end to attach to transfiller lines .....P/N 13-14773 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.



MOUNTAIN HIGH EDS O2D1 OXYGEN SYSTEMS

The EDS-02D1 System enables the general aviation pilot to fly at pressure altitudes up to 25,000 feet with safety and comfort. The EDS-O2D1 digital Pulse- Demand™ system reduces Oxygen consumption dramatically. Different from the "standard" constant flow systems, the EDS-O2D1 Pulse-Demand™ system wastes no Oxygen during the breathing cycle when oxygen is not being delivered to the lungs. The average user will enjoy a duration increase of two to three times compared to the constant flow systems.

The built in Barometer adjusts for Altitude increase while reducing the pilots work load.

The unit operates for up to 100 hours on two AA batteries.

The EDS-O2D1 should be used with any of our XCR, XCP, or 4-place FPR regulator. for correct pressure and oxygen delivery. The low-pressure service line is a high quality polyurethane line that is kink-resistant and flexible under varying temperatures. The cannula, face mask and service line connect to the EDS unit via color-coded "Quick-Connects" providing an air-tight fitting by hand. These fittings can be connected and disconnected many times. With the optional XCP connecting kit, the EDS can be used with an XCP system at the same time flow meters are being used. In addition, the optional ALPS Facemask with or without microphone, is the perfect addition to any EDS system.

Model	Description	Part No.	Price
00EDS-0084-01	with CFF-480 Silica Cylinder and XCR-540 regulator with tote bag - 1 Place	13-02387	---
00EDS-0054-01	with AL-180 Aluminum Cylinder and XCR-540 Regulator with tote bag - 1 Place	13-03668	---
00EDS-0002-01	with KF-011 Kevlar cylinder and XCR-540 regulator with tote bag - 1 Place	13-03666	---
00EDS-0004-01	with CFFC-022 carbon fiber cylinder, XCR-540 regulator with tote bag - 1 Place	13-03665	---
00EDS-0004-02	(2) with CFFC-022 carbon fiber cylinder, XCR-540 regulator with tote bag - 2 Place	13-03670	---
00EDS-0060-02	(2) units with AL-415 Aluminum cylinder, FPR-540 regulator with tote bag - 2 Place	13-03671	---
00EDS-0084-02	(2) and CFF-480 Silica cylinder, XCR-540 regulator with tote bag - 2 Place	13-03672	---
00EDS-1052-00	with XCR-540 regulator	13-02390	---
00EDS-1054-01	with XCR-540 regulator with gauge	13-02391	---
00EDS-1062-02	with XCR DIN-477 (Euro Inlet) Regulator with gauge	13-02392	---
00EDS-02D1-26	Oxygen Controller	13-18719	---

MOUNTAIN HIGH AVIATOR STANDARD CANNULA

Calibrated for use with the MH-4 flowmeter or any other device calibrated to the standard protocol of 1 liter per minute per 10,000 ft. per FAA-FAR 23.1447. This Cannula works great with a headset!.....P/N 13-11590.....

MOUNTAIN HIGH ALPS FACE MASK

MH ALPS FaceMask and the MH ALPS-M (for microphone) FaceMask. The ALPS-M is outfitted with an electronic "Clear-Speak" ambient noise-canceling microphone that enables pilots to fly with safety and comfort with clear, crisp voice communication and is compatible with most aircraft systems. The mask is easy to put on and exceptionally comfortable as it does not require a polyvinyl bag. The ALPS or the ALPS-M FaceMask can be used with any of the MH oxygen systems.

Description	Part No.	Price
Small	13-05136	---
Med.	13-04155	---
Large	13-05137	---
w/ Mic Med.	13-05135	---
w/ Mic Large	13-04156	---

Alps Constant Flow Feed Tube Use with MH-4 Flowmeter only
P/N 13-11388 ..... ---
Alps EDS Style Feed Tube.....P/N 13-13098 ..... ---

MOUNTAIN HIGH FLOWMETER MH-4

The MH-4 has two altitude flow scales. The left (compressed) scale is calibrated for the Oxymizer™ cannula and is limited to flight of 18,000 ft.and below. The right scale is calibrated for a standard cannula or facemask up to 25,000 ft.
Plastic.....P/N 13-06128 ..... ---
Metal.....P/N 13-23410 ..... ---

MOUNTAIN HIGH MH-3 XCP FLOWMETER WITH CPC FITTING AND TUBING

The MH-3 Flowmeter is calibrated for use with the Oxymizer™ cannula for flight up to 18,000 ft. The left (compressed) scale is calibrated for the Oxymizer™ cannula and is limited to flight of 18,000 ft.and below. The right scale is calibrated for a standard cannula or facemask up to 25,000 ft. **Note**: This Flow Meter has the CPC style fitting, that works with the XCP Constant Flow Systems.
Plastic.....P/N 13-23408 ..... ---
Metal.....P/N 13-23409 ..... ---

NATURAL BOOST OXYGEN

Boost Oxygen is a convenient, lightweight, and portable 95% pure Aviator's Breathing Oxygen. Perfect for hikers, athletes, and GA pilots flying at high altitude (but still below 12,000 feet), Boost can help you out on your next trip.
Instructions for use:
• Place mask under the nose and over the mouth.
• Press trigger down to activate flow.
• Breathe deeply through the mouth.
Medium Size - 5 Liters.....P/N 13-21167 ..... ---
(case of 12).....P/N 13-21167-1..... ---
Large Size - 10 Liters .....P/N 13-12976..... ---
(case of 12).....P/N 13-12976-1..... ---

NORAL OXYGEN CANNULA CARRIERS

See www.aircraftspruce.com for our full line of Noral Oxygen Canula Carriers.

IOXIMETER SMARTPHONE PULSE OXIMETER

Pulse Oximeter for Smart Phones. Reads Oxygen Saturation. Reads Pulse Rate. No batteries required. Powered through the headphone jack on your phone.
P/N 13-17632 ..... ---

FINGER PULSE OXIMETER

MD300 C201 is intended for noninvasive spot-check measurement of function oxygen saturation of arterial hemoglobin (SpO2). It can be used with adult and pediatric and widely used in family, clinic and hospital. **Features**: • SpO2, PR are displayed on screen • Simple and convenient operation • Light, compact (the weight is 50g including batteries) Low power consumption, two AAA batteries can be continuously Operated for 30 hours • Indication of low power consumption • Two display modes.....P/N 13-05666 ..... ---

PS

OXYGEN SYSTEMS

SOLOPACK PERSONAL OXYGEN PACK

The ALL-IN-ONE SOLO Pack with A-5 Flow Meter and ALL-IN-ONE Connector Kit is a complete and simple oxygen kit for the pilot and/or passenger. The Connector Kit allows you to connect to virtually all general aviation aircraft. This package iStandard Face Mask, Oxymizer Cannula, A5 Flow Meter with tubing, and All-in-One Connector Kit. Includes all necessary tubing and connectors.
P/N 05-14888 ..... ---

PILOTPACK PERSONAL OXYGEN PACK

The PILOTpack with ALL-IN-ONE Connector Kit is the perfect solution for the pilot who needs complete breathing gear AND a Mic Mask. The ALL-IN-ONE Connector Kit allows you to connect to virtually all general aviation aircraft, and the comfortable silicone Mic Mask ensures crystal clear communication when flying at high altitudes. This convenient ALL-IN-ONE package includes: Comfort Mic Mask, Oxymizer Cannula, A5 Flow Meter and All necessary tubing, and Connector Kit. Includes all necessary tubing and connectors.
P/N 05-14890 ..... ---

PLANE PACK - 4 PERSON

The PLANEpack with ALL-IN-ONE Connector Kits is a versatile kit that fits a number of passengers and/or pilots with all the breathing gear they need. The Connector Kits allow you to connect to the majority of General Aviation planes flying today. Kit includes: A-5 Flow Meters (x4), Oxymizer Cannulas (x4), Face Masks (x2), Mic Masks (x2), Pulse Oximeter (x1), Gear Bags (x2), Connector Kits (x4), and 1 - Pulse Oximeter.....P/N 05-14896 ..... ---

PLANE PACK - 6 PERSON

The PLANEpack with ALL-IN-ONE Connector Kits is a versatile kit that fits a number of passengers and/or pilots with all the breathing gear they need. The Connector Kits allow you to connect to the majority of General Aviation planes flying today. Kit includes: A-5 Flow Meters (x6), Oxymizer Cannulas (x6), Face Masks (x4), Mic Masks (x2), Pulse Oximeter (x1), Gear Bags (x3) and Connector Kits (x6).
P/N 05-14897 ..... ---

PLANE PACK - 8 PERSON

The PLANEpack with ALL-IN-ONE Connector Kits is a versatile kit that fits a number of passengers and/or pilots with all the breathing gear they need. The Connector Kits allow you to connect to the majority of General Aviation planes flying today. Kit includes: A-5 Flow Meters (x8), Oxymizer Cannulas (x8), Face Masks (x6), Mic Masks (x2), Pulse Oximeter (x1), Gear Bags (x4) and Connector Kits (x8).
P/N 05-14898 ..... ---

OXYGEN CHARGE FILL ADAPTER WITH DUST CAP

1/4 JIC/AN-4 to 9/16-18 UNF-2B aircraft connection. Includes dust cap/protective nipple with chain/lanyard. Shipped certified clean for immediate use .....P/N 12-04870 ..... ---

OXYGEN CHARGE FILL ADAPTER 30° BEND

1/4 JIC/AN-4 "Male Flared Tube" connected by 1-inch tube with AN800-3 (3/8-24 UNF-2B) aircraft connection. Includes dust cap/protective nipple with chain/lanyard. Shipped certified clean for immediate use.....P/N 12-04869 ..... ---

OXYPACK1 - 2 PERSON OXYGEN SYSTEM

In the box: • 1 - 6.3 CU. Ft. Aluminum Oxygen Cylinder • 1 - 6.3 Cubic Foot Case With Shoulder Strap • 2 - A-5 Oxygen Flow Meter With Tubing And CPC Connector • 2 - Oxymizer Cannula For Use With Flow Meters • 2 - Standard Face Mask - Certified to 25,000 Feet • 1 - Two-Person Oxygen Pressure Regulator..P/N 05-14892 .....

OXYPACK2 - 2 PERSON OXYGEN SYSTEM

In the box1: • 1 - 15 CU. Ft. Aluminum Oxygen Cylinder • 1 - Carrying Case With Seatback Harness • 2 - A-5 Oxygen Flow Meter With Tubing And CPC Connector • 2 - Oxymizer Cannula For Use With Flow Meters • 2 - Standard Face Mask - Certified to 25,000 Feet • 1 - Four-Person Oxygen Pressure Regulator..P/N 05-14893 .....

OXYPACK3 - 2 PERSON OXYGEN SYSTEM

In the box: • 1 - 22 CU. Ft. Aluminum Oxygen Cylinder • 1 - Carrying Case With Seatback Harness • 2 - A-5 Oxygen Flow Meter With Tubing And CPC Connector • 2 - Oxymizer Cannula For Use With Flow Meters • 2 - Standard Face Mask - Certified to 25,000 Feet • 1 - Four-Person Oxygen Pressure Regulator
P/N 05-14894 ..... ---

OXYPACK4 - 2 PERSON OXYGEN SYSTEM

In the box: • 1 - 22 CU. Ft. Aluminum Oxygen Cylinder • 1 - Carrying Case With Seatback Harness • 4 - A-5 Oxygen Flow Meter With Tubing And CPC Connector • 4 - Oxymizer Cannula For Use With Flow Meters • 4 - Standard Face Mask - Certified to 25,000 Feet • 1 - Four-Person Oxygen Pressure Regulator • 4 - FLOWGLOW for use with A-5 Flow Meter...P/N 05-14895 .....

X3 SOLO PACK

Pilot tested and pilot approved! The X3 Demand Conserver is the best demand conserver in the aviation industry. The X3 Demand Conserver is the only fully mechanical demand conserver (no batteries required). By giving you oxygen only when you "demand" it, the X3 will extend the duration of your oxygen supply by at least 300%. The X3 Solo Pack includes everything you need, including a dual lumen cannula, dual lumen mask, connectors, and tubing. The X3 is STC'd for Cirrus and certified up 25,000 feet.
P/N 05-14889 ..... ---

X3 PILOT PACK

This package includes the X3 Demand Conserver PLUS a Comfort Mic Mask certified up to 25,000 feet! The X3 Demand Conserver is the only fully mechanical demand conserver (no batteries required). By giving you oxygen only when you "demand" it, the X3 will extend the duration of your oxygen supply by at least 300%. This X3 Pack includes everything you need PLUS a Comfort Mic Mask for crystal clear communications at high altitudes. Includes: dual lumen cannula, dual lumen Mic Mask, connectors, and tubing. The X3 is STC'd for Cirrus and certified up 25,000 feet.
P/N 05-14891 ..... ---

PS

GROUND SUPPORT TOWBARS

CESSNA - This two piece telescoping tow bar fits all Cessnas with 5/8" lugs on nosegear. Overall length 42.5", collapsed 24".
P/N 13-01800 ..... ---

CHEROKEE - This one piece tow bar has a retractable locking mechanism that gives a positive lock when installed. Overall length 31" .....P/N 13-01600 ..... ---

BEECHCRAFT - The compact design of this tow bar makes it very popular among Beech owners. Overall length 38", collapsed 21.5".
P/N 13-01900 ..... ---

ARROW - This offset "T" handle design fits into the Arrow axle making it a simple and easy design to use. Overall length 33".
P/N 13-01700 ..... ---

TWIN CESSNA - The extra length provides extra nose clearance and leverage for Twin Cessnas and remains very compact. Overall length 55", collapsed 34".
P/N 13-01850 ..... ---

TWIN PIPER - (HH-007) Piper Twin Comanche, Apache, Aztec, and Navajo Towbar. Two section until 28" collapsible, 49-1/2" overall length.
P/N 13-01778 ..... ---

COMANCHE - The same as our P/N HH-007 except one piece construction. Overall length 33" .....P/N 13-02100 ..... ---

DELUXE CESSNA - The deluxe Cessna towbar is very popular and designed for those who demand the ultimate in convenience and durability. Spring loaded forks allow easy one handed engagement without getting on your hands and knees. Length 45.5" extended, 26" collapsed. Wt. 3.75 lbs. Ideal for Cessna RGs Including 210 series.
P/N 13-01540 ..... ---

DUTCHESS/PIPER - Fits Dutchess and Piper nose gear axle. Telescoping design provides extra nose gear clearance. Overall length 48", collapsed 28".....P/N 13-02210 ..... ---

RV-A M-340-026 - Two piece spring loaded design. 26" collapsible, 43" overall. Code 7.
P/N 13-18476 ..... ---

DELUXE PIPER - The deluxe Piper towbar offers all the features of a standard Piper towbar plus the convenience of a two-piece design. When extended, this model provides additional propeller clearance and leverage. Length: 42" extended, 23" collapsed. Wt. 3.5 lbs.....P/N 13-01550 ..... ---

UNIVERSAL TOW BAR WITH CLEVIS HITCH

CESSNA/ BEECH/ MOONEY - This universal tow bar is excellent for use with tug, tractor, or by hand. It fits most Cessna singles & twins with 5/8" lugs, Beech singles and twins with 1/4" lugs, all Mooneys, Twin Commanders, Lake and Commanche. Slide lock quickly adjusts and holds firmly .....P/N 13-02350 ..... ---

PIPER - Same design as the universal tow bar above, this towbar fits Piper single fork design, Arrow, Malibu, Lance, Seneca, and Seminole. Slide lock quickly adjusts and holds firmly.
P/N 13-02351 ..... ---

SCOTT TAILWHEEL - A tow bar designed for aircraft using a Scott 3000 series tailwheel. Overall length 48", collapsed 28".
P/N 13-02205 ..... ---

BEECHCRAFT AXLE - Its collapsible design makes it easy to fit in the baggage area. Collapsible Length: 26" Overall Length: 43".
P/N 13-02215 ..... ---

CHEETAH/CIRRUS - This tow bar is designed to fit Grumman and Cirrus 20/22. aircraft. Its collapsible design makes it easy to fit in the baggage area. Overall length 43", collapsed 26" .....P/N 13-02200 ..... ---

ERCOUPE -Specially designed for Ercoupes. This tow bar has a spring loaded lever action for ease of operation. Overall length 46.5", collapsed 28.5"....P/N 13-01580 ..... ---

1-1/8" AXLE - This is a universal tow bar designed for aircraft with 1-1/8" axles such as Cessna Skymaster and Piper Seneca. Overall length 56", colapsed 33".
P/N 13-02110 ..... ---

COMMANDER - This model fits Rockwell 112 and 114. Spring loaded forks for ease of operation. Overall length 46.5", collapsed 28.5".
P/N 13-01570 ..... ---

UNIVERSAL - For the FBO this is an ideal hand held universal tow bar. Fits Cessna, Beech, Piper, Scott Tailwheel and many others. Overall length 57", collapsed 34". Fits aircraft with 5/8" lug on the nose gear strut.
P/N 13-02250 ..... ---

VIKING - Designed especially for Bellanca Viking axle. Collapsible design and spring loaded fork. Overall length 46.5", collapsed 28.5" .....P/N 13-02220 ..... ---

AERO-TOW CIRRUS TOWBAR - This Cirrus Towbar is designed specifically to fit the gear of the Cirrus Aircraft. At just 6 lbs and a shipping box of 1-3/4" x 12" x 39" you will find this to be a quick and easy stowaway.
P/N 13-17597 ..... ---

FBO UNIVERSAL TOW BAR WITH RING HITCH T-100

This heavy duty universal tow bar is standard equipment for FBOs. Fits most Piper, Cessna, Beech,Mooney, AeroCommander, and many others. The adjustable fork allows you to extend the fork assembly from 3" to 10". This tow bar is extra long at 7 ft. 6 inches. The T-100 is not made for specific aircraft. It has spring loaded adapters that will fit and 1/4" to 5/8" towpins on the aircraft axle. This will not work with aircraft that have tow pins on the landing gear .....P/N 13-02355 ..... ---

AIRCRAFT WINCH & MOUNTING KIT

AIRCRAFT WINCH - Floor mounting aircraft winch with hook cable to tail tie-down ring and press button operation. Easily moves aircraft up to 3,000 lbs. rolling weight on smooth, flat surfaces. If uphill, on gravel, or there is a large hangar lip, most aircraft will require the Heavy Duty variant. Comes with 100' of cable and 75' of control cord and has an automatic safety shut off. Cable speed is 30 feet per minute. Voltage 100 AC. Floor mount is required for operation (sold separately), Part No. 13-06124. P/N 13-01764 ..... ---

AIRCRAFT WINCH MOUNTING KIT - Aircraft Winch Mounting Kit Everything you need to secure the winch to the floor. Mounting kit only. Can be used with P/N's 13-01764 and 13-06125 in a floor mount is desired.
P/N 13-06124 ..... ---

PS

TOWBARS

BOGERT TOWBARS (BOGI-BARS)

Light enough to stow Built from a combination of steel for maximum durability comfort grips on the handle and spreader bar chip resistant red bar will look great for years.Operation: extend the handle easily with high shear wick release pin apply forward pressure on the spreader bar to open the wishbone jays. Line up the Bogi-Bar attachment at the tow points or axle depending on model. Release the tension on the spreader bar and you are locked on! The tow bar will not slip off the plane. Reverse for removal.

TAIL WHEEL AIRCRAFT				
Model	**Fits**	**Ext. Length**	**Part No.**	**Price**
4-API	Aircraft Products Tailwheel	48”	12-02097	---
4-ABI	Alaskan Bushwheel 3400B	48"	13-06106	---
04M-XP	Cessna XP Modification	48"	13-06107	---
4-TDG	Scott 3200 & 3400/ABI 3200/3400	48"	13-10000	---
4-F24	Fairchild 24, Beech Stagger Wing	48"	13-02410	---
4-RV	Vans RV3, RV4, RV6, RV8, RV9	48"	13-02408	---
NOSE WHEEL AIRCRAFT				
Model	**Fits**	**Ext. Length**	**Part No.**	**Price**
4-35	Beechcraft- Bonanza, Debonair, Duchess, Duke & Skipper	49"	13-10030	---
4-19/23B	Beechcraft-Musketeer, Sport, Super, Sierra & King Air	48"	13-01808	---
4-17/30	Bellanca-Viking Series	48"	13-01809	---
4-172	Cessna 150, 152, 172, 175, 177, 182, 310R, RV-4	48"	13-10040	---
4-206	Cessna 205, 206 & 207	48"	13-10060	---
4-210	Cessna 172RG, 177RG,182RG & 210 Series	48"	13-10050	---
4-182-XL	Cessna 182 S (1996 and up) and T (2001 and up) models with long nose.	55”	13-11389	---
4-SR	Cirrus SR 20 &22	48"	13-06108	---
4-AA	Gulfstream American AA1 & AA5	48"	13-02407	---
4-Lake	Lake Amphibian	48"	13-02411	---
4-Moon	Mooney Aircraft	48"	13-01810	---
4-24/30	Piper Comanche PA-24, PA-30 & PA-39 Also the Cherokee Six axle w/pants if tabs above wheel are broken	48"	13-10010	---
4-22/28	Piper PA-22, & PA-28 Series (Not PA-28R)	48"	13-10020	---
4-28R	Piper PA-28R Series - Hand Pull for dog-leg style	49”	13-02098	---
4-34	Piper Seneca PA34 200/220/220T, and Aerostar 601P *handle extends to 78”	78"	13-01812	---
4-PA46	Piper Malibu & Mirage –Vehicle Pull	72"	13-06112	---
4-28R, 4-PA46	Piper PA-28R, PA- 32R, PA-46 Hand Pull Towbar. Malibu, Mirage, Meridiam and Saratoga Aircraft.	60”	13-11203	---
4-RVA	Vans - RV6A, RV7A, RV8A, & RV9A	48"	13-01811	---
4-LANCE	Lance Towbar	48”	12-03546	---
4-20	Diamond DA20	--	13-06111	---
4-DA40	Diamond DA40	--	13-06110	---
4-DA42	Diamond DA42	--	13-06109	---
4-RV10	Vans - RV10	48"	13-04282	---
4-Socata	Socata Style Bogi Bar	49"	13-06113	---
4-Navion	Navion Aircraft	48"	13-21892	---

BOGI BAR EXTENDED T-HANDLE

Includes new grips and is 7” longer than the standard Bogi Bar T-Handle. The extra length can be quite beneficial for aircraft with extra-long noses like the Cessna 182 S (1996 and up) and T (2001 and up) models. Tall customers will find this T-Handle easier on the back since it lowers that overall angle of the tow. The Extended T-Handle works with any of the standard Bogi-Bars and will increase the overall length to about 55”. Model 4-TXL ....P/N 13-11199 ..... ---

BRACKET TOWBARS

MODEL TR-6

Excellent for towing aircraft such as the T-6, P-51, Stearman, Staggerwing Beech, or any aircraft with 3/4” or larger eye bolts. Length: 12’ Spread: 12 ft. Weight: 62 lbs.
Ring Hitch .....P/N 13-10131 ..... ---
Ball Hitch.....P/N 13-10130 ..... ---

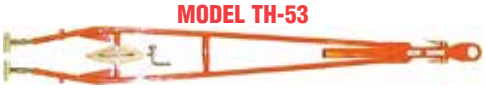
BRACKETT TH-6 TOWBARS

The TH-6 is a light-weight universal towbar designed primarily for hand towing. The TH-6 eliminates the mad hunt for the proper towbar when moving a hangar full of singles and light twins. This towbar also has a good handle for pulling and a ring ,ball or clevis hitch for occasional light towing.
Note: The piper manual states that the tow pins are for hand towing.
For powered towing we suggest adapter set P/N 13-15488.
Ring Hitch.....P/N 13-18547 ..... ---
Ball Hitch .....P/N 13-18548 ..... ---
Clevis Hitch .....P/N 13-18722 ..... ---
Piper Adapter - Qty 2 Required.....P/N 13-15488 ..... ---

MODEL TR-34

The TR-34 has the light weight of the TR-3, and the strength of the TR-4. It has the same universal features that fit most aircraft from C-150 through aircraft up to 14,500 lbs. Wt: 35lbs. Available in 3 hitch styles. .
Ring Hitch (TR-34R).....P/N 13-10085 ..... ---
Ball Hitch (TR-34B) .....P/N 13-10086 ..... ---
Clevis Hitch (TR-34C) .....P/N 13-10087 ..... ---
TWA-10 Scott Tail Wheel Adapter (2 pcs. req).P/N 13-10089 ..... ---

MODEL TH-53



Features a tow bar length of 80” to 94” (extended). Wt: 22 lbs., Max. aircraft Wt: 7,000 lbs.
TH-53R Towbar w/Ring hitch .....P/N 13-03338 ..... ---
TH-53B Towbar w/Ball hitch.....P/N 13-03339 ..... ---
TH-53C Towbar w/Clevis hitch.....P/N 13-03340 ..... ---

MODEL TR-71, 72, & 73

Lightweight aluminum designed for Waco, Stearman, & Cessna 195 type aircraft. Length: 100”, Spread: 90”, Wt: 22 lbs. Hook dia: TR-71 (.850), TR-72 (1.25). TR-71R Towbar w/Ring hitch.
P/N 13-01910 ..... ---

CUSTOM TOWBARS & OPTIONS FOR UNIVERSAL TOWBARS

Model	Description	Part No.	Price
TWA-10	Scott Tail Wheel Adapter (2 pcs. req.)	13-10089	---
T-MU2-10	Kit-Crank & head assembly for converting TR-34 to TR-44	13-01890	---
TWA-11	Tail Wheel Adapter for DGA-Staggerwing (2 pcs. req.)	13-01891	---
T-4W	Wheel Set (Set of 2) for TR-34	13-01892	---
T-375	Adapter .375” for Aerospatiale-Trinidad, Tabago (2 pcs.)	13-01893	---
T-475	Adapter .475” Outer Diameter (2 pcs. req.)	13-01894	---
T-625	Adapter .625” for Augusta 109 & Others (2 pcs. req.)	13-01895	---
T-750	Adapter .750” for Commander 114, S-76 & Other	13-01896	---
T-Maule	Adapter for Maule Tail Spring (1 pc. req.)	13-01897	---
T-34-04	Shock Absorbing Ring Hitch (1 pc. req.)	13-01899	---
TR-PC	Towbar; Pilatus PC-12, 3 pcs., 30 lbs.	13-01686	---
TR-PCS	Towbar; Pilatus PC-12, 1 pc., 19 lbs.	13-01903	---

VISIT WWW.AIRCRAFTSPRUCE.COM FOR MORE TOWBARS AND ADAPTERS.

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

THE TAIL-DRAGGER DRAGGER

This manual tow bar has heavy-duty solid rubber 8-inch wide tread wheels and will move most tail-draggers up to 2,000 lbs. and tail wheel tires up to 10 inches in diameter. Options Available: 3rd Wheel for heavier ships, and RV tail wheel lift pin.

Features:

• Patented Design • No Winches • No Hydraulics • No Metal To Metal Contact • No Adapters Required • Superior Traction • 5 Second Loading & Unloading • Will fit Almost Any Aircraft • Tail Wheel Stays In Trailing Position • Lifting Pins Grip and Lift Tail Wheel • Maneuver In Any Direction • Operator Has Good View Of Wingtips

Compatibility: Important Compatibility **Requirements**:
• Your aircraft must have 9" of clearance from the ground to the bottom of the tail • The tail wheel cannot be situated a significant distance from the tail • If you have an RV or Waco, especially measure and confirm these requirements as many airframes will not be compatible.

Tail-Dragger Dragger™ ..... P/N 13-01510 ..... ---
RV Tail Wheel Lift Pin ..... P/N 13-04936 ..... ---

BOGERT UNIVERSAL BIG BOGI TOWBAR

The 04M-BBU is unique because it can attach to virtually any aircraft. It has interchangeable "Feet" that can be matched to any aircraft. Each of the "Feet" typically adapts to several models or series of aircraft and several sizes can be carried right on the tow bar. This is perfect for FBO's that deal with a variety of aircraft or aircraft owners that have more than one plane or shared hangars. "Interchangeable feet sold separately".

Description	Part No.	Price
Universal Big Bogi Bar	12-03168	---
Jabiru Sport; Kit Fox	11-11815	---
Cessna 150, 152, 172, 182, Vans, and many more	12-03172	---
Cirrus SR20, 22	12-03174	---
PA22, 28, 32, Cherokee Six	12-03175	---
Aerostar 601, Bellanca, Mooney	12-03176	---
Glastar, Legend Cub, Rockwell	12-03177	---
Alaskan Bushwheel, Scott 3200, 3400	12-03178	---
Diamond DA-40	12-03179	---
Diamond DA-20	12-03180	---
Cessna 172RG, 177RG, 182RG, 210	12-03181	---
Beechcraft Bonanza, 35	12-03183	---

See www.aircraftspruce.com for complete application list

SABRE TUG TYPE TOWBAR

Why The Sabre Line of Tug Type Towbars?

The Sabre line of tug type aircraft towbars incorporates a unique design that allows the operator to connect to the aircraft as a one man operation. This is done using Derringer's slide and latch design. This cutting-edge design was so unique it was awarded a US patent for its revolutionary slide and latch operation. The Sabre tug type tow bar comes configured to connect to a large range of aircraft and offers a large range of attach fitting to accommodate virtually any aircraft nose gear tow points.

Features: • Favorite among FBOs for years •Fit a large variety of aircraft • Quick change Specialty Aircraft Nose Gear Adaptors • Rated up to 10,000 lbs • Incorporates Derringer's slide and latch design • Available with a tow ring, ball hitch mount or clevis style hook up. Towbar Operation - To use the operator positions the tug to a relatively close location to the aircraft, then slides the telescoping hitch to the tow vehicle's attach point and then connects. From there the operator moves the tow vehicle toward the aircraft and the latch mechanism connects making hookup a breeze.

P/N 13-26013 ..... ---

NOSE WHEEL DRAGGER DRAGGER

The Nose-Dragger Dragger features a swing gate front roller (for easy loading), 10 ball bearing rollers (which push and guide the nose wheel), and does not require the use of adapters, winches, or hydraulics. Effortless ground handling is accomplished by its lightweight design and slow walking speed. The Nose-Dragger Dragger accepts nose wheels up to 600 x 6 (with or without wheel fairings), and no metal-to-metal or metal-to-fiberglass contact. Available in gas or electric power models. The 12V electric powered Nose-Dragger Dragger will accept aircraft up to 3,000 lbs. The Nose-Dragger Dragger Gas powered model accepts aircraft up to 6,000 lbs.
Please call 1-877-477-7823 for freight quote.

Gas Powered, 6.5HP (up to 12,000 lbs) ..... P/N 13-05103 ..... ---

ACCESSORIES

Snow Chains ..... P/N 13-04932 ..... ---
Battery Charger - 24V ..... P/N 13-04934 ..... ---
Mag-Light / Head Lamp ..... P/N 13-04935 ..... ---

ELECTRIC DRAGGER® NOSE-DRAGGER

This powerful 24-volt electric aircraft tug will fit and move any nose wheel airplane up to 4,000 lbs. without wheel fairings as well as those with wheel fairings that have 3" or greater of clearance from the fairing to the ground. It utilizes a smooth thumb throttle speed control for precise forward and reverse movements. The built in differential allows for easier turning and even better control! Comes with batteries and smart charger! Ships fully assembled! ..... P/N 13-18726 ..... ---

ELECTRIC DRAGGER® TAIL-DRAGGER

This powerful 24-volt electric tug has heavy-duty 11 1/2 -inch air wheels and will move tail-draggers up to 5,000 lbs., tail wheel tires up to 16 inches in diameter. It utilizes a smooth thumb throttle speed control for precise forward and reverse movements. Uses 2 batteries hooked up in series that are supplied with the unit and on-board smart charger. The built in differential allows for easier turning and even better control! Ships on a skid. Comes with batteries and smart charger! ..... P/N 13-18727 ..... ---

BRACKETT MULTI-LINK TOWBARS

User benefits: All towbars and heads are interchangeable with other popular tow bar systems such as tronair© warranty on all materials and workmanship money saving alternative to multiple towbars.

Description	Part No.	Price
TY-TB75 Multi-Link Towbar	13-04158	---
TY-TB-FTD Flat Tire Dolly T/B	13-04159	---
King Air/Queen Air Head Only	13-16150	---

Brackett aircraft's multi-link tow bar line consists of Towbars that utilize changeable heads which allow you to tow a large variety of turbo prop and jet aircraft. The tyga line offers a standard multi-link system for aircraft with maximum tow weights of up to 125,000 pounds. All heads and towbars are interchangeable with many widely used multi-head tow bar systems. You now have a high quality and competitive source for towbars, changeable heads, and accessories.

SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE MULTI-LINK SELECTION.

2'' HITCH BALL RECEIVER

Bogert Aviation Inc. is releasing a new receiver style for the 04M-BBU. This will work with any 2" ball. (Customer will still have a choice of Ring or Clevis at no charge). **Specifications**: Weight: 7lbs

With Clevis ..... P/N 11-11517 ..... ---

PS

ROBOTOW PORTABLE TOW BAR

The all weather Robotow 24SL is lightweight (33 lbs.) and portable, making it ideal for carrying onboard your aircraft. When the Robotow's heavy duty all weather knurled drive drum is held against the nose wheel, the aircraft is easily moved. A trigger on the handle controls the speed while a switch reverses direction on command. Powerful, portable, and dependable, Robotow is an ideal power towbar for the aircraft listed.

The Robotow 24SL includes: a comfort grip handle with variable speed switch settings of forward, reverse and locked, a black oxide coated knurled drive drum for non-slip operation with maximum torque transfer, a 5 amp 24 volt durable sealed lead acid detachable battery pack with simple wire harness connections (no memory effect problems), 3 amp charger which can be connected to battery while it is mounted to Robotow frame, and a 24 volt permanent magnet motor for maximum battery life with high torque output.

This unit fits all existing Robotow adapters which are sold separately.

Description	Part No.	Price
Robotow 6426 24V Towbar Cordless Kit with U.S. Charger	13-04222	---
ACCESSORIES		
Robotow 6425 24SL 5 amp Battery	13-11264	---
Robotow 6427 24SL 3 amp Charger	13-11265	---
Robotow Dolly Wheel	13-22378	---
AIRPLANE ADAPTERS (SOLD SEPARATELY)		
Robotow Adapter Beech 1 / Baron / Bonanza / Debonair Duke	13-03905	---
Robotow Adapter Beech 2 / Queen Air / Twin Bonanza / Trigear 18	13-03906	---
Robotow Adapter Cessna 1/150, 172, 182, 310, 340	13-03907	---
Robotow Adapter Cessna 2/ 310R, 401, 414, 421	13-03908	---
Robotow Adapter Cessna 4 / 337, 303	13-03910	---
Robotow Adapter Cessna 5 / 182RG and 210 (1962-1986)	13-03911	---
Robotow Adapter Piper 1 / Apache, Comanche, Aztec, Navajo, Twin Comanche, Bellanca	13-03912	---
Robotow Adapter Piper 2 / Colt, Cherokee, Tri-pacer	13-03913	---
Robotow Adapter T28 Trainer	13-03914	---
Robotow Adapter Cessna Caravan	13-03917	---
Robotow Adapter Trinidad	13-03918	---

POCKET TOW TAILWHEEL LEASH

Pocket tow makes tail wheel aircraft maneuvering easy. Made with one-inch heavy-duty nylon webbing, the lightweight tow bar alternative is small enough to fit in your pocket and works on tail wheel aircraft with a 360-degree full-swivel tail wheel assemblies. The small end loops around the tail wheel leaf spring and cinches up tightly to pull and steer the aircraft backwards without pushing or pulling on any flight surfaces.

Black .....P/N 13-04681 ..... ---
Red.....P/N 13-04682 ..... ---

BEECH TOWBAR ADAPTER

Beech Adapter. With this adapter you can move Beech Aircraft with the little tow pin. This adapter fits any towbar with a 3/4" or larger hole. Note: The grip length; (distance from nut to bolt head) is 1 1/2". With this adapter you can move Beech series aircraft with the small pin.

P/N 13-19793 ..... ---

GENERAL AVIATION TOWBAR

This aircraft tow bar attaches to tow vehicle, or you can move by hand with the convenient handles. Improved with powder coating. This tow bar has been used on the following aircraft: Cessna 150, 172, 182, 205, 210, Cirrus SR-22, Mooney M20, Vans RV-9A. Check your aircraft owner's manual, some aircraft manufacturers warn against towing with a bar attached to a vehicle. Make sure you do not exceed the tow limits of your aircraft.

Specifications: • Maximum Gross Weight: Unknown, however it moves a 210 with ease. About 2,000 pounds • Maximum Opening: 10 inches • Minimum Opening: 2 inches • Inside Diameter of Attach Lug: 5/8" • Outside Diameter of Attach Lug 3/4" • Length: 76" long • Tow Bar weight: 9 pounds .....P/N 13-19787 ..... ---

STEARMAN TOWBAR

This towbar easily captures your tailwheel. Just push down on the bar and latch the pental hook or drawbar ball. It makes moving the Stearman from the rear quick and easy. Made with heavy duty wheels and pump up tires. Powder coated black

P/N 13-11618 ..... ---

BOGERT ATC GROUND OPS KIT

ATC Ground OPS Kit. This Kit includes Bogert Towbars Bogi-Bars For Nosewheel, Rubber Wheel Chocks, Molded Wheel Chocks and Nylon Tie-Down Rope. **In the box:** • 1-Bogert Towbars Bogi-Bars For Nosewheel • 1-Rubber • Nylon Tie-Down Rope.

P/N 01-01149 ..... ---

GOTOW DRILL-POWERED TOW BAR 36520

Note: Powered drill is not included with tow bar. Photo is to show representation of wireless power drill placement.

Use a cordless drill to move your airplane!

• Works with most Cessna and Cirrus Aircraft without additional adapters. • Easy Steering, no need to lift or slide the tow unit

• Does not cause abrasion to airplane's tire.

• Uses body weight for down force resulting in excellent traction; No awkward arm strain. • Adjustable height and width to accommodate different airplanes • Flat-free tire won't marl up your hanger floor and never needs air. • High-Quality welded aluminum construction for strength and ease of handling. • Adjust to fit most cordless drills regardless of brand. **Weight**: 28lb(12.7kg) • **Size**: 39in H x 17in W x 69in L (99cm H x 44cm W x 176cm L) .....P/N 13-24195 ..... ---

ITOWBOTS STANDARD UNIT

iTowBot is powered by 24 volts, capable of towing a 15,000 lb gross weight aircraft. Standard model comes with Standard Single Wheel Carriage. Carriage Swivels as well as iTowBot. Compatible with Options: TB8100, TB8200, TB8300. The iTowBot is now available with a built-in 24-Volt Auxiliary Power Plug and Power Cord for starting aircraft or running accessories on the ramp or in the hangar. Compatible with Options: TB8100, TB8200, TB8300

P/N 13-05252 ..... ---

ITOWBOTS HEAVY DUTY SINGLE WHEEL CARRIAGE

The Heavy Duty iTowBot incorporates gear reduction and is 28 volts to increase the capability of moving aircraft weighing up to 30,000 pounds. Single Wheel Carriage for Single Nose Wheel or Tail Dragger Aircraft. Compatible with Options: TB8100, TB8200, TB8300. Heavy Duty iTowBot, Single Wheel Carriage with APU Plug and Power Cord. The alternate power unit (APU) adds a built-in 28-Volt Auxiliary Power Plug and Power Cord for running accessories on the ramp or in the hangar. Up to 30,000lb and compatible with Options: TB8100, TB8200, TB8300 P/N 13-05734 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

REDLINE / AERO TECH TOWBARS

REDLINE SIDEWINDER POWER DRIVER

Note: for 220v, the 220v charging accessory will need to be purchased separately. Please see the "Accessories" tab for part number 13-10436. Powerful and portable, the Sidewinder will forever change the way you move your aircraft. Powered by Milwaukee's top of the line 28V power unit with a long-lasting, lithium-ion battery pack, Sidewinder weighs less than 22 pounds, collapses to 27" and stows easily in your baggage compartment. Made in the USA using 4130 Chromoly material. The Sidewinder comes with a battery and 110V charger. Please specify aircraft model when placing an order. Carrying Case is sold separately.

Sidewinder attached securely to the front wheel.

Sidewinder collapsed.

Sidewinder extended.

Aircraft Make	Model Eligibility	Part No.	Price
	Beechcraft		
T-34	Bonanza, Baron, T-34	13-06838	---
	Cessna		
177 RG	177 RG	13-06855	---
S.E Cessna 2	172 RG, 182 RG, 210 - Includes 15" Extension Tube	13-23666	---
310, 340	310, 340	13-06857	---
Twin Cessna 2	310R, 414, 421 - Includes 15" Extension Tube	13-23667	---
	Cirrus		
SR-20, SR-22, Vision Jet	All Cirrus - Includes 15" Extension Tube	13-06862	---
	Diamond		
DA-42	DA-42 - Includes 15" Extension Tube	13-22200	---
DA-62	DA-62 - Includes 15" Extension Tube	13-22201	---
EC-01	All Eclipse - Includes 15" Extension Tube	13-23672	---
	Mooney		
Mooney	All Mooney - Includes 15" Extension Tube	13-06860	---
	Piper		
Saratoga, Arrow, Lance	Saratoga, Arrow, Lance	13-06859	---
Arrow and Lance	Arrow and Lance	13-18759	---
PI-01	Malibu, Matrix, Mirage - Includes 15" Extension Tube	13-23668	---
PI-01S	Meridian - Includes 30" Extension Tube	13-23669	---
PI-02	Piper with DLX Jet Prop Conversion - Includes 30" Extension Tube	13-23670	---

REDLINE ACCESSORIES

Sidewinder Carry Bag..... 13-06839..... ---
Sidewinder Replacement Battery ..... 13-06840..... ---

REDLINE ST-1 TOWBARS

If you own models 33, 35 or 55, the ST-1 is the least expensive, most versatile option for hand or vehicle towing. With an overall length of 38.5" and 3 pound 8 ounce weight, it fits neatly on the floor of your baggage compartment. This is our recommended tow bar for the STIFFY. For attachment to a golf cart, tractor or other powered vehicle, please use the ST-1 Vehicle Adaptor. Length is 38.5" and weighs 3 pounds 8 ounces. Made in the USA using 4130 Chromoly material.

FITS THESE BEECHCRAFT MODELS: Bonanza, Baron, Travel Air, T-34 .....P/N 13-06848 ..... ---
ST-1 Vehicle Adapter .....P/N 13-04066 ..... ---

REDLINE BE-4 TOWBARS

2-piece design for hand or powered use for heavier airplanes. Extends to 61.5" and collapses to 33" and weighs 5 pounds. For attachment to a golf cart, tractor or other powered vehicle, please use the ST-1 Vehicle Adaptor. Made in the USA using 4130 Chromoly material.

Application	Part No.	Price
BE-4 **Eclipse** - Fits All	13-06852	---
ST-1 Vehicle Adapter	13-04066	---

REDLINE BE-3 TOWBARS

2-piece design for hand or powered use. Extends to 43.5", collapses to 24.5" and weighs 4 pounds. For attachment to a golf cart, tractor or other powered vehicle, please use the S-3 Vehicle Adaptor. Made in the USA using 4130 Chromoly material.

Application	Part No.	Price
BE-3 **Beechcraft** - Fits Bonanza, Baron, Travel Air, T-34	13-06841	---

REDLINE UL TOWBARS

Very light weight, 2-piece design for hand towing only. Extends to 43.5" and stows to 25.5" and weighs 3 pounds 4 ounces. Made in the USA using 4130 Chromoly material.

Application	Part No.	Price
UL - **Beechcraft** - Fits Bonanza, Bonanza, Baron, Travel Air, T-34	13-01914	---
UL - **Piper** - Fits Arrow, Lance, Saratoga (RG).	13-01915	---

REDLINE STIFFY

A 1-pound, spring-loaded, reversable-ratcheting mechanism that greatly increases the "leverage" available to help move your plane. Must be used with either the ST-1 or BE-3 Towbar, purchased separately. Made in the USA using 4130 Chromoly material. **Application**: Beechcraft - Bonanza, Baron, Travel Air, T-34.....P/N 13-04064 ..... ---

AERO TECH TOW HITCH ASSEMBLIES

1 3/4" TOW HITCH ASSEMBLY - (SINGLE HITCH)

Tow Hitch Assembly - Single for Piper. Fits tail wheel leaf Springs 1.75" wide.
P/N 13-23399 ..... ---

1 3/4" TOW HITCH ASSEMBLY - (3 HITCH)

Tow Hitch Assembly - (3 Hitch) for Piper. Fits tail wheel leaf Springs 1.75" wide.
P/N 13-23400 ..... ---

1 1/2" TOW HITCH ASSEMBLY - (3 HITCH)

Tow Hitch Assembly - (3 Hitch) for Piper. Fits tail wheel leaf Springs 1.5" wide.
P/N 13-23403 ..... ---

1 1/2" TOW HITCH ASSEMBLY - (SINGLE HITCH)

Tow Hitch Assembly - Single for Piper. Fits tail wheel leaf Springs 1.5" wide.
P/N 13-23402 ..... ---

1 1/2" TOW HITCH ASSEMBLY - (5 HITCH)

Tow Hitch Assembly - (5 Hitch) for Piper. Fits tail wheel leaf Springs 1.5" wide.
P/N 13-23404 ..... ---

1 3/4" TOW HITCH ASSEMBLY - (5 HITCH)

Tow Hitch Assembly - (5 Hitch) for Piper. Fits tail wheel leaf Springs 1.75" wide.
P/N 13-23401 ..... ---

PS

AIRCRAFT TUGS

TOWFLEXX 2-SERIES LIGHT AIRCRAFT TUG

The TowFLEXX® 2-Series light aircraft tug is designed to make your pre-and post flight experience much more enjoyable, easier, quicker and safer. Say goodbye to sweating, pulling, pushing and using your own brawn to move the aircraft — you now have a smart solution that makes moving your plane simple and efficient. Revolutionary design, providing many advantages,... and saves your back.
Small, versatile, powerful, and reliable. Applicable for most light single engine and twin-engine aircraft up to 8,800 lbs (2t) MOTW.
The TowFLEXX® towbarless electric hand-guided aircraft tug, is a unique, patented, versatile, adjustable and simple to use light airplane tow system that saves valuable time and allows aircraft owners, pilots, ground crews and hangar operators to maneuver airplanes in and out of hangars with ease.
Features: • Ergonomic Height Adjustment • Comfortable Lever for easy Coupling and De-Coupling • Easy and simple Steering • Forward and Reverse • Adjustable Speed Control • Smooth Acceleration • Universal Adapter for a wide Range of Aircraft • High Capacity Battery Pack with long Service Life • Extended Charging Cycle Time • Maintenance Free • Environmentally friendly • No Exhaust • No Noise - Silent • Easy to operate • Weatherproof
Benefits:
Universal & Adaptable
• Every TowFLEXX® 2-Series is supplied with the universal main u-fork coupling adapter, incl. a set of sliding standard adapters for easy aircraft docking. • Easy adaptable with quick lock pins. No tools required. The system provides a wide variety of different adjustment options.
Adjustable
• The main u-fork coupling adapter can be height adjusted to fit specific aircraft characteristics. The angle can be changed with ease with quick lock pins. The bracket also includes a provision for a ball-hitch attachment allowing to move trailers.
Flexible & Convenient
• The main u-fork coupling adapter is flexible and connected to the tug frame with a swivel joint that allows the adapter to rotate. A comfortable lever allows the operator to open and to lock the main u-fork coupling adapter. The steering handle is height adjustable for best ergonomics and to fit the operator's physical height and figure.
Easy to Operate & Comfortable
• The standard handle provides a solid grip and the operator is firmly in control. Adjustable speed control with forward and reverse selector switch. Smooth acceleration technology eliminates the twitchy instability found in gas powered aircraft tow clutching systems. The tug is also available with the optional multi-functional three-axis tiller control handle for additional convenience.
Features & Quality Unmatched by Others
• Every TowFLEXX® 2-Series is equipped with LED lighting for easier operation at night time or inside dark hangars. This tug is designed and manufactured like no other. Solid, rugged, powerful and built to last.
Battery & Electronics
• Every TowFLEXX® 2-Series is equipped with a top-quality long-lasting battery set. The rechargeable 24V 33Ah maintenance free lead-gel battery pack is designed for approximately 3 hours operation and 5 days in step (when fully charged) including short-circuit protection. An advanced battery charger is included that is suitable for uninterrupted service and continuous operation with an auto-shutdown function.
• The battery box can be easily removed from the tug to provide access to the electrical compartment and motor.
Powerful
• Powerful high-torque rotary drive 24V 500W DC effective power electric motor resourcefully applied. • Allows noiseless silent maneuvering and movement of single-and small twin-engine aircraft up to max 8,800 lbs (4t) quickly and safely in tight areas. Environmentally friendly - no exhaust.
Easy Handling
• Ergonomic height adjustment mechanism of the control handle, allowing fast adaptation matching the operators height for user comfort.
• Easy and simple steering by hand, via raising and guiding into the steering direction. Operation is a breeze because of the forward and reverse acceleration switch mechanism with adjustable speed control.

P/N 13-18770 ..... ---

TOWFLEXX SM2.2 8800 LB HELI TUG

Small, powerful, and reliable. Especially designed for Robinson Helicopters (R22, R44, and R66).
13-19496: TOWFLEXX Universal Adapter Required information: Aircraft Make, Model & Serial No. Attention: Adapter required / sold separately
Electrical Motor
• Powerful high-torque rotary drive 24V 500W DC effective power electric motor resourcefully applied.
• Allows noiseless silent maneuvering and movement of Robinson helicopter rotary aircraft up to max 8,800 lbs (4t) quickly and safely in tight areas. Environmentally friendly - no exhaust.
Easy Handling
• Ergonomic height adjustment mechanism of the control handle, allowing fast adaptation matching the operators height for user comfort.
• Easy and simple steering by hand, via raising and guiding into the steering direction. Operation is a breeze because of the forward and reverse acceleration rocker switch mechanism with adjustable speed control. • Universal adapter (fit's Robinson Helicopters) for quick tool-free attachment, fast and simple guidance.
Ergonomic Multifunctional Three-Axis Handle
• In basic configuration the tug is equipped with the standard handlebar control.
Removable Battery Box
• The rechargeable 24V 33Ah maintenance free led-gel battery pack is designed for approx. 3 hours part time operation (fully charged) including short-circuit protection. Can be easily removed from the tug and also to be used as ground power supply for the aircraft.
Battery Charger
• Advanced timer circuit battery charger for uninterrupted service and continuous operation incl. auto-shutdown function.

P/N 13-18771 ..... ---

TOWFLEXX ACCESSORIES

2 LIGHT AIRCRAFT ADAPTERS

Diamond DA42 ..... P/N 13-20669 ..... ---
Diamond DA40 ..... P/N 13-20670 ..... ---
Beech Bonanza B33 to B36 ..... P/N 13-20671 ..... ---
Socata TB20 and TB21 ..... P/N 13-20672 ..... ---

TOWFLEXX THREE-AXIS TILLER CONTROL HANDLE Three-Axis Tiller Control Handle
P/N 13-20673 ..... ---

TOWFLEXX HEAVY DUTY ALL TERRAIN TIRES
Heavy Duty All Terrain Tires
P/N 13-20675 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AIRTUG® 6-S GAS POWERED

The AIRTUG Model 6-S model is extremely easy to use because of its' unique "Throttle Grip Control" system utilizing a hydrostatic transmission as the heart of the Airtug, a heavy duty variable speed , 6 horsepower gas engine. They guarantee your safety with their "Return to Brake" feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its' pinpoint handling makes this unit a great choice. All of these features simply make this aircraft tug the best in the industry! **Specifications:** • 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle 16"x 6" - 6 ply on 8" Drive Wheels • Drive wheels capable of handling nosewheel weights up to 2000 lbs. • Welded load platform mounted between the drive wheels for added traction.....P/N 13-07284 ..... ---

AIRTUG® 6-H GAS POWERED

The 6-H aircraft tug model is the tug of choice for those who need to lower the tail to enter a hangar, and might also need to handle nose-wheel fairing aircraft. The nose-wheel is loaded the same as the Model 6-H, and then it can be raised by a hydraulic jack up as much as needed to a maximum of roughly 9", thus lowering the tail by approximately double this amount. Additionally, it is easy to use because of its' unique "Throttle Grip Control" system utilizing a hydrostatic transmission and a 6HP variable speed gasoline engine. They guarantee your safety with their "Return to Brake" feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its' pinpoint handling makes this unit a great choice. **Specifications**: • 2 Ton Hydraulic Jack for Lift Shoe • 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle • 16"x 6" - 6 ply on 8" Drive Wheels • Drive Wheels Capable of Handling Nosewheel Weights up to 2000 lbs. • Low Profile unit for avoiding low aircraft hulls and flight controls with low axle and optional 13" Drive Wheels. .....P/N 13-07285 ..... ---

AIRTUG® 10-S GAS POWERED

Extremely easy to use because of its' unique "Throttle Grip Control" system utilizing a hydrostatic transmission as the heart of the Airtug, a heavy duty variable speed gas engine, with a built in electric starter. They garantee your safety with their "Return to Brake" feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its' pinpoint handling makes this unit a great choice. A light is built in for ease of seeing under the fuselage at night. .....P/N 13-07288 ..... ---

AIRTUG® NFE-6 ELECTRIC AIRCRAFT TUG

This quiet electric model makes moving the aircraft a simple task for a single person by lifting the nose-wheel off the ground! Much easier to hookup and control the aircraft than a single wheel tug that is not able to lift the nose wheel off the ground. Simply attach the small towbar by hand to the aircraft and then winch the tow-bar / nose-wheel onto the raised platform for total control by the tug. The NFE-6 model AirTug® is extremely easy to use because of its' unique "Thumb Throttle" system utilizing an electric transaxle with differential and on board Smart Battery Charger. For your safety, "Return to Brake" feature prevents any unintentional movement of the plane when the thumb throttle is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Its' pinpoint handling allows the operator to pivot as tight as desired as a result of the differential transmission. All of these features simply make this quiet, aircraft tug a good value in the industry!

P/N 13-21612 ..... ---

AIRTUG® 10-H GAS POWERED

The 10-H aircraft tug model is the tug of choice for those who need to lower the tail to enter a hangar, and might also need to handle nose-wheel fairing aircraft. The nose-wheel can be raised by a hydraulic jack up as much as needed to a maximum of roughly 9", thus lowering the tail by approximately double this amount. Additionally, it is easy to use because of its' unique "Throttle Grip Control" system utilizing a hydrostatic transmission, electric starter and a heavy duty variable speed gasoline engine. They guarantee your safety with their "Return to Brake" feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. A light is built in to ease seeing under the fuselage at night.

Features: • Loading System: Hydraulic Lift Shoe with Winch Strap/ Strut Strap • Parts Warranty: 1 Year • Type of Starter: Electric • Engine: Four Stroke 10-HP or greater, electric or recoil start • Tow Weight: Up to 16,000 lbs. • Turning Radius: 360 Degree

Specifications: • 2 Ton Hydraulic Jack for Lift Shoe• 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle • 16"x 6" - 6 ply on 8" Drive Wheels • Drive Wheels Capable of Handling Nosewheel Weights up to 2000 lbs. • Low Profile unit for avoiding low aircraft hulls and flight controls with low axle and optional 13" Drive Wheels.....P/N 13-07289 ..... ---

AIRTUG® EL3-S ELECTRIC POWERED

Same great power and moving capacity as the larger gas powered unit, but in a QUIET electric model! Extremely easy to use because of its' unique "Throttle Grip Control" system utilizing a Hydrostatic Transmission, Heavy Duty Electric Motor, powerful Batteries, and built-in Battery Charger. They guarantee your safety with their "Return to Brake" feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its' pinpoint handling combining twist grip control with a large, handle-mounted Caster makes this walk-behind Airtug a great choice. A light is also built in for ease of of seeing under the fuselage at night.

Features: • Loading System: Winch Strap/Strut Strap with Accessories • Parts Warranty: 1 Year • Engine: Heavy Duty 3HP Permanent Magnet Motor • Tow Weight: Up to 16,000 lbs. • Turning Radius: 360 Degree

Specifications: • 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle • 16"x 6" - 6 ply on 8" Drive Wheels • Drive wheels capable of handling nosewheel weights up to 2000 lbs. • Low Profile unit for lower axle clearances and 13" Drive Tires option.....P/N 13-07286 ..... ---

AIRTUG® EL3-H ELECTRIC POWERED

Same great power and moving capacity as the larger gas powered unit, but in an electric model! The choice for those who need to lower the tail to enter a hangar, and might also need to handle nose-wheel fairing aircraft. The nose-wheel can be raised by a hydraulic jack up to a max. of 9". It is easy to use because of its' unique "Throttle Grip Control" system. They guarantee your safety with their "Return to Brake" feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. A light is also built in for ease of seeing under the fuselage at night.

Features: • Loading System: Hydraulic Lift Shoe with Winch Strap/ Strut Strap • Parts Warranty: 1 Year • Engine: Heavy duty 3HP Permanant Magnet Motor • Tow Weight: Up to 16,000 lbs. • Turning Radius: 360 Degree.

Specifications: 2 Ton Hydraulic Jack for Lift Shoe • 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle • 16"x 6" - 6 ply on 8" Drive Wheels • Drive Wheels Capable of Handling Nosewheel Weights up to 2000 lbs.

P/N 13-07287 ..... ---

AIRTUG NFE-4 ELECTRIC FOR CIRRUS

Moves the CIRRUS Aircraft and other castering nose-wheel aircraft easily and makes moving the aircraft a simple task for a single person!

The BEST TUG for CIRRUS aircraft or any other castering or non-castering nose- fairing aircraft. Simply attach the small towbar by hand to the aircraft and then winch the tow-bar / nose-wheel onto the raised platform for total control by the tug. Much easier to hookup and control the aircraft than a single wheel tug that is not able to lift the nose wheel off the ground. Can move most nose-fairing aircraft including the Diamond and other aircraft weighing less than 4,000 lbs. Easy to Use and Economical with pin point handling allowing the operator to pivot as tight as desired as a result of the transmission Differential. 24 Volt Electric motor so no need to worry about gas going bad.

Twist grip for infinite speed control forward and reverse with no gears to shift and no jerky clutching system. Reduces repair cost from accidents that result from moving aircraft while not having good control and good visibility and knowledgeable help. Assembles in minutes. Powder coated Frame & Handle. Dimensions: 85" long x 36" wide x 42" tall. 1 Year Warranty. 30 Day Money Back Guarantee!. P/N 13-14974 ..... ---

ADDITIONAL ADAPTERS

Description	Part	Price
Airtug NFE-4 Cirrus Adapter	13-14975	---
Airtug NFE-4 Diamond Da20 Adapter	13-14976	---
Airtug NFE-4 Diamond Da40 Adapter	13-14977	---
Airtug NFE Adapter for Non-Cowling Aircraft	13-21625	---

PS

TIE-DOWNS

FLY TIES TIE DOWNS

FlyTies Tie Downs Rated "Top Choice" by Aviation Consumer

FlyTies® unique design allows quick insertion and quick removal using the easy-out extraction tool provided. Rugged, die-cast steel rods are 3/8" x 14" for deeper penetration into harder ground. Cumulative load capacity is 3,600 lbs. Kit includes • 3 ea. aluminum hubs w/ forged steel eyebolt • 9 ea. 3/8" dia. x 14" steel stakes • 1 ea. extractor tool • 1 ea. heavy duty canvas tote bag • 1 ea. set of instructions • 3 ea. polypropelyne ropes and has a lifetime warranty

P/N 13-22751 ..... ---

TIE-DOWN EYE BOLT

For non-structual applications. The 7/16" dia. threaded shaft is 7/8" long. Hole is 5/8" dia. Overall length 2-1/2". Furnished with AN365-720 elastic stop nut and wide-area AN970-7 washer

P/N 13-04303 ..... ---

AIRCRAFT TIE-DOWNS

These Aircraft Tie-Downs offer strong, durable, and easy to use tie downs for any weather condition. These tie downs are rated up to 3,000lbs. and tighten up with one quick pull. A sliding cap protects the buckle from freezing during cold weather and keeps grit out during windy field conditions. Each kit comes with: • Three 9 foot long tie down straps • Choice of tie down strap colors: black, red, or royal blue • A Dupont Cordura carrying bag with choice of colors; black, forest green, red, royal blue or navy. Embroidery is available for an additional $5.Color is Red .....P/N 13-06328 ..... ---

TAIL TIE DOWN GUARD 162TG

Fits Cessna 162 And Other Light Aircraft.

P/N 05-08294 ..... ---

AIRCRAFT TIE-DOWN WITH EMBROIDERY

Aircraft Tie-Down offer strong, durable, and easy to use tie down for any weather condition. Rated up to 3,000lbs. and tighten up with one quick pull. A sliding cap protects the buckle from freezing during cold weather and keeps grit out during windy field conditions. Kit Contains: A Dupont Cordura matching carrying bag. **Specifications**: • Strap Color: Red • Embroidery Color: White.

P/N 13-12672 ..... ---

PS

SHOCKSTRAP™

ShockStraps™ are a unique shock absorbing tie down that incorporates three of the most versatile tie down principals into one superior system. It is quick and easy like a motorcycle tie down, has the reliability of a ratchet system , and versatility of a shock cord. ShockStrap™ stretches acting like a shock absorber and contracts with the load keeping it secure.

7' Black Single Strap .....P/N 13-20707 ..... ---
15' Red Single Strap.....P/N 13-20709 ..... ---
15' Red Double Strap .....P/N 13-20708 ..... ---

16" CORKSCREW TIEDOWN KIT

A versatile, general-purpose spiral anchor made from cold, rolled steel. Design for lightweight applications. Folding ring reduces profile to minimize obstruction in high traffic areas. Bright orange color powder coating resists corrosion and helps provide added visibility. Use to secure small tents, trees, recreational use and patio furniture.

Features: • High pull force performance; 500 pounds per anchor (results may vary dependent on soil types) • Installs in most soils in minutes • Lightweight, individual weight of 1 lb 13 oz. or 5 lbs. 7 oz. per kit • This kit includes: three 16" corkscrew tiedown anchor, one 3/8" nylon tiedown rope, and one tiedown bag - all complete with a manual including installation instructions! .....P/N 13-09652 ..... ---

HOOK-N-PULL TIE DOWNS

Hook-N-Pull Tie downs feature closed end "s" hooks made from high quality steel with heavy plating, and tie down bards are made from high grade aluminum, hardened for strength and ball burnished and anodized. Furnished with 3/8" diameter nylon rope. **Tie-down bar is guaranteed for 10 years under normal use. When making your own length of tie-downs, add at least 30" for rope reversal and knots.**

High wing.....P/N 13-00448 ..... ---
Low wing or tail .....P/N 13-00449 ..... ---

BEECH CARGO LOCKS

The simple, clever, affordable solution to hinged cargo doors that just won't stay open – until now. The magnetic underside grips firmly to your cargo door arm, but pops off with a quick tap. Then it can be stowed for easy access with the built-in hook hole (or just slipped into the seat back pocket).

Beech Bonanza .....P/N 13-24531 ..... ---
Beech Baron/ A36 .....P/N 13-24532 ..... ---

AEROSPOILER KIT, AEROSPOILER EXTENSION KIT

Kit contains 10 cup/receiver assemblies and 8 30"X3" inch blade assemblies. Each kit contains 20' of wing coverage. The AeroSpoiler will reduce the lift producing capability of your aircraft wing by as much as 96% on the area of wing covered by the Spoiler. Extension kits are available for aircraft requiring more than 20' of wing coverage.

Aero Spoiler Kit.....P/N 13-06505 ..... ---
Extension Kit.....P/N 13-06506 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

"THE CLAW" TIE-DOWN SYSTEM

Features: Easy installation...Easy removal. No more struggling with screw-in anchors. The "Claw®" is designed exclusively for aircraft. The "Claw®" system has a 3600 lb. combined capacity. The last tie down you will ever have to buy - Lifetime Warranty, Tremendous holding strength. The harder you pull, the more The "Claw®" grips. Ideal for all aircraft, Works in hard clay, sandy soil or anything in between Large foot print spreads the load over a larger area for maximum holding power, Low profile will not puncture tires, Complete System weighs only 8 lbs (Including Hammer), Light-weight aircraft aluminum with hardened corrosion resistant die cast zinc plated steel spikes 25 ft 3/8" dia. solid braid polyester rope, Anchoring System hammer doubles as removal tool The "Claw®" includes: Bag that is easy to carry and store that contains: 3 Anchors; 9 spikes; 1 hammer; 25-ft rope Wt: 8 lbs.

P/N 13-02448 ..... ---

EZ LOCK TIE DOWNS

EZ-Lock Tie Downs allow for simple, one-person tie-down of aircraft, with no knots to tie. Features weather-, oil- and gas-resistant polypropylene rope for long product life. 72" Fully Extended ... P/N 13-00159 ..... ---

SLIDEDOWN AIRCRAFT TIE DOWN

Made as a "one size fits most aircraft", the SlideDown is easily adjustable to reach most anchor points. Maximum reach on the wings are approximately 100 inches and the maximum reach on the tail is approximately 54 inches. The SlideDown can be shortened to accommodate just about any length. The SlideDown is proudly Made in the USA and available in a variety of colors.

Features: Powder Coated Aircraft Grade Aluminum Slide, 7/16" Kernmantle Braided Rope available in a variety of colors, Vinyl Coated Hooks, and a maximum Reach: Wings 100", Tail 54". Sold in sets of 3.

Color	Part No.	Price	Color	Part No.	Price
Black	13-14808	---	Blue/White	13-14806	---
Red/White	13-14804	---			

AIRFOIL SHAPE TIE-DOWNS FOR ALL VANS AIRCRAFT

Airfoil Shape Tie-Downs for All Vans Aircraft is sold as a paid, using 3/8-16 thread stud and airfoil shape base. If you need to jack up wing, In place of airfoil shape base thread dome hex nut on threaded stud. Now you have awing jack point. Sold with tie-down assembly instructions. The tie-down will fit a variety of aircraft. .....P/N 05-27292 ..... ---

CARAVAN TAIL TIEDOWN HANDLE

Airforms P/N AF2612035-1, Tail tie down handle, rear. Direct replacement for Cessna P/N 2612035-1. Eligible for all S/N aircraft, Cessna models 208 and 208B. FAA PMA Approved.

Specifications: • Precision fit – drop in replacement for the original part • Aircraft interface unchanged • Tail stand interface unchanged – works with your existing tail stand • Comes primed and ready for installation • FAA PMA Approved • All S/N aircraft, Cessna models 208 and 208B.

P/N 05-12267 ..... ---

RANS TIE DOWN SHACKLE

This stainless steel tiedown shackle will fit any 1 inch wide attach point, but is made special for most RANS aircraft that have RANS aluminum lift struts.The shackle is designed to accept chain or rope without marring the struts.

P/N 13-10435 ..... ---

AIRGIZMOS WHEEL CHOCKS

These chocks are unique because they are stackable. Cuts down on the amount of space required to carry them in the plane. Durable plastic sides are lightweight, but are made to take a lot of abuse. There is space on the sides to put your airplane's n-number (you supply the vinyl lettering). The edges of these chocks are made of non-skid material, so they stay where you put them.

P/N 13-04298 ..... ---

NELSON AIRCRAFT TIE-DOWNS

• Three 15" welded (not bent) steel anchors with sharp tips for easy installation • Three 15' nylon ropes • Cordura, Int'l. Orange, 8"x15" case • Wt: 4 lbs ...P/N 13-00663 ..... ---

NYLON TIE-DOWN ROPE

American-made 100% duPont filament fiber nylon rope. Over twice the strength of manila. Highly resistant to sunlight, rot & mildew. Don't be fooled by foreign imitations. By the foot.

3/8" (4000 lb. test)...P/N 13-05400..... ---
1/2" (6250 lb. test)...P/N 13-05500..... ---

GENUINE VELCRO

5819 Genuine Velcro Two 4 1/2" pressure sensitive hook and loop strips.

P/N 13-06404 ..... ---

TRACK CARGO ANCHORS

A series of anchors specially designed for "T" type tracks. FAA-PMA approved to fit most G.A. aircraft seat rails. Quality constructed from solid aluminum alloy anodized per MIL-A-8625 and permanently fitted with a stainless threaded sleeve and welded stainless steel ring with heat treated steel alloy stud.

Aircraft	L	Description	Part No.	Price
Piper	1.5"	T Type Track Cargo Anchor Blue 5501	13-20137	---
Cessna	1.5"	T Type Track Cargo Anchor Purple 5502	13-20139	---
Cessna	2.5"	HD T Type Track Cargo Anchor Black 5502-1	13-20140	---
Beech	1.5"	T Type Track Cargo Anchor Green 5503	13-20141	---

BIG SCREW EZ TIE DOWN

Big-Screw EZ Tie-Down is an innovative tie down system combining a lightweight 18" cast aluminum ground screw, and a custom aviation designed attachment strap. The 18-inch long cast aluminum screw provides stronger ground holding in all soil types. The screw penetrates deeply into compacted soils resulting in superior holding strength. This exclusive design provides two to three times the holding strength of spike type angled-in tie-downs. Large 1¾" Wide screw provides 80 Square inches of Ground Contact Area, 40 times more than a spike. The screw can be positioned either directly below or set out from aircraft attachments. Quick easy installation and removal using a 1" ratchet, 1" socket, or a portable impact wrench (not included).

P/N 13-21308 ..... ---
Big Screw Straps (3 each 9 Ft.).....P/N 13-21309 ..... ---

VECTOR CHOCKS

Hangar rash is the leading cause of ground handling insurance claims. Vector Chocks reduces the chance of hangar rash and will save you a considerable amount of money. Vector Chocks cradle the wheel with their unique ramp design and the energy yellow colored industrial grade safety tape will help guide you from the hangar door to your safe parking place. Installation is a snap with the peel-n-place feature, which sticks to asphalt as well as concrete. Vector Chocks come as a complete kit, each kit containing two Vector Chocks and a roll of industrial grade energy yellow safety tape .....P/N 13-11694 ..... ---

PS

CHOCKS

ASA WHEEL CHOCKS

These tire stops are for keeping aircraft securely parked. A pair of black molded plastic wheel stops are connected with 22" bright yellow and black braided nylon rope that won't rot or retain water. The bottom cleats keep aircraft securely parked. Lightweight; 7-3/4" x 2-1/2" x 4-1/2"; concave design fits any aircraft tire. One pair is needed for each wheel.....P/N 13-05752 ..... ---

MOLDED WHEEL CHOCKS

The "Perfect" lightweight orange urethane aircraft wheel chocks. Oil and chemical resistant and connected by a 22-inch nylon rope. Concave design that fits into tire. Larger sizes available.
Yellow .....P/N 13-11857 ..... ---

HANDY CHOCKS

One pair of 8 oz. lightweight wheel red or yellow chocks with adjustable cords ensure a snug fit for a wide range of aircraft. Easy storage and portability. Note: 1 set per Package
Red .....P/N 13-06405 ..... ---
Yellow .....P/N 13-06406 ..... ---

SAFE T CHOCKS

"Safe T Chock Line" pull rope is a new patented product invented to prevent injuries while chocking wheels on aircraft, GSE, trucks and trailers. The Safe T Chock Line is a high visibility poly braided rope with a vinyl tube sleeve for a handle that will not freeze or cause rope burns. It is also sleeved to slide thru the center hole in the chock blocks. It can easily be modified to fit almost any type of chock block. This type of chock block pull rope is designed to reduce wrist, hand and finger injuries as well as making it safer to chock and un-chock aircraft and vehicles.

Description	Part Number	Price
Safe T Chock Line 12" Set	05-12011	---
Safe T Chock Line 24" Set	05-12012	---
Safe T Chock Line 36" Set	05-12013	---
Safe T Chock Line 48" Set	05-12014	---

CUSTOM WHEEL CHOCKS FOR LARGE JETS

These custom wheel chocks are lightweight aluminum for large corporate jets. These wheel chocks are carefully fabricated, engraved and then covered with durable powder coating available in grey, black, or orange. In addition to being stylish, these wheel chocks are very durable, long lasting and won't corrode. These are offered as a single pair for nosewheel or as two pair (one for each main wheel). Designed for single main wheel aircraft and are 12" long and made of .25" thick aircraft grade aluminum.

Description	Part Number	Price
Bare Aluminum - 1 Set	13-16051	---
Bare Aluminum - 2 Sets	13-16052	---
Powdercoat Black - 1 Set	13-16053	---
Powdercoat Black - 2 Sets	13-16054	---
Powdercoat Orange - 1 Set	13-16055	---
Powdercoat Orange - 2 Sets	13-16056	---
Powdercoat Grey - 1 Set	13-16057	---
Powdercoat Grey - 2 Sets	13-16058	---

RUBBER WHEEL CHOCKS

These ribbed rubber wheel chocks measure 4"x4"x8" and have reflective tape on all three sides. Connected with nylon rope. Very popular with corporate operations & FBOs.....P/N 13-01767 .....

LIGHTWEIGHT ROPE CHOCKS

Rope Chocks' patent-pending design prevents vehicles, trailers, aircraft, equipment or anything with small to medium-sized tires/wheels from moving or rolling due to environmental conditions, uneven surfaces or bumps. Ideal for business, commercial, cargo and military aircraft.
Features: • Designed for small-to-medium-sized aircraft • Lightweight, each Rope Chock weighs 1.5 lbs. • Easy storage and handling • Safe and non-marking construction. Won't damage aircraft interiors or exteriors like block-style chocks • No rattling around while on ground or in the air
Set of Two with Mesh Bag.....P/N 13-23973 ..... ---
Single Chock .....P/N 13-23972 ..... ---

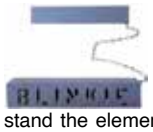
TRAVEL CHOCKS

Very light weight wheel chock designed for airplanes and other vehicles. Compact and easily stored. Powder coated in durable red, blue, or yellow finish. Available in 3 sizes.Chock set is for one wheel only. **Small -** 1 1/2" angle x 6" long x 1/8" Thick Heat Treated Alum. **Medium -** 2" x 2" x 8" 1/8 Thick Angle Heat Treated Alum. **Large -** 3 1/2" x 3 1/2" x 8" Heat Treated 3/16" Thick Alum.

Description	Part No.	Price
Sm. Bare Alum.	13-01120-A	---
Sm. Blue	13-01120-B	---
Sm. Red	13-01120-R	---
Sm. Yellow	13-01120-Y	---
Med. Bare Alum.	13-01130-A	---
Med. Blue	13-01130-B	---

Description	Part No.	Price
Med. Red	13-01130-R	---
Med. Yellow	13-01130-Y	---
Lg. Bare Alum.	13-01140-A	---
Lg. Red	13-01140-R	---
Lg. Yellow	13-01140-Y	---

LIGHTWEIGHT CUSTOM ALUMINUM WHEEL CHOCKS



Extremely lightweight compared to chocks made out of steel. Very Durable Powdercoat finish that will withstand the elements. Extremely corrosion resistant. The chocks include a front and rear chock, connected with a lightweight cable. Small Wheel Chocks- 1.5" angle and 8" wide. Available in Black Powdercoat, Orange Powdercoat, and Grey Powdercoat....Weight is only 9oz per pair, or 18oz for complete set of two pair. These wheel chocks are designed for aircraft up to approximately 3,000 lbs. They are low profile and will fit under the wheel pants of aircraft such as RVs. Large Wheel Chocks - 2.5" angle and 10" wide. Available in Black Powdercoat, Orange Powdercoat, and Grey Powdercoat- 24oz per pair, 48 oz for two pairs.

Description	Part No.	Price
1.5 inch Bare Aluminum - 1 Set	13-13118	---
1.5 inch Bare Aluminum - 2 Sets	13-13120	---
1.5 inch Powdercoated - 1 Set	13-13119	---
1.5 inch Powdercoated - 2 Sets	13-13089	---
2.5 inch Bare Aluminum - 1 Set	13-13121	---
2.5 inch Bare Aluminum - 2 Sets	13-13123	---
2.5 inch Powdercoated - 1 Set	13-13122	---
2.5 inch Powdercoated - 2 Sets	13-13124	---

Specify color for Powdercoated Chocks.

PROCHOCKS

13-24591

Prochock Wheel Chocks are Made in the USA with high quality materials and a unique design helps stabilize the chock from rolling over and being push around by the aircraft or on windy days.
Prochock uses a very dense rubber material that creates high friction on the surface and uses a reflective line material to hold the chocks together and are low-profile that were initially designed for Cirrus wheel pants.
Features: • Low Profile - 1-7/8" (H) - Great for Wheel Pants • Reflective rope - 3/8" - for nighttime visibility • Light weight - approximately 1.8 lbs • Overall length - approximately 40" • Made in the USA. • Assembled in New Hampshire

Description	Part No.	Price
Basic Wheel Chock Blue	13-24589	---
Basic Wheel Chock Yellow	13-24590	---
Personalized Standard Chock Blue	13-24591	---
Personalized Standard Chock Yellow	13-24592	---

PROCHOCK MINI ULTRA LOW PROFILE WHEEL CHOCKS

Made from the same high-quality material as our standard size wheel chocks. We now have wheel chocks to support the RV community or anyone with very low clearance from wheel fairing/pant to the ground. At only 1 inch in height, this small light weight wheel chock has great grip to the surface due to our rubber composition we use for our chocks!
Prochock Wheel Chocks are Made in the USA with high quality materials and a unique design helps stabilize the chock from rolling over and being push around by the aircraft or on windy days.

Description	Part Number	Price
Blue Standard	13-24655	---
Yellow Standard	13-24656	---
Blue Personalized	13-24657	---
Yellow Personalized	13-24658	---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

WINDSOCKS

SCOTT'S WINDSOCKS

Scott's windsocks are manufactured of long-life polyester fabric that is treated to resist the effects of wind and weather. All seams are double stitched with polyester thread for strength. The windsock throat is reinforced and has solid brass grommets for easy attachment and corrosion resistance. Nylon ties are included with each windsock to attach it to the frame. Windsocks are available in high visibility orange, white or alternate orange and white stripes. Fully extended at 20 MPH or 15 Knots

BRIGHT ORANGE			
Throat Dia.	**Length**	**Part No.**	**Price**
8"	30 inches	13-04147	---
10"	36 inches	13-02026	---
13"	55 inches	13-04145	---
18"	5 feet	13-20200	---
18"	8 feet	13-20202	---
24"	8 feet	13-20204	---
28"	7 feet	13-20205	---
36"	10 feet	13-20206	---
INTENSE WHITE			
Throat Dia.	**Length**	**Part No.**	**Price**
18"	5 feet	13-20210	---
18"	8 feet	13-20212	---
24"	8 feet	13-20214	---
WHITE/ORANGE STRIPE			
Throat Dia.	**Length**	**Part No.**	**Price**
18"	5 feet	13-20220	---
18"	8 feet	13-20222	---
24"	8 feet	13-20224	---
28"	7 feet	13-20225	---
36"	10 feet	13-20226	---
36"	12 feet	13-20228	---

SCOTTS WINDSOCKS DOUBLE BALL BEARING FRAMES

Engineered for strength and reliability. Scotts Windsocks Frames are built to withstand the toughest conditions. Featuring a premium welded steel double ball bearing construction. these frames ensure smooth, consistent rotation even in variable winds. Designed with durability in mind, they're crafted from high quality materials that resist wear & tear, providing unmatched performance for aviation, industrial and recreational applications. Frames are powder coated in black & ready to be mounted on a 3/4″ female pipe thread. BUILT TO LAST. DESIGNED TO PERFORM. TRUSTED BY PROFESSIONALS.

Part No.	Length	Price Each
13-25939	10 inch	---
13-25940	13 inch	---
13-25941	18 inch	---
13-25942	18 inch extension	---
13-25943	24 inch	---
13-25944	28 inch	---

NYLON WINDSOCKS

These socks are windtunnel tested and designed for conditions in which safety and wind direction are of greatest importance. They are constructed of nylon oxford cloth for strength and flyability and dyed a bright orange for higher visibility. The throat and tail bands are stitched with multiple rows of tough synthetic thread. The throat band is finished with #1 brass grommets and nylon ties are included. Unlike canvas or vinyl, these Socks fly in the slightest breeze.

Part No.	Throat Diameter	Length	Price Each
13-20040	10"	36"	---
13-20045	18"	48"	---
13-20060	36"	144"	---
13-20050	18"	60"	---

MINIATURE 15" WIND SOCK

For home, office, hangar or workshop. The 15" long wind cone of Flame-Orange sailcloth material swivels on 23" high steel shaft. Wind directionals are cast aluminum with flat black finish. Furnished with mounting hardware and instructions.
Replacement Sock .....P/N 13-03748 ..... ---

LONG LIFE WINDSOCKS

All Long Life Windsocks are made of heavyweight cross-woven Aviation blend material having special Rip-Stop characteristics, flexible, chemically resistant treated, Polyurethane Coated for bonding strength and water repellancy, Ultra-violet dyed, with Nylon Web support and brass grommets. Color: Colorfast International Orange. Estimated 50% longer life and color retention. Aviation sized windsocks. FAA approved sizes per FAA Advisory Circular #AC 150/5345-27C dated 07/85. Estimated wind speeds: Fully extended shape for all sizes listed below, (wind tunnel tested) to be special cut Specification of 15 knots = 16.5 mph. 18" - 28" diameter windsocks 96" in length. 36" diameter 144" in length.

Size (in)	Part No.	Price
6 x 18	13-04306	---
9 x 30	13-04307	---
10 x 36	13-04308	---
12 x 48	13-04309	---

Size (in)	Part No.	Price
13 x 48	13-04314	---
15 x 55	13-04315	---
18 x 60	13-04321	---
20 x 60	13-04323	---

STANDARD WINDSOCK FRAMES

These windsock frames are perfect for both our "long life" and "extra long-life" series windsocks.
The "Long Life" windsock is made of 100% nylon and is very durable. Even in tough weather conditions, this windsock can hold its own. Order windsocks Separately.
The "Extra Long Life" windsock is a heavy-duty cross-woven Aviation blend Poly. Nylon material with special Rip-Stop characteristics, Medium-weight for more flexibility, chemically resistant treated, and Polyurethane coated for bonding strength and water repellency. Ultra-violet dyed for best retention. Nylon support webbing on intake opening with brass grommets. Colorfast International Bright Orange in color. "Extra Long Life" windsocks have an estimate 50% longer life and color retention.

Size (in)	Part No.	Price
12 x 48	13-04318	---
13 x 48	13-04319	---
15 x 55	13-04320	---

Size (in)	Part No.	Price
18 x 60	13-04326	---
20 x 60	13-04327	---
24 x 96	13-04328	---

EXTRA LONG LIFE WINDSOCKS

"Extra Long Life" is a heavy-duty cross-woven Aviation blend Poly./Nylon material with special Rip-Stop characteristics, Medium-weight for more flexibility, chemically resistant treated, and Polyurethane coated for bonding strength and water repellency. Ultra-violet dyed for best retention. Nylon support webbing on intake opening with brass grommets. Colorfast International Bright Orange in color. "Extra Long Life" windsocks have an estimate 50% longer life and color retention.

Size (in)	Part No.	Price
6 X 18	13-20110	---
9 X 30	13-20111	---
10 X 36	13-20112	---
13 X 48	13-20113	---
18 X 60	13-20114	---
20 X 60	13-20115	---
12 X 48	13-04316	---

Size (in)	Part No.	Price
15 X 55	13-04317	---
20 X 96	13-02039	---
18 X 96	13-02038	---
24 X 96	13-02040	---
28 X 96	13-02041	---
36 X 144	13-02042	---

INTERNATIONAL EUROSOCK™

Multi-panel sock of bright red/orange and white provides very distinctive visibility, both from air and ground. Fits the standard frames (sold separately).
18" Eurosock x 71"Length .....P/N 05-05235 ..... ---

PS

WINDSOCKS

AIRPORT WINDSOCKS

What makes these aviation windsocks different?

Two major things make a windsock, its material and its construction. Starting off with a premium nylon fabric that is made right here in the USA to exact standards. Nylon offers unparalleled windsock durability to the elements and will not become rigid in cold weather, keeping these windsocks extremely responsive in even the slightest of wind. From there it gets urethane coated and UV protected, giving the windsock superior fade resistance and color retention. The material is subjected to a variety of tests by an independent lab to verify its structural integrity and UV resistance. This superior material is then cut and sewn. Our reinforced double stitched hems and heavy duty brass grommets, assures these windsocks long life reliability.

The added expense of a superior material and manufacturing process meets the needs of even the most demanding windsock customers. Such as: US Military, US Coast Guard, US Embassies, State Airports, Offshore Oil Rigs, Nuclear Power Plants, Medical Heliports, Government Bio Hazard Units.

ORANGE WINDSOCKS

Description	Size	Part No.	Price
Orange Windsock	4" x 15"	13-06386	---
Orange Windsock	6" x 24"	13-06387	---
Orange Windsock	8" x 36"	13-06388	---
Orange Windsock	10" x 36"	13-06389	---
Orange Windsock	13" x 54"	13-06465	---
Orange Windsock	18" x 48"	13-22400	---
Orange Windsock	18" x 60"	13-06466	---
Orange Windsock	18" x 72"	13-06467	---
Orange Windsock	18" x 96"	13-06468	---
Orange Windsock	20" x 96"	13-06469	---
Orange Windsock	24" x 96"	13-06470	---
Orange Windsock	36" x 144"	13-06471	---

ORANGE AND WHITE WINDSOCKS

Description	Size	Part Number	Price
Orange & White Windsock	4" x 15"	13-06472	---
Orange & White Windsock	8" x 36"	13-06473	---
Orange & White Windsock	10" x 36"	13-06474	---
Orange & White Windsock	13" x 54"	13-06475	---
Orange & White Windsock	18" x 60"	13-06476	---
Orange & White Windsock	18" x 72"	13-06477	---
Orange & White Windsock	18" x 96"	13-06478	---
Orange & White Windsock	24" x 96"	13-06479	---

BALL BEARING FRAMES

The ball bearing windsock frames are a rugged design constructed of a welded steel construction and then a powder coated finish for corrosion protection. They incorporate a two bearing pivoting design for effortless pivoting. These frames are ready to be mounted on a ¾" female pipe thread for the 8", 13", 18" and 24" and a 1" pipe thread for the 36".

Description	Size	Part No.	Price
Ball Bearing Frames	8"	13-06481	---
Ball Bearing Frames	13"	13-06482	---
Ball Bearing Frames	18"	13-06483	---
Ball Bearing Frames	24"	13-06484	---
Ball Bearing Frames	36" Non Collapsible	13-06485	---

EXTENDED BALL BEARING FRAMES

These windsock ball bearing extended frames are a rugged design constructed of a welded steel construction and then a powder coated finish for corrosion protection. They incorporate the same high quality construction as our standard ball bearing frames with the added performance of an extened frame. They incorporate a two bearing pivoting design for effortless pivoting. These frames are ready to be mounted on a ¾" female pipe thread for the 13"and 18" frames. Use 1" female pipe thread for mounting the 24" and 36" frames.

Description	Size	Part No.	Price
Extended Ball Bearing Frames	13"	13-06487	---
Extended Ball Bearing Frames	18"	13-06488	---
Extended Ball Bearing Frames	24"	13-06489	---

VERTICAL SOCK KITS

These complete kits include our standard frame, windsock, windsock ties, pole, and brackets. They are a stand alone unit for mounting on a flat vertical surface or they can be installed right onto an existing 3/4" pipe thread pole.

Description	Size	Part No.	Price
Vertical Mount Windsock Kit	8" x 36"	13-06491	---
Vertical Mount Windsock Kit	13 " x 54"	13-06494	---
Vertical Mount Windsock Kit	18" x 60"	13-06495	---
Vertical Mount Windsock Kit	18" x 96"	13-06496	---

TRIPOD MOUNT WINDSOCK KIT

These complete kits include our standard frame, windsock, windsock ties, pole, and tripod. They are a stand alone unit for mounting on a flat horizontal or peaked roof surface or they can be installed right onto an existing 3/4" pipe thread pole.

Description	Size	Part No.	Price
Tripod Mount Windsock Kit	8" x 36"	13-06497	---
Tripod Mount Windsock Kit	13" x 54"	13-06498	---
Tripod Mount Windsock Kit	18 x 60"	13-06499	---
Tripod Mount Windsock Kit	18" x 96"	13-06501	---

PORTABLE WINDSOCK KIT

This rugged, stand alone unit comes complete with the pole, frame, windsock and windsock ties. This free standing system measures over 7' tall in its assembled configuration. • It features an extremely rugged design that incorporates a pole with a foot lug and handle for easy installation and removal. The two part pole disassembles for easy transportation. • The frame conveniently screws onto the top of the pole. Its aluminum hoop and bail pivot on a stainless steel shaft for years of reliable and responsive action. These high quality socks are constructed from U.S. made nylon fabric that is urethane coated and UV protected.

Description	Size	Part No.	Price
Portable Windsock Kit	6 " x 24"	13-06502	---
Portable Windsock Kit	8 " x 36"	13-06503	---
Portable Windsock Kit	13" x 54"	13-06504	---

AVIATION UNLIGHTED WINDSOCK FRAMES

Non-lighted, heavy duty ball-bearing frame, with 1-75 to 300W lamp, extended to 30" double hoop frame-works. (3/8" round metal frameworks) FAA approved sizes per FAA Advisory Circular #AC150/5345-27C dated 07/19/85. Furnished complete with windsocks.

Description	Part No.	Price
13" w/ Windsock	13-04330	---
18" w/ Windsock	13-04331	---
20" w/ Windsock	13-04332	---
24" w/ Windsock	13-04333	---
36" w/ Windsock	13-04334	---
Windsock Stationary Base	13-04335	---
Windsock Hinged Base	13-04336	---
Windsock Heavy Duty Pole Fits standard frames.	13-04337	---
Windsock Galvanized Pole	13-04338	---

AVIATION LIGHTED WINDSOCK FRAMES

Internally lighted, heavy duty ball-bearing frame, with 1-75 to 300W lamp, extended to 30" double hoop frame-works. (3/8" round metal frameworks) FAA approved sizes per FAA Advisory Circular #AC150/5345-27C dated 07/19/85. Furnished complete with windsocks.

18" dia ..... P/N 13-02043 ..... ---
20" dia ..... P/N 13-05729 ..... ---
24" dia ..... P/N 13-05730 ..... ---
36" dia ..... P/N 13-05731 ..... ---

WINDSOCK FRAMES

Totally enclosed housing prevents heavy duty ball-bearing from lock-ups, corrosion, and excessive pre-mature wear. Bearings are grease packed, metal shielded. Self contained unit easily attaches with 3/4" standard threaded pipe.

6" dia. ..... P/N 13-20120 ..... ---
9" dia. ..... P/N 13-20121 ..... ---
10" dia. ..... P/N 13-20122 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

WINDSOCKS

WINDCONES

Windcones come in 3 different materials, Vinyl, Nylon or Cotton Duck. The standard color for all windcones is International Orange. Windcone Material: Vinyl - This material is heavy duty and works well in coastal environments. We use vinyl coated polyester that does not delaminate as laminated vinyls can. This material is oxidation resistant. Windcones 12" and smaller are made of 7 oz. vinyl. All other windcones are made of 9 oz. vinyl. Nylon - This is a light weight (6 oz.), easily inflatable material that is UV coated. Cotton Duck - A heavy duty (9 oz.) cotton army duck which is water repellent and mildew resistant.

Throat Dia (TD)	End Dia (ED)	Length	Material	Part No.	Price
6"	3"	24"	Cotton	13-17649	---
8"	4"	42"	Cotton	13-17652	---
10"	5"	42"	Cotton	13-17655	---
12"	6"	48"	Cotton	13-17658	---
13"	6.5"	48"	Cotton	13-17661	---
15"	7.5"	48"	Cotton	13-17664	---
18"	9"	48"	Cotton	13-17667	---
18"	9"	60"	Cotton	13-17670	---
18"	9"	96"	Cotton	13-17673	---
20"	10"	96"	Cotton	13-17676	---
22"	11"	96"	Cotton	13-17679	---
24"	12"	96"	Cotton	13-17682	---
28"	14"	96"	Cotton	13-17685	---
36"	18"	144"	Cotton	13-17688	---
6"	3"	24"	Nylon	13-17648	---
8"	4"	42"	Nylon	13-17651	---
10"	5"	42"	Nylon	13-17654	---
12"	6"	48"	Nylon	13-17657	---
13"	6.5"	48"	Nylon	13-17660	---
15"	9"	48"	Nylon	13-17663	---
18"	9"	48"	Nylon	13-17666	---
18"	9"	60"	Nylon	13-17669	---
18"	9"	96"	Nylon	13-17672	---
20"	10"	96"	Nylon	13-17675	---
22"	11"	96"	Nylon	13-17678	---
24"	12"	96"	Nylon	13-17681	---
28"	14"	96"	Nylon	13-17684	---
36"	18"	144"	Nylon	13-17687	---
6"	3"	24"	Vinyl	13-17647	---
8"	4"	42"	Vinyl	13-17650	---
10"	5"	42"	Vinyl	13-17653	---
12"	6"	48"	Vinyl	13-17656	---
13"	6.5"	48"	Vinyl	13-17659	---
15"	9"	48"	Vinyl	13-17662	---
18"	9"	48"	Vinyl	13-17665	---
18"	9"	60"	Vinyl	13-17668	---
18"	9"	96"	Vinyl	13-17671	---
20"	10"	96"	Vinyl	13-17674	---
22"	11"	96"	Vinyl	13-17677	---
24"	12"	96"	Vinyl	13-17680	---
28"	14"	96"	Vinyl	13-17683	---
36"	18"	144"	Vinyl	13-17686	---

WINDCONE WINDSOCK FRAMES

Small Frames (12" and smaller) - Lightweight frames made of galvanized steel wire. Large Frames (18" and larger) - These are heavy duty frames designed to withstand storm force winds and harsh environmental conditions. Large frames are made of galvanized steel (WCF18) or a combination of steel and cast aluminum (WCF20, WCF22, WCF24).

Manufacter No.	Hoop Dia.	Mounting Collar ID	Max Pipe OD	Part No.	Price
WCF6	6"	1"	7/8"	13-17689	---
WCF8	8"	1"	7/8"	13-17690	---
WCF10	10"	1"	7/8"	13-17691	---
WCF12	12"	1"	7/8"	13-17692	---
WCF18	18"	1 5/8"	1 1/2"	13-17693	---

STANDARD WINDSOCKS

These windsocks are fabricated with doubly sewn seams and brass grommets for attachment. Bright red/orange nylon provides good long distance visibility.

Description	Part No.	Price
8" x 30"L Sock	05-05222	---
13"x 55"L Sock	05-05223	---
18" x 71"L Sock	05-05224	---
24"x 120"L Sock	05-05225	---
36"x 120"L Sock	05-05226	---

STANDARD FRAMES

Internally supports the windsock for more accuracy. Frames are finished using a powder coated weather guard finish. Smooth free swiveling movement with low maintenance. Mounts on standard pipe.

Description	Part No.	Price
8" Frame requires 3/8" pipe mount	05-05227	---
24" Frame requires 3/4" pipe mount	05-05230	---

ORANGE AND WHITE WINDSOCK AND FRAME KIT

These complete USA made windsock kits include our aviation quality orange and white windsock, standard aluminum frame, heavy duty windsock ties, 30" long galvanized pole with 3/4" pipe thread, and mounting brackets. They are a stand alone unit for mounting on a flat vertical surface.

Description	Part No.	Price
8x36 Inches	13-24017	---
10x36 Inches	13-24018	---
13x54 Inches	13-24019	---
18x60 Inches	13-24020	---
18x96 Inches	13-24021	---

WINDSOCK 18" X 48" FRAME AND SOCK KIT

These complete USA made windsock kits include our aviation quality orange windsock, standard aluminum frame, heavy duty windsock ties, 30" long galvanized pole with 3/4" pipe thread, and mounting brackets. They are a stand alone unit for mounting on a flat vertical surface. Windsock size 18" diameter by 48" long ..... P/N 13-24023 ..... ---

WINDSOCK 10" X 36" TRIPOD MOUNT KIT

These complete USA made kits include our standard frame, windsock, windsock ties, pole, and tripod. They are a stand alone unit for mounting on a flat horizontal or peaked roof surface or they can be installed right onto an existing 3/4" pipe thread pole. Windsock size 10" diameter by 36" long There is an additional oversize package shipping charge if you choose postal shipping rather than UPS shipping.
* Windsock shown is 13"x54" .....P/N 13-24024 ..... ---

PS

MONTAGUE FOLDING BICYCLES

MONTAGUE CROSSTOWN BIKE

Color: Ghost White/Black. Frame: Custom drawn 7005 Series, Aluminum tubing with FIT System. Fork: Rigid Unicrown, with CLIX™ Rims: Alex. Alloy, 36 hole, Silver. 700c. Tires: Kenda Kwick. Spokes: 14 Gage Saddle: Performance comfort with Internal Springs and "Center Gap". Seatpost: 27.2 X 300mm Alloy. Handlebars: Riser style 30mm rise. 600mm wide. Alloy, Black. Stem: Octagon™ height adjustable stem. No tools required. Crankset: Single chainwheel. Alloy 170mm crank arm. Speeds: 7 Pedals: Trekking pedal with all-weather non-slip tread Folded Size: 36" x 28" x 12" Approx Weight: 27lbs

17 in Frame: 4'8" - 5'2" 700C.....P/N 13-07241 ..... ---
19 in Frame: 5'3" - 5'10" 700C.....P/N 13-07242 ..... ---
21 in Frame: 5'11" - 6'4" 700 C.....P/N 13-07243 ..... ---

MONTAGUE PARATROOPER PRO

Color Matte Black. Frame Custom drawn 7005 Series Aluminum with FIT System. Alloy one piece lower. Disc Compatible. Rims Alloy, 32 hole. Double Wall. Black Tires CST Critter. Knobby. 26 x 1.95". Hubset Formula Disc. Black, Alloy. Sealed front & rear with CLIX™ front quick release. Spokes 14 Gauge Stainless. Shifters Shimano RAPIDFIRE Plus Trigger Shifters. 27 Speeds. Brakeset Tektro Novela. Front & rear mechanical disc w/ pad adjustment. Alloy Levers. Pedals Platform pedal with steel cage. Bottom Bracket Sealed Cartridge. Frame Sizes 18", 20". Stand over heights 30", 31". Folded Size 36" x 28" x 12". Approx Weight 29lbs.

18 in Frame: 5'3" - 5'10" .....P/N 13-12970 ..... ---
20 in Frame: 5'11" - 6'4" .....P/N 13-12971 ..... ---

MONTAGUE BOSTON BIKE

Color: Matte Black Frame: Custom drawn 7005 Series. Aluminum tubing with horizontal dropouts and FIT System. Fork: Full Cro-Mo, with CLIX™ Rims: Alex. Alloy, 36 hole, Black. 700c. Tires: Kenda Kwick Roller Sport 700c x 28mm slick. Rear. Spokes: 14 Gage Handlebars: Riser style 30mm rise. 530mm wide. Crankset: SR Suntour. Alloy 42T chainwheel withIntegrated chain guard. Alloy 170mm crank arm. Speeds: Single Speed Pedals: Platform trekking pedal. Aluminum Cage. Folded Size: 36" x 28" x 12" Approx Weight: 24lbs

19 in Frame: 5'3" - 5'10" 700C.....P/N 13-07244 ..... ---
21 in Frame: 5'11" - 6'4" 700C.....P/N 13-07245 ..... ---

MONTAGUE FIT BIKE

Hunter: Green/Black Frame: Custom drawn 7005 Series Aluminum with FIT System. Fork: Full Cro-Mo, with CLIX™ Rims: XERO 700c. 28c hole rear, 24 hole front. Silver. Tires: Kenda Kwick Roller Sport 700c x 26mm slick. Spokes: 14 Gage Saddle: Double Density Performance, with "Center Gap" Comfort Technology. Handlebars: Kalloy. Alloy, double butted. 25mm rise, 8 degree backsweep. Stem: Octagon™ height adjustable stem. No tools required. Shifters Shimano trigger shifters. Speeds: 27 Speeds Pedals: Aluminum trekking pedal. Cro-Mo Spindle. Silver Aluminum Body. Folded Size: 36" x 28" x 12" Approx Weight: 26.5lbs

19 in Frame .....P/N 13-07248 ..... ---
21 in Frame .....P/N 13-07249 ..... ---

MONTAGUE PARATROOPER HIGHLINE MOUNTAIN BIKE

The Paratrooper Highline Mountain Bike is a true cross country machine. 27.5 inch wheels provide superior rolling ability over obstacles and rough terrain. A Rockshox fork and hydraulic disc brakes satisfy the true XC rider looking for convenience. Like all Montagues, the Highline is designed to fit on the bus or train, and easily in your airplane, car trunk or boat. The Paratrooper Highline is a rugged 27.5" wheel folding mountain bike with a 2×10 drivetrain. With fat tires and a wide range cassette, the Highline is built for after-work rides on your favorite trails and full-on weekend excursions in the mountains.

18 in Frame .....P/N 13-19002 ..... ---
20 in Frame .....P/N 13-19003 ..... ---

MONTAGUE PARATROOPER™

The Paratrooper is one of the many folding mountain bikes that Montague offers. Its patented folding design was developed to allow airborne soldiers to drop out of airplanes and helicopters and into combat. The Paratrooper offers advanced features with 24 speeds and front and rear mechanical disc brakes. Known for its durability and load bearing capabilities, this folding bike has also developed a following with everyday commuters and weekend warriors. The Folding Integrated Technology (F.I.T.) is based around frame construction concepts designed for serious full suspension downhill bikes.

18 in Frame .....P/N 13-01068 ..... ---
20 in Frame .....P/N 13-01069 ..... ---

MONTAGUE NAVIGATOR BIKE

Color: Midnight Blue/Black Frame: Custom drawn 7005 Series Aluminum with FIT System. Fork: Full Cro-Mo, with CLIX™ Rims: Alex. Alloy, 32 hole, Silver. Tires: Kenda Kwick Roller Sport 700c x 26mm semi-slick. Spokes: 14 Gage Handlebars: Alloy, 30mm rise. Stem: Octagon™ height adjustable stem. No tools required. Shifters: Shimano Rapid Fire Road for Flat Handlebar. 3-Speed Left. 9-Speed Right Crankset: SR Suntour. 48/38/28. Alloy 170mm crank arm. Black. Speeds: 27 Speeds Folded Size: 36" x 28" x 12" Weight: 27lbs

19 inch Frame.....P/N 13-07246 ..... ---
21 inch Frame.....P/N 13-07247 ..... ---

MONTAGUE PARATROOPER EXPRESS BIKE

Like all Montagues, the Paratrooper Express is designed to fold and fit anywhere. With front suspension and semi-knobby tires, the Express is at home on and off-road. It makes for the perfect light trail bike or rugged commuter. With Shimano derailleurs, Suntour suspension, and Tektro brakes, the Paratrooper Express offers components from the industry's top manufacturers, carrying on the Swissbike® tradition of performance and portability.

16 in Frame .....P/N 13-21864 ..... ---
18 in Frame .....P/N 13-21865 ..... ---
20 in Frame .....P/N 13-21866 ..... ---

MONTAGUE ALLSTON BIKE

The Allston is a folding bike that combines standard 700c wheels with a Gates carbon belt drive and Shimano Alfine 11 internal gear hub. Grease-less and virtually maintenance free, it's perfect for urban riding and can be stowed until your next ride. Hydraulic disc brakes provide superb stopping power, a RackStand offers cargo carrying capacity, and extra wide 38mm tires make it comfortable on even the roughest roads.

19 in Frame .....P/N 13-21862 ..... ---
21 in Frame .....P/N 13-21863 ..... ---

MONTAGUE URBAN BIKE

The Urban is a folding bike with standard 700c wheels that delivers road performance on a budget. A 21-speed Shimano drivetrain provides ample gearing for hilly roads while wide 35mm tires cushion the ride over rough terrain and potholes. The patented RackStand offers cargo carrying capacity and has a built in fender, acts as a kickstand, and serves as a stand for the folded bike.

17 in Frame .....P/N 13-21859 ..... ---
19 in Frame .....P/N 13-21860 ..... ---
21 in Frame .....P/N 13-21861 ..... ---

MONTAGUE PARATROOPER ELITE BIKE

The Paratrooper Elite is the highest performance folding mountain bike in the world, an aggressive hard tail built for technical single track. Larger 27.5-inch wheels roll over any obstacle while a full Shimano XT drivetrain, Shimano XT hydraulic disc brakes, and Rockshox Reba suspension provide performance never before seen from a folding bike. Built upon the heritage of Montague's Swissmilitary® folding bikes, the Elite takes the mountain line to new heights.

18 inch Frame .....P/N 13-21867 ..... ---
20 inch Frame .....P/N 13-21868 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PARA-CUSHION PARACHUTES

PARA-CUSHION 311 - WEDGE

The Para-Cushion 311 Wedge measures 24" (61cm) tall by 16" (40.5cm) wide by 1" (2.5cm) at the shoulders and 3" (7.5cm) at the lower back, and weighs approximately 16 lbs. (7.3 kg). This unique configuration allows for maximum comfort for the pilot by using the shape of the parachute system to put you in a slightly reclined position. Designed to be used in airplanes where headroom is at a minimum and the backrest is at a straight upright angle with the seat bottom, such as a Pitts S1, Pitts Model 12, Christen Eagle, RV-4, RV-6, Harmon Rocket, and many others. System Comes Complete with: Harness/Container, Mid-Lite Parachute, Ripcord, Lil Grabber Pilot Chute, Carry Bag, and Manual. TSO - C23c cat. B..... **See Our Website for All Versions and Prices.**

PARA-CUSHION 304 - SEAT

The Para-Cushion 304 Seat, measures 12" (30.5 cm) tall by 16" (40.5 cm) wide by 1/2" (1.3 cm) thick throughout the back, and 3" (7.5 cm) thick in the seat cushion, and weighs approximately 18.5 lb. (8.4 kg). The 304 is designed to be used in place of a seat cushion. By using an additional Confor© Foam cushion the seat thickness of the pack may be from 1" (2.5 cm) to 6" (15 cm) thick depending on the type of airplane and how high the user desires to be in the cockpit. The parachute assembly is designed to be used in airplanes where head room is not restricted or moving forward in the cockpit is not possible including: Skybolt, Yak 52, Yak 55, CJ-6, Stearman, Great Lakes, Pitts S 2B, Decathlon, RV-4 and many others. For RV-4 and RV-8 aircraft the seat container is modified slightly to fit the exact size of the seat pan. The options for the RV version remain the same as the standard version. System Comes Complete with: Harness/Container, Mid-Lite Parachute, Ripcord, Lil Grabber Pilot Chute, Seat Cushion, Carry Bag, and Manual. TSO - C23c cat. B.....**See Our Website for All Versions and Prices.**

PARA-CUSHION 306 - SQUADRON SEAT

The Para-Cushion 306 Squadron Seat measures 16.5" (42 cm) tall by 13" (33 cm) wide by 6.5" (16.5 cm) thick and weighs approximately 19.5 lbs. (8.8 kg). Color Options: Stock Colors are Black, Red, Navy Blue, Royal Blue, and Olive Drab. This applies to Container, trim, and harness colors. Color Choices: Black, Red, Navy Blue, Royal Blue, and Olive Drab. The pack and cushion combination are shaped to fit fully into the seat to provide a large stable, and comfortable seating area for the pilot. The harness is fully adjustable in the main lift webs (vertical straps), as well as in the lumbar area to ensure proper fit, provide support, and remain comfortable. The parachute assembly is designed to be used with the bucket style seat pan found in most warbirds such as: SN-J, T-6, Harvard, T-34, T-28, P-51, Stearman, and many others. TSO - C23c cat. B.

See Our Website for All Versions and Prices.

PARA-CUSHION 305 - CHAIR

The Para-Cushion 305 Chair measures 42" long (105 cm) by 16" (40 cm) wide by 2.5" (6cm) to 1" (2.5cm) thick and weighs approximately 16.5 lb. (7.5 kg). This back mounted container is built to extend from the shoulders of the user to just above the knees. This long design allows the parachute to be packed in a larger area keeping the system as thin as possible. Confor© Foam padding throughout the system allows the user to comfortably sustain flight for many long hours. The parachute assembly is designed to be used in airplanes where your seat is reclined such as a Grob, Giles 202, the rear seat of an Extra, and many others. System Comes Complete with: Harness/Container, Mid-Lite Parachute, Ripcord, Lil Grabber Pilot Chute, Carry Bag, and Manual. TSO - C23c cat. B.....**See Our Website for All Versions and Prices.**

ACROPRO PARACHUTE

The AcroPro is designed with Aerobatic pilots in mind. At just 16 lbs., this lightweight, thin, and comfortable pack supports the pilot during high G maneuvers while maintaining comfort and safety. The AcroPro, measures 24" (60 cm) tall by 16" (40 cm) wide by 3" (7 cm) thick and weighs approximately 16 lbs (6.5 kg). In many cases, by removing the back cushion of the seat pan, the pilot may place the AcroPro in its place. Choose our Standard Harness or the Aerobatic Harness at no additional charge. AcroPro comes with: Harness/Container, Mid-Lite Parachute if desired or C-9 (call for price), Ripcord, Lil Grabber Pilot Chute, Carry Bag, and DVD Manual. TSO - C23c cat. B & SAE AS-8015A.

Standard Harness - Harness/Container Only P/N 13-21184 ..... ---
Standard Harness - Complete Mid-Lite.....P/N 13-21186 ..... ---
Aerobatic Harness - Harness/Container Only ..P/N 13-21185 ..... ---
Aerobatic Harness - Complete Mid-Lite .....P/N 13-21187 ..... ---

PARA-CUSHION 303 - BACK

The Para-Cushion 303 measures 24" (60 cm) tall by 16" (40 cm) wide by 3" (7 cm) thick and weighs approximately 15 lbs (6.5 kg). In many cases, by removing the back cushion of the seat pan, the pilot may place the 303 in it's place. The 303 Back is recommended for use in airplanes where head room is at a minimum and moving forward in the cockpit is not a problem. Recommended for use in airplanes such as: ASW-27, PW-5, Cap-10, Zlin 50, and Christen Eagle.

System Comes Complete with: Harness/Container, Mid-Lite Parachute, Ripcord, Lil Grabber Pilot Chute, Carry Bag, and Manual. TSO - C23c cat. B.

See Our Website for All Versions and Prices.

PARA-CUSHION L-39

The Para-Cushion L-39, measures 27" (68.6 cm) tall by 17" (43.2 cm) wide by 3.5" (8.9 cm) thick and weighs approximately 25.9 lb. (11.7 kg). The L-39 is designed exclusively for the L-39 Albatross. The design incorporates existing Russian designed pilot restraint system found on the original assembly, including shoulder roller guide for inertial reel and seat belt buckles at the hips. This provides you with fit-and-fly technology that perfectly replaces the original equipment and gives you peace of mind knowing that you have a comfortable, top of the line system. System Comes Complete with: Harness/Container, 28' C-9 Parachute, Ripcord, Travel Cushion, G-Pad, Static Line, Lil Grabber Pilot Chute, Carry Bag, and Manual. TSO - C23c cat. B.....**See Our Website for All Versions and Prices.**

MID-LITE CANOPY

The 26' Mid-Lite is the finest reserve canopy available! It is a highly reliable 24 gore canopy. It is tested and approved to FAA TSO C23c Category B.

The canopy has been tested to withstand a 5000lb shock load, which means it is built to withstand the rigors of an emergency bail-out. In production since 1987 the Mid-Lite has proven time and time again that it is the most rugged and reliable reserve you can own!

Canopy Shape	Conical	Canopy Cloth	30-50 cfm (PIA-C-44378d)
Size	26'	Turn Speed	Approx. 7 sec
Number of Gores	24	Forward Speed	6 - 8 mph (10-12 km/h)
Line Length	17' 6"	Opening Time	1.1 - 2.3 sec
Panels Per Gore	4	Rate of Descent	18.5 fps @ 225 lbs (5.7 mps)
Suspension Line Material	Type 1A	Canopy Weight	Approx. 7 lbs
Suspension Line Strength	400 lbs	Maximum Weight	254 lbs (115 kg)

P/N 13-14782 ..... ---

ACCESSORIES

CUSTOM MONOGRAMMING

Monogram your name, N number, or anything that space will allow on the front of your container.....P/N 13-04907 ..... ---

CAPEWELL RISER RELEASE

For landing in high wind conditions allows the pilot to release the parachute, to prevent dragging. Disadvantages -- Heavy and expensive hardware.....P/N 13-04908 ..... ---

LUMBAR SUPPORT PAD

A rounded Tempor® foam pad that attaches in existing channel. Adjustable to just the right position in the small of your back.

P/N 13-15065 ..... ---

PARA-CUSHION G-PAD CUSHION

An auxiliary pad that attaches to the back pad of any Para-Cushion. G-pad is formed to snugly fit around the pilot's sides providing extra support during high G maneuvers .....P/N 13-15066 ..... ---

ELT POCKET

This external pocket snaps onto the system and holds the pilots ELT system. .....P/N 13-15949 ..... ---

SHEEPSKIN BACK PAD

Sheepskin pads keep you cool in the summer and warm in the winter.

Smoke .....P/N 13-11307 ..... ---
Natural .....P/N 13-11309 ..... ---
Black.....P/N 13-04911 ..... ---

QUICK EJECTOR SNAPS

This is the Military type hardware that can be used in place of the standard B-12 snaps. Works best for former military pilots who have become accustomed to this type of hardware.

Snaps .....P/N 13-04909 ..... ---
Aerobatic Snaps .....P/N 13-04910 ..... ---

AERO PAD

A zip-on seat pad held in place by the pilot's weight to restrain the Para-Cushion and prevent shifting during high G maneuvers.

P/N 13-15067 ..... ---

PS

CHECKMATE CHECKLISTS

CHECKMATE CHECKLISTS

Checkmate is the only checklist that contains virtually all data desired by pilots to fly the airplane while excluding the extraneous information which leads to inefficiency, confusion and even refusal to use. They eliminate the tedious and cluttered 15-page flip-book that pilots quickly become discouraged from using.
Checkmate contains the most comprehensive V-speed section in the industry. V-speeds are listed in Knots and MPH. Checkmate not only makes a dramatic difference in everyday use, but also in critical situations. Emergency procedures are right there! Every time! With most of the emergencies there is no time to flip pages looking for the correct procedures.
Available for over 300 single and twin engine aircraft. All follow a standard format. Used by some of the best flight schools in the country. Checkmate Standard Checklists is 6.5" x9" size. Checkmate Compact Checklist 5"x7" size.

Description	Part No.	Price
Alarus/Zenith CH2000	13-04627	---
Aviat Husky A1-B	13-05490	---
Aviat Husky A1-B Amphibian	13-05491	---
Beechcraft Baron B55 64'-76'	13-04649	---
Beechcraft Baron B55 77'-82'	13-04650	---
Beechcraft Baron 58 285 HP	13-04651	---
Beechcraft Baron 58 300 HP	13-04652	---
Beechcraft Baron 58P 310 HP	13-04653	---
Beechcraft Baron 58P 325 HP	13-04654	---
Beechcraft G58 G100	13-04655	---
Beechcraft Bonanza A36 '84 & On	13-08699	---
Beechcraft Bonanza F33A	13-04601	---
Beechcraft Bonanza G36 G1000	13-04608	---
Beechcraft Bonanza NP35	13-04604	---
Beechcraft Bonanza V35TC	13-04606	---
Beechcraft Bonanza A36 thru '83	13-04607	---
Beechcraft Duchess 76	13-04648	---
Beechcraft Bonanza S35	13-08698	---
Beechcraft Sundowner	13-08696	---
Cessna 150 D-K	13-08605	---
Cessna 150 '59-'63 Quickmate	13-00708	---
Cessna 150 '59-'63	13-07301	---
Cessna 150L	13-08606	---
Cessna 150M	13-08607	---
Cessna 152	13-08610	---
Cessna 172 D-E	13-17858	---
Cessna 172 F, G, H	13-08612	---
Cessna 172 I, K, L	13-08613	---
Cessna 172 M	13-08615	---
Cessna 172 N	13-08620	---
Cessna 172 P	13-08625	---
Cessna 172 P 6.5"x4"	13-08630	---
Cessna 172 RG	13-08635	---
Cessna 172 S	13-04576	---
Cessna 172 S G1000	13-04577	---
Cessna 177	13-08636	---
Cessna 177 RG	13-08637	---
Cessna 182 E-M	13-08638	---
Cessna 182 P	13-08639	---
Cessna 182 Q	13-08640	---
Cessna 182 R	13-08641	---
Cessna 182 RG	13-08645	---
Cessna 182 S	13-04578	---
Cessna 182 T	13-04579	---
Cessna 182 T G1000	13-04580	---
Cessna T182T	13-04581	---
Cessna 206H	13-04583	---
Cessna 206H G1000	13-04584	---
Cessna T206H G1000	13-04585	---
Cessna T206H G1000,GFC700 C	13-05638	---
Cessna T206H G1000 Amphibian	13-05394	---
Cessna 210M	13-05476	---
Cessna T210M	13-05483	---
Cessna 210N	13-05482	---
Cessna T210N	13-05484	---
Cessna 303 Turbo Crusader S	13-05635	---
Cessna 303 Turbo Crusader C	13-05636	---
Cessna 310Q	13-04629	---
Cessna 310R	13-04630	---
Cessna 340A	13-04631	---
Cessna 402B	13-04632	---
Cessna 421B	13-04634	---

Description	Part No.	Price
Cessna 421C	13-04637	---
Cirrus SR20-Electric	13-04614	---
Cirrus SR22	13-04615	---
Citabria 7ECA / 7KCAA	13-07991	---
Diamond DA20 C1	13-04621	---
Diamond DA20-100	13-04622	---
Diamond DA40-180	13-04623	---
Diamond DA40-180 G1000	13-04624	---
Diamond DA40-180 FP	13-04625	---
Diamond DA40-180 FP G1000	13-04626	---
Diamond A42 G1000	13-04656	---
Maule MT 7-235	13-04613	---
Mooney 201 (M20J)	13-08700	---
Mooney Encore M20K	13-05492	---
Mooney M20K-231	13-04616	---
Mooney M20K-252	13-04617	---
Mooney M20M/Bravo	13-04618	---
Mooney M20R/Ovation	13-05493	---
Mooney M20R/Ovation G1000	13-04620	---
Mooney M20S/Eagle	13-05494	---
Mooney M20TN/Acclaim	13-04714	---
Mooney M20TN/Acclaim Compact	13-04715	---
J3 CUB 65	13-16432	---
Super Cub 1750 LB GW	13-16433	---
Super Cub 2000 LB GW	13-16434	---
Piper 6X	13-04586	---
Piper 6XT	13-04587	---
Piper Archer II	13-08670	---
Piper Arrow II	13-08675	---
Piper Arrow III	13-08680	---
Piper Arrow 180	13-04592	---
Piper Arrow 200	13-04593	---
Piper Aztec E	13-04643	---
Piper Aztec F	13-04644	---
Piper Cherokee 140	13-08655	---
Piper Cherokee 180	13-08656	---
Piper Cherokee 235	13-08685	---
Piper Cherokee Six/30	13-05486	---
Piper Lance	13-04594	---
Piper Lance II Turbo	13-05488	---
Piper Malibu 310	13-04598	---
Piper Mirage 350	13-04599	---
Piper Navajo 310	13-04645	---
Piper Navajo 350 Chieftan	13-04647	---
Piper Saratoga FG	13-04595	---
Piper Saratoga SP	13-05489	---
Piper Saratoga II HP	13-04596	---
Piper Saratoga II TC	13-04597	---
Piper Seminole	13-08690	---
Piper Seneca I	13-04639	---
Piper Seneca II	13-08695	---
Piper Seneca III	13-04640	---
Piper Seneca IV	13-04641	---
Piper Seneca V	13-04642	---
Piper Tomahawk	13-08650	---
Piper Twin Comanche	13-04638	---
Piper Warrior	13-04588	---
Piper Warrior II	13-08665	---
Piper Warrior III	13-04590	---
Piper Warrior III with Avidyne Entegra	13-05640	---
Symphony SA160	13-04628	---

Checkmate Universal Single .....P/N 13-08705 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CHECKMATE CHECKLISTS

CHECKMATE IFR

In the IFR environment organization and management lead to smoother, stress-free and safer outcomes. CheckMate IFR will assist you through preflight planning to touch-down on the IFR flight. Whether you are cleared for the complete approach or radar vectored to the FAF, CheckMate IFRs format will help keep the flight business orderly and functional. It is precise & specific to the different phases of those sometimes precarious flights. You will be reminded when to prepare and look ahead to each phase. A quick review of CheckMate IFR before flight will help you determine pilot and aircraft preparedness and legalities, how to give those greatly appreciated pilot reports on icing and turbulence, and what ATC expects you to do after radio failure; Professional information in a concise and orderly manner.

Standard (6" x 9.5") .....P/N 13-08805 ..... ---
Compact (5" x 7") .....P/N 13-08810 ..... ---

SURVIVING THE FIRST 24 HOURS CHECKMATE®

Surviving the First 24 Hours CheckMate® clearly details the procedures and equipment that you will need to survive a forced landing and the subsequent 24 hours. The preparation before a flight can easily make the difference between surviving or not surviving. This is one of the most important pieces of equipment in a pilot's pre-flight planning.

Available in three sizes.
Standard (6.5"x 9") .....P/N 13-00444 ..... ---
Compact (5"x 7") .....P/N 13-00446 ..... ---
Pocket (3.75"x 3.25") .....P/N 13-00447 ..... ---

CHECKBOOK CHECKLISTS

Aviation Checkbook is a high quality, multi-page laminated checklist utilizing factory type information for FAA Part 141 and 61 schools. Designed as a primary checklist giving all details and responses needed by new students or pilots wanting a multi-page checklist without the usual bulk. Shirt pocket size with mark and erase surface for notes. The various checklists for your aircraft are stacked and color tabs allow you to locate the checklist you need.

Part No.	Description (Checkbook Checklist for:)	Price
13-03091	Cessna150 D-K	---
13-01262	Cessna 150M	---
13-01264	Cessna 172FGH	---
13-01270	Cessna 172P	---
13-03102	Cessna 172RG	---
13-01273	Cessna 182N	---
13-01288	Piper Seminole	---
13-01291	Piper Seneca I	---
13-01276	Cessna 182R	---
13-01277	Cessna 182S	---
13-01278	Cessna 182RG	---
13-01280	Cherokee160	---
13-01282	Piper Warrior	---
13-01283	Piper Warrior II	---
13-01284	Piper Archer II	---
13-01286	Piper Arrow II	---
13-01287	Piper Arrow III	---

FLYWRITE COCKPIT WRITING PAD

FlyWrite™ is not another "flight planning" layout. It is designed to give you a dedicated place for all the information that flows while in the cockpit of the aircraft. Convenient top-bound writing pad. Each pad contains 50 5" x 8" sheets and can be used with or without standard junior legal vinyl binders. IFR clearances, ATIS, AWOS, frequencies, flight times, hobbs times, tach times, airport information , frequency changes, hand-off's, altitude changes, weather, etc, now have a home. There is also an area for random information or diagrams. FlyWrite™ also contains a handy vertical scale which measures mileage for WAC, SEC, TAC, NOS, JEPP, & ELA charts, eliminating the need for that ruler you can never find.

P/N 13-03307 ..... ---

MOUNTAIN FLYING CHECKMATE

CheckMate Aviation's new Mountain Flying CheckMate™ is a full color, plastic card that is a compilation of the special knowledge required for mountain flying. Competent flying in mountainous terrain requires knowledge far beyond what is taught in standard flight courses; and as most pilots discover, sooner or later, flying in mountainous terrain is inevitable.

CheckMate Aviation's Mountain Flying CheckMate™ covers both the rules and common sense of flying that are critical when in this aspect of flight.

Available in 3 sizes.
Standard (6.5"x9") .....P/N 13-02713 ..... ---
Compact (5"x7") .....P/N 13-02714 ..... ---
Pocket (6.75"x3.25") .....P/N 13-02716 ..... ---

MICROKIT AUDIO CHECKLIST

The Audio Checklist is NORSEE FAA-approved as minor alteration for installations on FAA-certified airplanes.
The Microkit Audio Checklist is a digital device that plays pre-stored audio files checklists using the airplane intercom or audio panel. The unit can also connect directly to a headset providing the headset can amplify the audio output of the unit. The Audio Checklist unit comes with a remote control to trigger playing a checklist and it offers an interface for up to 3 external push-buttons such as on the panel to trigger playing any checklist. These 3 optional push-buttons can be installed then configured to trigger a specific checklist such as the Emergency Checklist, GUMPS, or Landing (on final) Checklist with a single push.
Owners/Operators are able to upload their own checklists using the built-in WiFi interface.
The remote control offers direct access to specific checklists such as the "Emergency Checklist" using a single dedicated button. Several emergency checklists can be stored and accessed.
Direct access to the next checklist once the previous one is already played, such as the PreStart checklist then the next checklist the unit will play is the Taxi for example, as Owners/Operators decide the order sequence of the checklists when uploading the audio files to the unit.

P/N 11-20515 .....---

PS

CHECKLISTS

THRU-VIEW EMERGENCY CHECKLISTS

The Thru-View Emergency Checklist is a heads-up, emergency checklist made of high quality, transparent static cling vinyl that adheres to a window or clear sun visor without the use of adhesive for quick, convenient reference.
Features: • Engine Failure After Take Off Checklist • Engine Failure In • Flight Checklist • Engine Fire In Flight Checklist • Transponder Codes And Two of the More Commonly used Checklists: • The Before Takeoff Checklist and • The Before Landing Checklist

Aircraft	Part No.	Price
Cessna 172 with Carb	13-21467	---
Cessna 172SP	13-21468	---
Cessna 182T	13-21470	---
Bonanza A36/G36	13-21471	---
Bonanza F33	13-21475	---
Bonanza V-Tail	13-21476	---
Piper Cherokee Warrior	13-21472	---
Diamond DA40	13-21473	---
Cirrus SR20 SR22	13-21474	---

THE PRECIFLIGHT CHECKLIST

Normal Procedures - Before Start, Start-up, Run-up, Before Takeoff, Climb, Cruise, Descent, Before Landing, After Landing, & Shutdown. Emergency Procedures - Engine Failures (Takeoff Roll, After Liftoff, & In Flight), Fires (During Start, In Flight, Electrical, Cabin, & Wing), Electrical, & Power-Off Landing. Communications Template. Includes V speeds & light gun signals. Durable lamination. Fits on any kneeboard or inside any iPad case. Made by full-time Certified Flight Instructors.

Description	Part No.	Price
Cessna 152	13-20156	---
Cessna 172	13-20157	---
Piper	13-20160	---

E.S.P. CHECKMATE™

E.S.P. CheckMate™ is a 1st for Aviation, and the only product of its kind available. Our new "Emergency Substitute Pilot "™ could save the lives of you and your passengers by providing the most basic and simplest of terms and procedures to the NON-PILOT, in the unfortunate event the real pilot becomes incapacitated. E.S.P. CheckMate™ assists the NON-PILOT in controlling the aircraft, reaching help on the radio, and if necessary, landing the aircraft. The graphical format makes it easy and comfortable to follow. E.S.P. CheckMate™ can easily be the difference in the outcome of this most serious type of emergency. For safety and readability, we are publishing only in 7.5" x 10" size..... P/N 13-01834 ..... ---

EZ COPILOT CHECKLISTS

The EZ Copilot TM Airplane Checklist is a must-have tool for General Aviation pilots who prioritize safety, efficiency, and convenience. Designed with a focus on practicality, this checklist offers a range of features that make it an invaluable asset in the cockpit.
Measuring a perfect 6″ x 9″ in size, the EZ Copilot TM strikes the perfect balance between being easily accessible and not taking up unnecessary space. It fits comfortably in your flight bag or cockpit, always within reach when you need it most.

Description	Part No.	Price
Cessna 172 SP Checklist	13-24607	---
Cessna 172L Checklist	13-24610	---
Cessna 172N Checklist	13-24609	---
Cessna 172R Checklist	13-24608	---
Cessna 172 SP G-1000 Checklist	13-24606	---
Piper Cherokee 140 Checklist	13-24616	---
Piper Warrior II Checklist	13-24612	---
Piper Archer III Checklist	13-24615	---
Piper Archer II Checklist	13-24614	---
Piper Warrior I Checklist	13-24611	---
Piper Warrior III Checklist	13-24613	---

QREF CHECKLISTS

Qref Books - Topics Covered: Preflight, Takeoff/Cruise, Landing, Comprehensive Abnormals and Emergencies, V-speed list, cruise performance chart.

Qref Cards - Topics Covered: Preflight, Takeoff/Cruise, Landing, Abnormals and Emergencies, V-speed list.

Description	Part No.	Price
Cessna 150 Qref 0	13-15560	---
Cessna 152 Qref Book	13-15561	---
Cessna 172 Universal Qref Book	13-15562	---
Cessna 172RG Qref Book	13-15567	---
Cessna 172S G1000 Qref Book	13-15569	---
Cessna 182R Qref Book	13-15571	---
Cessna R182 Skylane RG Qref Book	13-15572	---
Cessna Turbo 182T Qref Book	13-15575	---
Cessna 150 Qref Card	13-15625	---
Cessna 172 Universal Qref Card	13-15627	---
Cessna R182 Skylane RG Qref Card	13-15635	---
Cessna 185H-K QRef Book	13-17523	---
Cessna Turbo 182T Qref Card	13-15640	---
Cessna Turbo 182T G1000 Qref Card	13-15641	---
Cessna Turbo 206H Qref Card	13-15642	---
Cessna Turbo 210M Centurion Qref Card	13-15643	---
Cessna 210/210A Qref Book	13-17524	---
Cessna 210G/H/J Qref Book	13-17526	---
Cessna 210L/M Qref Book	13-17527	---
Cessna Turbo 210M Qref Book	13-17528	---
Cessna 210N Qref Book	13-17529	---
Cessna Turbo 210N Qref Book	13-17531	---
Cessna Pressurized P210N Qref Book	13-17532	---
Cessna Pressurized P210R Qref Book	13-17533	---
Cirrus SR20 Analog Qref Book	13-15578	---
Cirrus SR20 G1-G2 Qref Book	13-15579	---
Cirrus SR22 G3 Qref Book	13-15583	---
Cirrus SR22 Perspective Qref Book	13-15584	---
Cirrus SR22 G3 Turbo Qref Book	13-15585	---
Cirrus SR20 Perspective Qref Card	13-15646	---
Cirrus SR22 G3 Turbo Qref Card	13-15650	---
Mooney M20C Mark 21	13-15589	---
Piper Archer II PA-28-181 Qref Book	13-15590	---
Piper Arrow 180 PA-28R-180 Qref Book	13-15592	---
Piper Arrow II PA-28R-200 Qref Book	13-15593	---
Piper Arrow III PA-28R-201 Qref Book	13-15594	---
Piper Cherokee 140 PA-28-140 Qref Book	13-15598	---
Piper Cherokee 150 PA-28-150 Qref Book	13-15599	---
Piper Cherokee 160 PA-28-160 Qref Book	13-15600	---
Piper Saratoga SP PA-32R-301 Qref Book	13-15603	---
Piper Warrior 151 PA-28-151 Qref Book	13-15606	---
Beechcraft Bonanza C D 35 QREF CARD	13-15621	---
Piper Archer II PA-28-181 Qref Card	13-15654	---
Piper Arrow III Turbo PA-28R-201T Qref Card	13-15659	---
Piper Cherokee 180 PA-28-180 Qref Card	13-15663	---
Piper Navajo PA-31-310 B C Qref Card	13-15665	---
Piper Tomahawk PA-38-112 Qref Card	13-15667	---
Beechcraft Bonanza J K M 35 QREF CARD	13-15622	---
Beechcraft Bonanza N P 35 QREF CARD	13-15623	---

SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE LISTING OF QREF CHECKLISTS.

PS

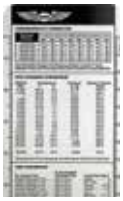
PLOTTERS

FLIGHT COMPUTERS

E6-B METAL FLIGHT COMPUTER - The best slide-rule-style flight computer on the market, with solid aluminum construction and easy-to-read lettering. ASA's E6-B features a wind component grid and comprehensive crosswind correction chart, and on the other side the slide computes time, speed, distance, altitude, true airspeed, and density altitude problems as well as conversions. Nautical and statute scales are included.
P/N 13-00813 ..... ---

E6B PAPER FLIGHT COMPUTER - Made from solid, heavyweight fiberboard, an economical version of the aluminum model described above including all its problem-solving features. .....P/N 13-02298 ..... ---

MICRO E6-B - This pocket-sized, brushed aluminum E6-B is a full function aviation computer. Popular among military pilots, it features a high-speed and low-speed wind correction slide, high-speed compressibility table, and instruction manual. Micro E6-B performs all the standard manual flight computer functions, and it conveniently fits in a shirt pocket or glove box.
P/N 13-02299 ..... ---



E6-B HIGH SPEED SLIDE - A companion product, this slide picks up where the traditional metal flight computer leaves off (ASA-E6B), providing calculations for the high-speed realm of flight (in the range of 220-700 knots or miles per hour). Pilots simply replace their current slide with this one, which then continues to use the circular computer from traditional E6-Bs. The slide also includes compressibility correction chart, ICAO Standard Atmosphere reference table, worldwide time conversion table, speed limits for the United States, and most frequently-used weight & balance formulas. All of the pertinent formulas & information required for high-altitude, high-speed operations. Meets both FAR &

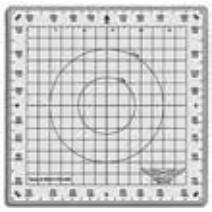
E6-B CIRCULAR FLIGHT COMPUTER

The E6B Circular Flight Computer combines high-quality construction with easy-to-read lettering to deliver the most efficient, accurate, and convenient manual flight computer availalble. Perform multiple calculations ranging from basic arithmetic and flight planning problems to complex in-flight computations. The E6B Circular Flight Computer is a great tool to use during flight planning, flight training or studying, and may be used during FAA written knowledge exams. Pilots flying faster aircraft at higher altitudes will find this computer useful in gaining insight to the external atmospheric conditions and the effects they have on in-flight performance. .....P/B 13-16352 ..... ---

PROFLIGHT FIXED AZIMUTH PLOTTER

The ProFlight Fixed Azimuth Plotter is: • Manufactured & Packaged in the U.S.A. • Made from Premium Clear 8010 Polycarbonate • More Flexible & Warp Resistant than Acrylic or PVC • Printed using Ultra Violet Resistant Ink • Laminated for Lifetime Scratch Protection • Clearly Distinguishable White, Sectional/Terminal Side & on Reverse, a Blue WAC Scale
ProFlight PF-AP-1 Plotter - Your PF-AP-1 is a premium Fixed Azimuth Plotter designed for measuring distances and courses on VFR navigational Sectional, Terminal & World Aeronautical Charts. This plotter has been designed to exacting standards and slight variations with chart scales may exist as a result of the instability of paper charts in certain temperature and humidity conditions.....P/N 13-11676 ..... ---

SQUARE AVIATION PLOTTER



Constructed of durable Lexan®, this plotter won't melt, warp or break in extreme temperatures. Its convenient 5-1/8" square size and ease of use make this plotter a pilot favorite for simple, accurate flight planning. Uses a 1:500,000 scale and includes 5 NM and 10 NM radius rings for quick and easy measurement. The 2 NM grid makes alignment with parallels simple. Plus, it's guaranteed for life!
P/N 13-08056 ..... ---

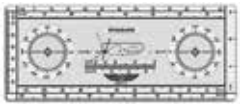
PLOTTERS

Durable Lexan® resin won't melt, warp or break in extreme temperatures - guaranteed! Each plotter features 8 scales to meet the needs of all VFR aeronautical charts - nautical on one side, statute on the flip. Nautical-Statute conversion scale also included. Made in USA.

ULTIMATE ROTATING PLOTTER - 13-1/4" long. Rotating azimuth eases flight planning with direct readout of course. Made in USA.
P/N 13-02302 ..... ---

ULTIMATE FIXED PLOTTER - 13-1/4" long. Quick scale reference is provided for both statute and nautical miles. Made in USA.
P/N 13-02424 ..... ---

ULTIMATE MICRO PLOTTER - 8" long. Convenient for flight bag, shirt pocket, or airplane storage. Made in USA.
P/N 13-02303 ..... ---



INSTRUMENT PLOTTER - ASA's instrument plotter features: 12 scales to accommodate both NOS & Jepp instrument charts, including a conversion scale for Nautical and Statute miles; holding patterns depicted for both Standard and Nonstandard entries; compass roses allowing quick course & bearing information; and professional layout enabling easy reading during en route spot checks.....P/N 13-02306 ..... ---

FIXED PLOTTER - Constructed of sturdy clear plastic with easy-to-read numbers and scales. It includes WAC, Sectional, and Terminal Area scales, and is checked and approved by the Weights and Measures Department. Quick scale reference is provided for both statute and nautical miles.
P/N 13-02304 ..... ---

ASA ROTATING PLOTTER - Features a nonslip rotating azimuth made from strong plastic for quick course readout. Constructed of sturdy, clear plastic with easy-to-read numbers and scales.
P/N 13-02307 ..... ---

THE PILOT POCKET PEN HOLDER

The Pilot Pocket PEN holder is the easy solution to stowing pens, pencils and sunglasses in the cockpit. The compact design and suction cup mounting over a variety of placement options in any type of cockpit. A convenient temperature conversion chart is printed on the front for quick reference. Secures firmly to any smooth plastic or glass window surface with its 3 suction cup design. Each suction cup has a pull-off tab, making it easy to detach and reattach. It's perfect for airplane renters. Built-in pen slots. Convenient holder for your sunglasses. Constructed of high quality, transparent acrylic that is strong, resistant to scratches and won't discolor in sunlight. A convenient temperature conversion chart is printed on the front for quick reference. 4" high, 1.25" wide and 1.25" front to back.
Pilot Pocket.....P/N 13-16371 ..... ---

PEN AND TOUCH PAD STYLUS

A dual-purpose, twist action (black ink) ballpoint pen featuring a soft stylus end for use with touch-screen mobile devices such as iPads, tablets, smartphones, etc. Black barrel with chrome accents.
P/N 13-12066 ..... ---

B3 AVIATOR PEN

Special slim design fits flight suit and military uniform pockets, this medium-point 3-in-1 twist pen comes with two different colored ink, and a 0.5 mm pencil with eraser. Featuring non-reflective flat finish on a metal barrel, this pen is FOD compliant for cockpit and ramp safety.

Barrel Color	Ink Color	Part Number	Price
Black	Red/Black	13-24415	---
Sand	Red/Black	13-24416	---

PS

ASA PILOT SUPPLIES

HIGHLIGHTER TAPE

A removable alternative to highlighter pens for all kinds of valuable permanent documents. Sticks securely, yet removes easily without damage to most surfaces. Vivid colors can't be missed, yet transparent feature allows you to see what is underneath. Economical - use as much or as little as you want.

Pink ..... P/N 14-00889 ..... ---
Yellow ..... P/N 14-01860 ..... ---
Green ..... P/N 14-01861 ..... ---
Orange ..... P/N 14-01862 ..... ---

AIRMAN CERTIFICATION HOLDER WITH FAA SYMBOL

Airman Certificate holder with imprinted FAA symbol ..... P/N 13-19713 ..... ---

LICENSE HOLDERS

13-07900

Black leatherette with clear plastic window to display ownership certificates. P/N 13-07900 only includes eyelet holes for mounting and metal plates to keep corners from fraying.

4-7/8" X 6-7/8" ..... P/N 13-07900 ..... ---
7-1/2" X 8" ..... P/N 13-17904 ..... ---
7.5" x 5.5" ..... P/N 13-17905 ..... ---
14" x 5.5" ..... P/N 13-17906 ..... ---

NELSON AIRCRAFT DOCUMENT CASE

This durable, flexible blue cordura pouch is an ideal way to keep aircraft registration, insurance, log books, operating manuals, and other important documents all in one safe location. Measures 18"W x 12"H. Features top quality zipper along front side for easy access and location to mark your aircraft number on front. • Made of Cordura • Two compartments

Red ..... P/N 13-02934 ..... ---

PROFLIGHT BOOSTER SEAT POUCH

• End cockpit clutter • Made or durable Cordura • Stores flashlight, fuel tester, flight guides, approach plates, charts, plotter, E6-B, sunglasses and more. • Available in black, AF blue & red.

Black ..... P/N 13-31871 ..... ---
Blue ..... P/N 13-03005 ..... ---
Red ..... P/N 13-31870 ..... ---

CESSNA 172 CUP HOLDERS

The cup holder with the headset extension is the solution for hanging your headset. It does not get in the way of the control wheel!
Fits for Left or Right installation.
Aircraft Eligibility:
Cessna 172 - Fits Models C - Q only
Does not fit factory late model plastic or aftermarket plastic side panels.

With Headset Extension ..... P/N 13-24661 ..... ---
Without Headset Extension ..... P/N 13-24662 ..... ---

CESSNA 182 CUP HOLDERS

The cup holder with the headset extension is the solution for hanging your headset. It does not get in the way of the control wheel!
Aircraft Eligibility: Cessna 182 - Fits models D - R with Upholstered Side Panels Only. **Note**: Does not fit factory late model plastic or aftermarket plastic side panels

Model	Mount Side	Part No.	Price
With Headset Extension	Pilot (left)	13-24659	---
Without Headset Extension	Pilot (left)	13-24663	---
With Headset Extension	Co-Pilot (right)	13-24660	---
Without Headset Extension	Co-Pilot (right)	13-24664	---

FLIGHT PLANNER SHEETS

Cross-country planning sheets contain a flight plan section, weight & balance calculation chart, special equipment suffix chart, fuel management, space for radio frequencies, & more.
Specifications:
• Weight: 0.75 Lbs.
• Dimensions: 8.25" X 10.75"
• Page Count: 48 Pages

P/N 13-18431 ..... ---

STUDENT FLIGHT RECORDS

ASA Flight Record Folders provide areas to record pertinent student information, stage checks passed, lesson content, lesson performance, flight hours, instructor notes & endorsements, solo endorsements or aircraft checkout records, and are current to both Part 61 & Part 141 program requirements. Sturdy & durable, these flight records are available separately, as part of ASA's pre-packaged training kits, or as part of an ASA PACK - Personalized Aviation Custom Kit.

SFR Private ..... P/N 13-01548 ..... ---
SFR Instrument ..... P/N 13-01551 ..... ---
SFR Helicopter ..... P/N 13-01547 ..... ---

CERTIFICATES AVIATION ACHIEVEMENT AWARDS

Authentic, full-color certificates are perfect for framing yet sturdy enough to slip into the student's flight record as a pleasant surprise to be discovered on their next visit to the airport. Mark progress with style, while further motivating students. 9"x12". Sold in packs of 10.

Private Ground School Certificate. ..... P/N 13-02327 ..... ---

HOLDING PATTERN VISUALIZER

This useful tool shows a pilot what entry is appropriate given the as signed holding radial. It is also a very useful teaching aid.
Approved for use during FAA Knowledge Exams!
You are flying a heading of 360 when you are issued this clearance "…hold east of the ABC VORTAC on the zero niner zero radial, right turns…"
This clearance is enough to invoke a rapid heartbeat in the most experienced pilots. Although holding patterns may be used on any instrument flight, holding clearances are issued infrequently enough for pilots to get a little rusty on the procedures. Visualizing a holding pattern from a current position is one of the more challenging aspects of instrument flight.
A perfect learning tool for experienced instrument pilots, students, and convenient instructional aid for flight instructors. Made from durable plastic in the USA ..... P/N 13-06940 ..... ---

YOKE CLIP

ASA's new yoke clip holds all the necessary flight paperwork right where pilots need it, leaving their hands free to fly. Simple to install, the black plastic, I-Beam construction is strong enough to serve as a pilot's third hand. The clip is higher than other yoke clips, holding sectionals, approach plates, flight logs, checklists, flight computers, and pens in easy view. The unique, over-centering cam easily adjusts to fit all general aviation aircraft yokes without modification ..... P/N 13-01043 ..... ---

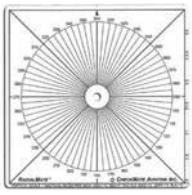
PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ASA COLOR E6-B COMPUTER

ASA's color E6-B is enhanced with color for quick identification of key elements and easier readability. The new color E6-B is based on ASA's most popular model: slide-rule-style flight computer, the ASA-E6B. It's identical in size to the venerable favorite, made with the same solid aluminum construction and featuring all the functionality pilots have relied on for decades. On the circular side, black is used for the rate arrow and units to be calculated, red is used for weight and volume and blue is used for distance, time and temperature scales. On the wind side, colors are used to identify wind variation: blue identifies west (or right wind correction angle) and red identifies east (or left wind correction angle). Measures 9-3/4" x 5". In The Box: Vinyl case, and Instruction booklet .....P/N 13-10288 ..... ---

RADIALMATE COMPASS ROSE



RadialMate™, a 3.5" clear 20 mil plastic compass rose allows you to instantly read a desired course by placing the product over any sectional, chart, or graphic. There are no reciprocals to calculate. RadialMate™ comes with a hole in the middle, allowing additional use as a string compass. It is conveniently sized to fit in your pocket. RadialMate™ also contains Safe Flight's vertical scale which measures mileage for WAC, SEC, TAC, NOS, JEPP and ELA charts eliminating the need for that ruler you can never find.

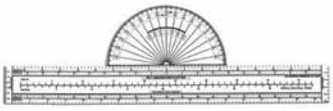
P/N 13-08799 ..... ---

EXPERIMENTAL AIRCRAFT CERTIFICATION KIT

A new amateur-built aircraft certification kit created by the Experimental Aircraft Association (EAA) gives builders a simplified way to complete the required FAA paperwork for their new projects. The Amateur-Built Aircraft Certification Kit includes everything you need to register and certify a new experimental amateur-built aircraft in the United States. The 15-page, step-by-step guide walks you through the entire process from getting an N-number to the aircraft inspection, and provides samples to help complete each required form. The kit includes all FAA forms, Experimental sticker (in black), data plate, and a convenient placard decal sheet.

P/N 13-04244 ..... ---

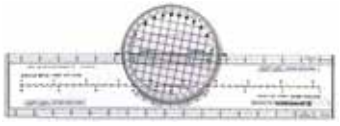
PN-1 NAVIGATION PLOTTER



Allows easy identification of WAC and Sectional chart scales. Calibrated in statute & nautical miles.(Size: 12.25" x 4")

P/N 13-21724 ..... ---

PJ-1 ROTATING AZIMUTH



Measure the true course or to determine the magnetic course. Includes scales for sectional terminal area & WAC charts in statute & nautical miles. Size: 3.25 x 13"; 3-3/8" Dia.....P/N 13-21726 ..... ---

ASA CX-3 ELECTRONIC FLIGHT COMPUTER

Note: To mount the CX-3 flight computer, use the MGF Sport Stratus mount combined with any MGF Sport yoke, suction, glare shield mount. (See Accessories)

The CX-3 Flight Computer provides a fast, accurate flight computing solution and takes confusion out of the equation for ground school study, preflight planning, and enroute navigation. Fast, versatile and easy to use, the CX-3 delivers accurate results quickly and efficiently through an intuitive menu structure designed to follow typical flight planning sequences with a minimum of keystrokes. It can be used on all FAA and Canadian pilot, mechanic, and dispatcher knowledge exams.

A multitude of aviation functions can be performed on the CX-3 flight computer including those related to time, speed, distance, heading, wind, fuel, altitude, cloud base, standard atmosphere, glide, climb & descent, weight & balance, as well as a holding pattern function to help determine entry method and holding details. A calculator, clock, timer and stopwatch are also built in along with multiple settings for lighting, backlighting, themes, scrolling speed, time zones and more. Weight: 0.70 lbs. Dimensions: 3-1/3" W x 6-1/2" H x 3/4" D.....P/N 13-01040 ..... ---

ASA E6-B METAL FLIGHT COMPUTER

The best slide-rule-style flight computer on the market, with solid aluminum construction and easy-to-read lettering. ASA's E6-B features a wind component grid and comprehensive crosswind correction chart, and on the other side the slide computes time, speed, distance, altitude, true airspeed, and density altitude problems as well as conversions. Nautical and statute scales are included. Standard (9-3/4" x 5")

P/N 13-00813 ..... ---

MICRO E6-B

This pocket-sized, brushed aluminum E6-B is a full function aviation computer. Popular among military pilots, it features a high-speed and low-speed wind correction slide, high-speed compressibility table, and instruction manual. Micro E6-B performs all the standard manual flight computer functions, and it conveniently fits in a shirt pocket or glove box

P/N 13-02299 ..... ---

JEPPESEN STUDENT CSG COMPUTERS

This computer made of composite materials works just like an aluminum computer with all the same functions and features, but at a lower cost. Ideal for new students or as an extra to keep in your desk at home. Printed numbers are sharp, clear, and easy to read. Like all Jeppesen products, the quality is superior.

Plastic.....P/N 3866 ..... ---

PS

LOGBOOK FLAGS

Organize your logbook and track your training progress with our patented Private Pilot Single-Engine Logbook Flags. Flags are pre-printed with Aeronautical Experience requirements for Private Pilot Single-Engine license. Double-sided flag technology allows you to view information on both sides of the logbook. Perforated design enables easy folding and alignment. Rounded edges prevent flags from getting caught in books/bags. Uniquely color-coded flags for easy identification based on requirements. Repositionable adhesive allows you to adjust/remove flags as needed. Includes a training tracker to record your training goals and monitor performance. Provides a list of essential acronyms and notes for study and review.

Description	Part No.	Price
Private Pilot Single-Engine	13-25623	---
FAR/AIM Private Pilot	13-25619	---
Instrument Rating	13-25624	---
FAR/AIM Instrument / CFII	13-25620	---
FAR/AIM Commercial Pilot	13-25621	---
Commercial Pilot Single-Engine	13-25625	---
Commercial Pilot Multi-Engine	13-25626	---
FAR/FC Aircraft Dispatcher	13-25622	---

JEPPESEN PV-5 IFR ENROUTE PLOTTER

This plotter contains mileage scales (in nautical miles) for all enroute IFR charts. Determines the scale of the chart to be used (usually indicated along the edge of the chart) and then select the corresponding mileage scale on the plotter. Available scales are as follows: 1": 5, 7.5, 10, 15, 20, 25, 30, 35, 40, 60, 80 and 100 nautical miles. Note that the nautical mile-kilometer conversion scale is included on the plotter for your connivance. When placed over a station, this plotter graphically shows actual standard (right hand) and nonstandard (left hand) turns for holding and entry pattern relative to your flight course. This APR plotter also may be used as a ruler using any of the mileage scales, but the 1", 10 miles scale is considered most convenient. Just remember that every 10 miles equals 0.1 inch.

Size 3-3/16" x 8-1/2"....P/N 13-21718 .... ---

E6-B HIGH SPEED SLIDE

A companion product, this slide picks up where the traditional metal flight computer leaves off (ASA-E6B), providing calculations for the high-speed realm of flight (in the range of 220-700 knots or miles per hour). Pilots simply replace their current slide with this one, which then continues to use the circular computer from traditional E6-Bs. The slide also includes compressibility correction chart, ICAO Standard Atmosphere reference table, worldwide time conversion table, speed limits for the United States, and most frequently-used weight & balance formulas. All of the pertinent formulas & information required for high-altitude, high-speed operations. Meets both FAR & JAR (international) requirements. E6-B High Speed Slide.

P/N 13-02301 .... ---

PILOTS FREQUENCY REMINDERS

This little prompter is designed to allow the pilot (especially students) to pre-plan which frequencies will be used during a flight and hang this handy item close at hand in the cockpit. This is ideal when operating in a high density airport area. Helps eliminate cockpit clutter and searching for often used frequencies....P/N 13-04391 .... ---

VOR TRAINING AID

The VOR Training Aid Includes a rotating OBS and a heading indicator dial. Both the glide slope and localizer CDI needles are movable and have an adjustable ON/OFF, NAV flag. The TO/FROM indicator is also adjustable. List , depict and erase VOR intercept instructions and holding clearances in the top practice area.

P/N 13-16037 .... ---

ADF TRAINING AID

The ADF Training Aid features realistic rotating ADF bearing indicator needle and a heading indicator dial. List, depict and erase NDB intercept instructions and holding clearances in the practice area.....P/N 13-16038 ....

VOR FLASH CARDS

Designed to show any pilot how to look at a VOR receiver and read it at a glance. There's no time in the cockpit to spend slowly analyzing the CDI needle and To/From indicator! VOR-At-A-Glance flash cards will teach you: • The difference between VOR courses and VOR radials • What the VOR does not show you • The best way to think about the course deviation indicator • Inbound vs. outbound course indications • How to instantly know your position relative to the VOR • Tricks for reading interception courses right off the VOR • Pilots need to be able to look at a VOR and read the information off immediately. It's just like when you first learned how to read. There is a big difference between the ability to sound the words out and the ability to look at a work and just read it. Pilots need to be able to "read" the VOR!...P/N 13-05773 .... ---

CHINA MARKER WHITE

The economical solution for marking on porous and non-porous surfaces such as paper, cardboard, plastic, wood, glass, ceramics, and some metal. **Product Details**: • Moisture Resistant • Smooth Writing • Non-toxic Pigments ....P/N 14-01625 ....

UNBREAKABLE SUPER PLOTTER

Here's a special flight planning tool we really like. A colorful little plotter with a rotating azimuth that makes it much easier to plot a courseline. Place the compass rose over your departure point and rotate the straight edge towards destination. Presto.. an instant readout of your course! Reads distance in statute miles or nautical miles for both sectional and WAC charts. Made of bullet proof Lexan. Won't crack, break, or warp in extreme heat or cold ....P/N 13-03473 .... ---

RUNWAY SELECTOR

Runway Selector is a simple tool pilots use to select the best runway based on prevaling winds. Runway Selector is a quick easy visual reference for all pilots! As an added bonus, the tool can also be used to confirm your take-off runway as well! Together, all the features of Runway Selector serve to provide multiple quick references for any pilot. The tool is also an excellent tool for instructors to use in teaching a new student pilot in a myriad of situations and teaching situations!....P/N 13-14811 .... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

NO CLUTTER CLIPS

No Clutter Clips • Holds checklists, approach plates, charts, etc. • Stick on most slick surfaces • UV Resistant
1 Small clip per package.....P/N 13-06636 ..... ---
2 Small clips per package ....P/N 13-06408 ..... ---
1 Large clip per package.....P/N 13-06409 ..... ---

CESSNA COCKPIT ORGANIZER

The Cockpit Organizer slides easily between the seats and allows the pilot to easily put needed items within easy reach. Helps to make your cockpit safer, tidy, and adds instant storage.
Designed for the modern cockpit. Places to hold drinks, tablets, cables and more are designed with the pilot in mind. Designed by a Cessna pilot for Cessna pilots. Cessna
Cessna 172 .....P/N 13-24045 ..... ---
Cessna 182 .....P/N 13-24043 ..... ---

RARE AVIATIONS BAGGAGE ORGANIZER

The Baggage Organizer helps pilots keep the critical supplies neat and secure in the back of the aircraft. Supplies can be checked at a glance and everything has a storage place.
• Weight 10 lbs • Dimensions 32 × 10 × 6.5 in.
P/N 13-24044 ..... ---

RARE AVIATION BAGGAGE ORGANIZER 35

Note: Items shown in the product photos are not included.
Store all your emergency aircraft supplies, so they are secure, organized, and easily accessible.
With the Baggage Organizer, you'll instantly find what you need — even in the dark. Since everything is stored in the same place, a glance will let you know you have the critical supplies you need before you depart.
The Baggage Organizer 35 is a perfect addition to any larger single-engine, twin-engine, and corporate aircraft.
Specifications:
• 40" x 18" x 8" .....P/N 13-24555 ..... ---

RARE AVIATION 210 PRO COCKPIT ORGANIZER

Keep your cockpit neat, tidy, and safe with the Cockpit Organizer. Place the organizer between the front seats to instantly create more space for storing important items. Finally, your critical items are within reach during your flight.
Designed by an experienced Cessna pilot. The Cockpit Organizers are cleverly designed storage consoles that slide between the front seats. All spaces were carefully considered including spaces for drinks, tablets, other modern electronics, cables, and more. Create instant storage and peace of mind.
Eligibility: • Cessna 210 • Cessna 182.....P/N 13-24554 ..... ---

CESSNA YOKE CLIP

Yoke Mount Combo Clip (Large). Fits 1" - 1 1/2" Diameter Shaft .....P/N 13-02845 ..... ---

IFR CHART CLIP

Make IFR flying simpler by keeping vital instrument approach plates and charts in place. Attached to the yoke rather than in your lap or on the floor, this chart clip comes in various models designed to install easily on the yoke of your aircraft. Insures that your navigational charts stay in front of your eyes when you need them most. Handy for VFR charts as well. We'll be happy to assist you in determining what model chart clip will best fit your aircraft.
1.5" Post Standard Clamp.....P/N 8131 ..... ---
1.5" Post Wide Clamp .....P/N 8487 ..... ---
2" Post Standard Clamp.....P/N 8690 ..... ---
2" Post Wide Clamp .....P/N 8822 ..... ---
3" Post Standard Clamp.....P/N 8674 ..... ---
3" Post Wide Clamp .....P/N 8915 ..... ---

YOKE CLIPS

Clip this yoke on your aircraft so it does not interfere with movement of controls. Spring may be adjusted for smaller diameter shafts by pinching with pliers.
Large - Used on 1" tube .....P/N 13-04392 ..... ---
Small - Used on 3/4" tube ....P/N 13-04393 ..... ---

APPROACH PLATE HOLDER

• 10 leaf • Flip-over (not accordion) • Size: 6"x 9" • Vinyl.
P/N 13-02772 ..... ---

23 POCKET BIGMOUTH BAG

17 Multi-use pockets inside and 6 outside organize tools and accessories. Opens wide for easy access to bag's contents. Padded reinforced web carrying handles. 12"L x 8 1/2"W x 8"H
P/N 12-00329 ..... ---

12 POCKET TRAYTOTE BAG - This bag has 2 pockets inside and 10 pockets outside with a 11"x 6" multi-compartment tray which slides securely into bottom of bag. Opens wide for easy access to contents and has reinforced web carrying handles. 12"L x 8"W x 12"H.... P/N 12-00163..... ---

14 POCKET TRAYTOTE BAG - This bag features 2 pockets inside, 12 pockets outside, with a 13.5" x 6" multi-compartment plastic tray slides securely into bottom of bag. Opens wide for easy access.
16"L x 9"W x 12"H .....P/N 12-00164 ..... ---

MILITARY STYLE TOOL BAGS

These tool bags are made of heavy-duty military-type tough 18oz./sq.yd. cotton duck with a water repellent mildew-resistant treatment. The mechanics Tool Bags have compartmentalized side pockets with flaps. Hardboard bottoms are completely sewn into each bag and are unexposed. All stitching is of heavy duty nylon thread and the handles are made from heavy military spec. webbing. All inside seams are bound to eliminate raveling of the fabric.Long-tab, self-locking slider. Color: O.D. Green. Available in 2 sizes:
O.D. Green Small: 6" x 6" x 12" Bag.....P/N 13-02500 ..... ---
O.D. Green. Large: 5" x 5" x 16" Bag.....P/N 13-02600 ..... ---

AIRCRAFT STORAGE TOTES

The most beautiful and lightweight aircraft storage tote you could dream of - if you have a Cirrus, Bonanza, a twin, or even a jet, treat yourself to the the most light-weight collapsing aircraft storage containers on the market.
At only 30 ounces in weight, the Got Your Six Aircraft Storage Tote containers allow you to keep your aircraft neat and tidy while maintaining an amazingly elegant aesthetic inside your cockpit. Keep your clean and delicate items inside this beautifully stitched latching tote, with strong carrying handles on both sides. Keep one available for your luggage, clothing, or for passenger headset storage. Alternatively, store your spare oil or tools - no longer using that heavy, unsightly crate or cardboard box. Instead, neatly enclose your products in our collapsing Aircraft Storage Tote!
Supporting up to 30lbs of weight, our Aircraft Storage Containers bond at all corners using durable, reinforced super-lock velcro. The secure handles on both sides make for easy and safe loading of heavy or delicate items into your aircraft. Soft corners protect your cockpit interior and storage lockers from scuffing or marring.
Small (11.75" H x 12.75" D x 12.75" W) .....P/N 13-24528 ..... ---
Medium (11.75" H x 12.75" D x 16" W).....P/N 13-24529 ..... ---
Large (11.75" H x 12.75" D x 21" W) .....P/N 13-24530 ..... ---

CESSNA 182 CENTER CONSOLE ORGANIZER

This model fits all the "widebody" 182's, 205, 206, and 207. If you are ordering for a 205, 206, or 207 please confirm the dimension with your aircraft as some seats have different trim and seatbelts that could prohibit the use. These DO NOT fit a straight tail 182.
Fits Cessna Models:
• All the "widebody" 182's, 205, 206, and 207
• Does not fit a straight tail 182.
• If you are ordering for a 205, 206, or 207 please confirm the dimension with your aircraft as some seats have different trim and seatbelts that could prohibit the use .....P/N 13-24598 ..... ---

CESSNA C210 CENTER CONSOLE ORGANIZER

The 210/182RG model is designed for the body of the organizer to sit right behind the plastic trim of the emergency gear handle. The cup and pen holder section sits out over the gear handle. The cup and pen holder mounts to body of the organizer via a rail system which allows it to be easily removed and stowed to access the gear handle or for P210 co-pilots enter/exit.
Fits Cessna Models: • Cessna 210/P210/182RG
P/N 13-24599 ..... ---

PS

KNEEBOARDS

FLIGHT OUTFITTERS IDECK KNEEBOARDS

The new iDeck Kneeboard incorporates the same silicone holders found in our highly popular Deluxe Kneeboard, and both sizes the large and small iDeck Kneeboards come equipped with two silicone holders attached with Velcro. These iPad holders enable you to customize the layout of your kneeboard deck. The large iDeck Kneeboard includes a spacious silicone holder and a smaller one for an iPhone, while the small iDeck Kneeboard features an iPad mini holder and a cell phone holder. This configuration allows pilots to arrange both an iPhone and iPad on the main deck of the kneeboard, providing unparalleled flexibility and versatility. Alternatively, if you prefer a more traditional kneeboard layout with only the iPad on the deck, the iDeck Kneeboard also integrates the popular side EVA case from our Centerline Kneeboard. This fold-down EVA case serves as an additional writing surface or storage/display area on the kneeboard.

Small.....P/N 13-25488 ..... ---
Large .....P/N 13-25487 ..... ---

MYGOFLIGHT KNEEBOARD SPORT PRO 11 M4

The MyGoFlight iPad Kneeboard Sport Pro 11 M4, designed for the iPad 11 M4 (2024), combines sleek black polycarbonate with a smooth finish to enhance both protection and usability. Engineered by pilots for pilots, this form-fitting case ensures your iPad stays securely in place. It doubles as a kneeboard with an included elastic strap or can be mounted using the integrated adapter with any MyGoFlight mount. The case is designed for easy access to all iPad ports, buttons, and controls. Two aluminum rails on the underside frame your leg, while the wide elasticized Velcro strap keeps it securely and comfortably attached. When used outside the cockpit, it maintains a stylish appearance. Additionally, four rubber pads on the rails stabilize the case on desks or tables.

P/N 13-25778 ..... ---

MYGOFLIGHT KNEEBOARD / MOUNTABLE SPORT CASE PRO

The iPad Pro 11", Air 10.9"/11" - Kneeboard/Mountable Sport Case Pro is a rugged and durable case specially designed for aviation. With full protection and drop test certification, your iPad will stay safe even in the harshest conditions. The over-molded rubber design provides a secure grip, while the built-in kneeboard passthrough and MYGOFLIGHT adapter allow for easy use on the go. a dedicated storage spot keeps your Apple Pencil secure and charged. The built-in kickstand is infinitely adjustable to your preferred viewing/work angle. The Sport Case Pro is designed with built in venting to keep your iPad cool while in use. Compatible iPads: • iPad Pro 11" Gen 1-4 • iPad Air 10.9" Gen 4-5 • iPad Air 11" Gen 6

P/N 13-25602 ..... ---

JEPPESEN IFR THREE-RING TRIFOLD

The Jeppesen three ring trifold is great for holding approach charts and features three approach chart pockets, collapsible rings, elastic pen / pencil / penlight holders, and valuable IFR flight information the clip board. Includes free U.S. Low altitude planning chart. Size: 10"x 20" open.

Kneeboard/Clipboard.....P/N 13-06956 ..... ---

ASA IFR & VFR KNEEBOARDS

These IFR and VFR Knee- boards are an attractive, light gray, brushed aluminum. Instrument and visual information is clearly silkscreened on the boards so pilots can quickly reference rules at a glance when operating a cyclic or stick. All information on the Kneeboards match current Federal Aviation Regulations. The Kneeboards feature a comfortable, 1.5" wide elastic legband that hugs the leg without binding. Velcro fasteners can be adjusted without removing the kneeboard and fits all leg sizes. A pencil/pen holder is designed into the leg for fast note taking. The Kneeboards also feature a 4-3/4" wide metal clip that is easy to lift and strong enough to hold NOS charts and other necessary papers. Paper-protector elbows secure material, yet papers won't rip when pulled out.

VFR Kneeboards.....P/N 13-06925 ..... ---
IFR Kneeboards .....P/N 13-06930 ..... ---

VFR KNEEBOARD

Jeppesen's VFR Trifold Kneeboard places information at your fingertips. It organizes and holds charts, flight computers/plotters, flashlight, pen, pilot notes and more. An elastic leg strap sewn to the kneeboard holds this unit comfortably in place with a Velcro closure. Additionally, the foam-cradled back allows for added comfort and leg positioning. The metal clipboard includes valuable information for your VFR and IFR flight needs. Also includes a leg strap that allows you to use the clipboard independent of the kneeboard. Designed for superior strength, abrasion resistance and durability.

(Size: 21" x 11½" open.).....P/N 13-06955 ..... ---

FORCE PROTECTOR GEAR KNEEBOARD

Go full electronic with the ability to use an IPad, or old school.

Perfect companion for any COCKPIT OR VEHICLE. "FPG Knee Chocks" lock down the Kneeboard from slipping with less tension on the leg strap. They are adjustable to any size leg and any position needed. Retention strap to keep pages neat and tidy. Removable writing station with a clipboard that you place as needed. Cell phone pocket. Plenty of small item storage with Velcro enclosure.

Color	Part No.	Price
Black	13-20221	---
Multi-Camo	13-20633	---
Coyote	13-20636	---

TRI-FOLD KNEEBOARD

This elongated 3-panel kneeboard accommodates aeronautical charts without additional folding. The center section of the 3-panel cordura-like jacket holds the included brushed aluminum kneeboard in place, while the two side pockets offer storage for charts, notes, a flight computer, pencil, pen and more. Quick VFR reference information is tooled into the brushed aluminum kneeboard offering resources for weather and flight planning, VFR ceilings, visibility, cloud clearance, cruising altitudes, pilot weather reports, light gun signals, a crosswind component graph, and more. A wide, sturdy clip on the kneeboard holds papers on place. The left inside panel of the jacket has two pockets for flight plans and notes, as well as elastic straps for holding a flight computer or other flight accessory. The right hand panel has a see-through pocket for easy chart viewing and storage. The hook-and-loop fasteners on the elastic leg band allow the kneeboard to adjust to a variety of leg sizes. Closed Dims: 10-1/4" Length x 6-1/2" Width. Open Dims:10-1/4" Length x 21" Width **Note**: Includes metal clipboard shown in center of the photo. Does not include E6B Flight Computer or charts in the right and left pockets .....P/N 13-06950 ..... ---

MYCLIP MULTI KNEEBOARD STRAP

The MyClip Multi works on all Apple® iPads including the iPad Pro, iPad Air, iPad Mini and the iPhone 11! The updated product design securely holds almost any tablet with a thickness of .85 inches or less. This innovative product will even hold smartphones over 3 inches in width like the Galaxy **Note**. Uniquely engineered clips will securely hold a bare iPad as well as one in an armored case.

P/N 13-22441 ..... ---

FLIGHT DESK TRI-FOLD KNEEBOARD

Flight Desk Kneeboard greatly improves cockpit organization of charts & accessories. Unlike some other kneeboards with limited utility, will hold sectional charts, a large E6B type computer, and has two elastic loops on either side of the clipboard to hold a goose-neck type flashlight. If the middle loop is not used for a computer, it can be used to hold a handheld transceiver P/N 13-03474 ..... ---

INSTRUMENT MANUAL AND CHARTS BAG

It will hold all your required instrument manuals and charts. This bag has a flap with velcro closure, two handle straps for added strength, and outside pockets perfect for pen and pencil supplies.

Small Dimensions: 9.5"H x 5"D x 6.5" W
P/N 13-19813 ..... ---
Large Dimensions: 9.5"H x 5"D x 7"W
P/N 13-19814 ..... ---

PS

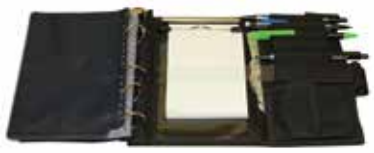
Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

W-2 KNEEBOARD

Kneeboard is made from highly durable and water resistant nylon. Removable strap for the checklist on the left side and two pockets on the right side- one pocket for an E6B and the other for a flashlight. RTwo pencil pockets. RFastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.

P/N 13-19805 ..... ---

W-4 KNEEBOARD



Kneeboard is made from highly durable and water resistant nylon. Removable strap for the checklist on the left side and pencil holders, a small pocket for CEPs, and a larger pocket for an E6B on the right side. An added feature is the clear strap that goes across the clipboard to keep pages form flying around. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip

P/N 13-19806 ..... ---

FLIGHT OUTFITTERS CHART KNEEBOARD

Sometimes all you need is a simple kneeboard for storing and organizing your must-have gear, without weighing down your leg. The Flight Outfitters Chart Kneeboard provides a secure mounting surface without all the bulk of traditional kneeboards. Thick leg strap feeds through a metal buckle to firmly attach the kneeboard to your leg—it will stay in place no matter how rough that dirt strip landing is. Reversible design can be used on your left or right leg, and is small enough to work in airplanes with a center stick. Measures 8" tall x 14" wide when flat yet folds down to only 5" wide, making it easy to stow

P/N 13-23896 ..... ---

EFB CADDY

In a word it is all about "SAFETY"! With the advent of Electronic Flight Bag(EFB) software, Tablet technology and ADS-B receivers, today's GA pilot has access to reasonably priced, portable technology that greatly improves the safety conditions, under which they can now operate. Enhanced situational awareness and reduced pilot workload, both preflight and in-flight, are but two of the several benefits. EFB CADDY was designed to further improve the pilot experience, by addressing the deficiencies found in many of the current Tablet holder products. Secure physical attachment and head-up, unobstructed panel and outside view are critical features.

Description	Part No.	Price
Model: A - Cradle / Size: Large, Height 8.25" - 11.25", Width 7.75" Max., Depth 0.56" Max.	11-14025	---
Model: B - Cradle / Size-Small, Height 8.25" - 11.25", Width 6.80" Max., Depth 0.50" Max.	11-14026	---
Model: C - No Cradle	11-14027	---

SECRET POCKET PHONE CASE GENUINE LEATHER

This travelers accessory is made of lightweight / flexible genuine leather. Capacity for a phone up to 3-1/4" in width x 5" in length. The extended secret pocket 6" in depth fits smoothly along side your hip underneath clothing to easily hide: Passport, Money, Credit Cards, Small Valuables, and much more.

P/N 13-15692 ..... ---

ULTIMATE KNEEBOARD IPAD HOLDERS

The Ultimate Kneeboard iPad® holder has a seven ring design so it will fit both models of the Ultimate Kneeboard®. It is also is designed to fit all models of the iPad® and iPad® mini. The Ultimate Kneeboard iPad® holder is made from the same durable materials as the Ultimate Kneeboard®. It is held in place at each corner with heavy-duty elastic and offers easy access to the Home button and connecter port. Just like the Ultimate Kneeboard®, the iPad® holder comes with a money back guarantee and is made in the USA by folks from Boise, Idaho.

Mini iPad.....P/N 13-16345 ..... ---

TRIFOLD WITH POCKET KNEEBOARD

Kneeboard is made from highly durable and water resistant nylon. Compact kneeboard made with the small cockpit in mind. One pocket on the front, two pockets on the left, two pencil holders, and a plastic pocket on the right. An elastic band to hold a flight computer and a plastic clipboard in the center. When closed, the kneeboard is held together with velcro fasteners. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.

Small Dimensions: 5" x 8" when closed, 14 ½" x 8" when open

P/N 13-19810 ..... ---

Large Dimensions: 7" x 9 ½ " when closed, 20" x 9 ½ " when open

P/N 13-19811 ..... ---

HARPER KNEEBOARDS

FIXED RING ULTIMATE KNEEBOARD™

The fixed-ring model is the most popular kneeboard. The convenience of the snap-open, ring binder design makes it ideal for quickly changing pages, charts and checklists. Pilots flying into multiple airports or flying a variety of planes will find the fixed-ring design perfectly suited for them.....P/N 13-07022 ..... ---

LOOSE RING ULTIMATE KNEEBOARD™

Our loose-ring model has seven independent rings which are not bound together. The result is a kneeboard that molds perfectly to the shape of the pilot's leg. It is ideal for pilots who primarily fly the same airplane in and out of the same airport.

P/N 13-07023 ..... ---

AVIATE PILOT KNEEBOARD

- Removable Clipboard – black non-glaring clip with rubber corners secure your contents on the lightweight but removable durable plastic clipboard which allows you to write on your knee
- Fully Adjustable – easy to use elastic strap adjusts to any size leg and hold strong with Velcro
- Convenient Design – holds pens, pencils, tire pressure gauge and a pocket to hold ear plugs and other small items
- Includes 7 Rings – accommodates your approach plates, checklists, manuals or any other 7 hole pilot documents
- Kneeboard Details – made of rugged canvas, 11.5" wide and flexes around the leg, 8.5" long, clipboard is 5.2" X 8.3"

P/N 13-21477 ..... ---

PS

IPAD KNEEBOARDS – ACCESSORIES

THE APPSTRAP FOR IPAD

Converts the iPad or iPad2 into a pilot kneeboard. iPad™ instantly detachable from leg strap via Velcro™ joint. Great for flight crews who must share or stow device. Change between portrait & landscape effortlessly. Made of high-quality Aluminum & professional grade webbing.
For iPad 2, 3, and 4 & allows for power plug or GPS booster
P/N 11-10399 ..... ---

AIRGIZMOS IPAD PANEL DOCK (GEN 1, 2, & 3)

If you need to mount your iPad in your plane this might be the solution you are looking for. The base mount is designed to be screwed to a panel using a standard instrument mounting holes. The iPad snaps in and is held securely.
P/N 11-10830 ..... ---

FLIGHT OUTFITTERS DELUXE IPAD FLIGHT DESK

The Flight Outfitters Deluxe iPad Flight Desk is perfect for the modern iPad pilot, with built-in flexibility for different missions. The innovative 2-in-1 design incorporates a universal kneeboard design and a custom organizer case. iPad Kneeboard A rigid mounting board is attached to thick, elastic straps to provide a secure surface for an iPad or phone. Three sizes of silicon holders (included) are the perfect size for 9-11" iPads, iPad Mini, and most phones. Attach your iPad in portrait or landscape mode via velcro and use the attached bracket to elevate your device to remove glare.
Three small pockets with elastic straps keep charging cables organized, and the internal pocket is perfect for a backup iPad battery pack. Two loops can hold a stylus and pen, and an included clipboard can be used on the inside or outside of the case. Add the kneeboard for a complete flight desk .....P/N 13-23895 ..... ---

EXECUTIVE IPAD CASE

This is the premium iPad case for the executive aviator on the go. Take it with you on land or in the air. Rotating case - view your iPad in landscape or portrait mode. Landscape folding cover - the cover closes even in landscape mode .....P/N 13-12774 ..... ---

EXECUTIVE IPAD MINI CASE

This is the premium iPad Mini case for the executive aviator on the go. Take it with you on land or in the air. Rotating case - view your iPad in landscape or portrait mode. Landscape folding cover - the cover closes even in landscape mode .....P/N 13-12775 ..... ---

IPAD AVIATION ACCESSORY KITS

This affordable accessories kit contains products you will need to start using your iPad in the cockpit. Our kit includes a Dual Universal XGPS150 receiver, a Genesis iPad nylon kneeboard and case, and a Lonestar 2 amp 12V/24V charger. We supply a premium charger which charges iPads, iPhones, iPods, etc. even during heavy use.
iPad 2 Kit P/N 11-10453 ..... ---

APPSTRAP FOR IPAD AIR

This clip is approximately .75 inches thick. The original AppStrap architecture now with a full skin instead of clips. Works well with both the iPad Air 1 and the new iPad Air 2. Product includes black, form-fitting protective gel case, adjustable leg strap and buckle, and 2 Tilt Pads for glare reduction and stability.
P/N 13-15458 ..... ---

ULTIMATE STAND ALONE MINI IPAD HOLDER

The iPad® mini holder has a seven ring design so it will fit both models of the Ultimate Kneeboard®. There are also two additional grommets which will allow it to fit in a 8.5″ x 11″ organizer/binder. Based on customer feedback to have The Ultimate Kneeboard on one leg and your mini iPad on the other leg, they are pleased to offer The Ultimate Kneeboard Stand Alone iPad® mini holder. It's made from the same durable materials as the Ultimate Kneeboard®. The iPad mini is held in place at each corner with heavy-duty elastic and offers easy access to the Home button and connector port. .....P/N 13-23583 ..... ---

EXECUTIVE IPAD KNEEBOARD KIT

This is the premium iPad kneeboard for the executive aviator on the go. Take it with you on land or in the air. This innovative, 3-in-1 iPad mount can be used as a standalone, or be clipped onto a kneeboard band to be used as a kneeboard. Use the optional RAM adapter and clip onto your RAM mount without changing mounting cases!
P/N 13-12765 ..... ---

EXECUTIVE IPAD MINI KNEEBOARD KIT

This is the premium iPad Mini kneeboard for the executive aviator on the go. Take it with you on land or in the air. This innovative, 3-in-1 iPad mount can be used as a standalone, or be clipped onto a kneeboard band to be used as a kneeboard. Use the optional RAM adapter and clip onto your RAM mount without changing mounting cases!
P/N 13-12766 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

THE APPSTRAP FOR IPAD MINI

The original AppStrap architecture now with a full skin instead of clips. Compatible with the iPad Mini 1, 2, and 3. TPU Skin Protects iPad-mini. Functional & Protective. Instantly share, stow, or reposition **Note**: Product received will be strap & skin only. This is not a kneeboard, only a strap & skin that your iPad mini fits in.

P/N 13-12709 ..... ---

APPSTRAP CONVERSION KIT

Turn any tablet into a kneeboard with our DIY kit! Die cut velcro joint. Compatible with most covers/ skins. Portrait or Landscape. Instantly share or stow.

P/N 13-12953 ..... ---

GENESIS IPAD CLIPBOARD ADD-ON

A sturdy 3001 grade aluminum clipboard is riveted to a soft velvet backing to protect your iPad touch screen. Pen holder at the top. This is an add-on accessory for the genesis and genesis 2 iPad cases. Not a standalone kneeboard.

P/N 13-14734 ..... ---

W-4 IPAD MINI KNEEBOARD FOR USE WITHOUT CASE

Kneeboard is made from highly durable and water resistant nylon. Has a pocket for your E6B, 5 pencils holders, a pouch for your CEPs/earplugs, a removable grommet for your checklist, and a clear plastic strap that goes across your paper to keep them from flying away. One removable flip-up page with two pockets and a clipboard for PPC and notes. The middle of the kneeboard has 4 elastic bands at each corner to hold your mini iPad firmly in place. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip

P/N 13-19808 ..... ---

W-4 IPAD MINI KNEEBOARD FOR USE WITH CASE

Kneeboard is made from highly durable and water resistant nylon. Has a pocket for your E6B, 5 pencils holders, a pouch for your CEPs/earplugs, a removable grommet for your checklist, and a clear plastic strap that goes across your paper to keep them from flying away. One removable flip-up page with two pockets and a clipboard for PPC and notes. The middle of the kneeboard has 4 elastic bands at each corner to hold your mini IPad firmly in place. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip

P/N 13-19809 ..... ---

AIRGIZMOS IPAD 1 / 2 / 3 KNEEBOARD

The AirGizmo iPad Kneeboard allows accessing charts and apps on the iPad or iPad2 while flying easier and safer than ever. Molded plastic and a wide velcro strap allow for a secure, comfortable fit. Fold over tablet holder drops out of the way when not in use. Ability to adjust the angle of the iPad for best viewing angle and the ability to cut down glare. Designed to work with both the iPad and the iPad2. Width: 7.93 in. Height: 9.79 in. Depth: 3.75 in. Weight: 13.1 ounces.....P/N 13-11218 ..... ---

CLASSIC TORCHGRIP®

TORCHGRIP® is a patented, made-in-the-USA, universal computer tablet accessory that functions as both a versatile stand and handle providing secure and comfortable handling of your device. Compatible with all iPads and most other tablets. Its durable and stylish design is ergonomically crafted and lightweight. Every time you set down your tablet, TORCHGRIP® is a stand. The handle rotates 360 degrees allowing multiple viewing angles in both portrait and landscape positions.

Black/Black .....P/N 13-19321 ..... ---
White/Whte .....P/N 13-19322 ..... ---

ASA IPAD KNEEBOARD WITH COVER

The iPad Kneeboard is a versatile case and kneeboard that helps pilots protect and use their iPad in flight and on the ground. The elastic strap secures the case to the pilot's leg for in-flight use. The unique plastic cover keeps the iPad screen safe while maintaining full viewing and complete touch-screen functionality, and opens easily to insert or remove your device. The easel folds to position the iPad at a convenient "wedged" viewing angle; alternatively, it can lay flat. The pocket on the back offers room for papers and maps. Openings are provided for charger and headphone/earbuds. Made of durable fabric with embossed wings. Fits the iPad, iPad 2, and New iPad (iPad 3).

Features: • Easel folds up or down for optimal viewing and pocket provides access to charts and papers • Dock connector / power port accessible with the cover closed • Openings are provided for charger and headphone/earbuds • Fits both iPad, iPad 2, and New iPad (iPad 3) • Pocket on back offers room for papers and maps.

P/N 13-11701 ..... ---

ASA IPAD MINI KNEEBOARD

The ASA iPad mini Kneeboard allows access to the iPad mini while flying, and device protection when outside the cockpit. Made of eco-friendly, top-quality microfiber leather, this kneeboard includes a wide hook-and-loop adjustable strap. A handy clip on the front of the kneeboard will hold a notepad, and there are elastic loops on each side to hold a pencil, pen, and/or stylus. A soft, gray, microfiber interior protects the screen from damage, and flexible corner clips keep the device secure when kneeboard is opened or closed. Dimensions: 5 7/8" W x 8 1/8" H x 3/4" D; opens to 12 1/16" W

P/N 13-24490 ..... ---

MGF IPAD PRO 11 SPORT KNEEBOARD / MOUNTABLE CASE

The iPad Kneeboard/Mountable Case is the perfect aviation kneeboard, mount and everyday case for the iPad. It is designed for the pilot looking to secure their iPad to their leg or for the pilot that prefers to mount their iPad. The black, smooth polycarbonate adds protection and great feel to the iPad. Take your iPad from air to office to home. It is perfect for pilots of all aircraft. This product fits the iPad Pro 11". Mounts Sold Separately.

Features: • Cockpit Ready • Quick Connect • 360° Rotation • Sport Mount Compatible

P/N 13-22347 ..... ---

PS

MYGOFLIGHT FLIGHT BAG PLC PRO 2024 EDITION

The newly redesigned PLC PRO is the latest addition to MyGoFlight's amazing line of flight bags. Made from rugged ballistic nylon, this bag is engineered to fit the lifestyles of aviators and travelers that bring both style and durability. Improvements to this Flight Bag include upgraded padding to the self-standing shell for durability, stowable backpack straps, and a cool matte finish on the metal parts. This flight bag is the ultimate solution for storing and protecting the essentials needed for any destination. Mesh pockets allow you to see your items inside, while a self-standing shell allows for perfect positioning for easy access. The Flight Bag PLC Pro is designed by pilots for pilots to be the ultimate travel companion.

P/N 11-20235 ..... ---

MYGOFLIGHT PLC COMMUTER FLIGHT BAG

The PLC Commuter is the latest addition to MyGoFlight's amazing line of flight bags. Made from rugged ballistic nylon, this bag is engineered to fit the lifestyles of aviators and travelers that bring both style and durability. This is your ultimate grab and go bag built to securely hold all of your flight essentials. This flight bag is the ultimate solution for storing and protecting the essentials needed for any destination. Mesh pockets allow you to see your items inside. The Flight Bag PLC Commuter is designed by pilots for pilots to be the ultimate travel companion .....P/N 11-20198 ..... ---

MYGOFLIGHT IPAD AIR 4 SPORT KNEEBOARD / MOUNTABLE CASE

The iPad Kneeboard/Mountable Case is the perfect aviation kneeboard, mount and everyday case for the iPad. It is designed for the pilot looking to secure their iPad to their leg or for the pilot that prefers to mount their iPad. The black, smooth polycarbonate adds protection and great feel to the iPad. Take your iPad from air to office to home. It is perfect for pilots of all aircraft. This product fits the iPad Air 4. **Note:** Mounts Sold Separately P/N 13-23988 ..... ---

MYGOFLIGHT IPAD MINI 6 SPORT CASE (KNEEBOARD / MOUNTABLE)

The iPad Kneeboard Sport™ is the perfect aviation kneeboard, mount and everyday case for the iPad Mini 6. It is designed for the pilot looking to secure their iPad on either leg, who needs the minimal case, but still wants a very secure fit, or for the pilot that wants to mount their iPad. In black, smooth polycarbonate, the Sport™ adds protection and great feel to the iPad. The iPad Kneeboard Sport™ was designed for pilots by pilots. It is designed to work in aircraft where space is tight or where there is a cyclic, or control stick being used between the legs. It is perfect for pilots of helicopters, sport aircraft, and when there is tight yoke clearance or when mounting is desired. This product fits the iPad mini 6. **Note:** This is the iPad Kneeboard only. Mounts sold separately .....P/N 13-23854 ..... ---

MGF IPAD AIR 1-2 / PRO 9.7 SPORT CASE (KNEEBOARD / MOUNTABLE)

The iPad Kneeboard Sport™ is the perfect aviation kneeboard, mount and everyday case for the iPad Air or Pro 9.7. It is designed for the pilot looking to secure their iPad on either leg, who needs the minimal case, but still wants a very secure fit, or for the pilot that wants to mount their iPad. In black, smooth polycarbonate, the Sport™ adds protection and great feel to the iPad. The iPad Kneeboard Sport™ was designed for pilots by pilots. It is designed to work in aircraft where space is tight or where there is a cyclic, or control stick being used between the legs. It is perfect for pilots of helicopters, sport aircraft, and when there is tight yoke clearance or when mounting is desired. **Note**: This is the iPad Kneeboard only. Mounts sold separately.....P/N 13-19539 .....

MGF NIGHT VISION CLIP

The Night Vision Clip Light is designed to put green, eye protecting light exactly where you need it when you need it. The batteries are replaceable.

P/N 13-12404 ..... ---

MGF ARMORGLAS SCREEN PROTECTORS

When it comes to screen protection, nothing is better than the feel and clarity of pure glass. ArmorGlas™ is like having no screen protector on at all - you won't even realize it's there. ArmorGlas™ is made of premium, ultra-thin tempered glass. It is designed to preserve the feel and clarity of the standard screen on your device while adding a substantial level of protection. ArmorGlas™ is made to protect the screen of your device from fingerprints and scratches and is very effective at absorbing impact to minimize the chance of shattering your display.

Model	Anti-Glare No.	Price
iPad Mini	13-16362	---
iPad Mini 4/5	13-18743	---
iPad 2/3/4	13-16364	---
iPad Pro	13-19554	---
iPad Pro 10.5	13-20668	---
iPad Pro 11	13-22079	---
iPhone X	13-22080	---
iPad Mini 6	13-23857	---
iPad Pro 9.7 / 9.7 / Air 1 / 2	13-16363	---

MGF IPAD PRO 12.9 / 11-13 INCH TABLET KNEEBOARD FOLIO C

The iPad Pro Universal Kneeboard Folio™ C (including clipboard) is the perfect high-quality leather, rotating aviation kneeboard, lapboard and everyday case for your iPad Pro, and all other 11-13" tablets. Now you can bring any 11-13" iPad/Tablet with you into the cockpit of any airplane, train, car or truck where it can be held secure on your knee and lap. High quality, rich leather wraps the outside while soft and protective micro-fiber material lines the inside. The iPad/Tablet is held by four adjustable clips that are attached to a rotating cradle. All of the ports and controls remain accessible so the iPad/Tablet can be charged, synced and controlled when it is in its case.

P/N 13-19537 ..... ---

MGF IPAD MINI UNIVERSAL 7-8 INCH TABLET KNEEBOARD FOLIO C

The iPad Mini Universal Kneeboard Folio™ C (including clipboard) is the perfect high quality leather, rotating aviation kneeboard, lapboard and everyday case for your iPad Mini 1/2/3/4, and all other 7-8" tablets. Now you can bring any 7-8" iPad/Tablet with you into the cockpit of any airplane, train, car or truck where it can be held secure on your knee and lap. High quality, rich leather wraps the outside while soft and protective micro-fiber material lines the inside. The iPad/Tablet is held by four adjustable clips that are attached to a rotating cradle. All of the ports and controls remain accessible so the iPad/Tablet can be charged, synced and controlled when it is in its case .....P/N 13-19535 ..... ---

MYGOFLIGHT IPAD / TABLET LEG MOUNT

iPad Leg Mount – The Ultimate Kneeboard. Now you can tilt and position the iPad or iPad Mini where it is easily seen & operated. Like adding an additional screen to your cockpit. Maintain full visibility of panel information & controls. Rock solid, very comfortable, magnetic latch straps. For airplanes and helicopters or any application where the iPad is to be secured to your leg. Easily rotates between portrait and landscape modes. iPad/Tablet Device Holder (Sold Separately). Images shown of the holders are illustrative.....P/N 13-23713 ..... ---

MGF APPLE CERTIFIED PREMIUM LIGHTNING CABLE (3FT)

This premium Charge + Sync cable makes it easy to connect your Apple portable to a computer, USB charger, or compatible car receiver. It features high end aluminum casing around the heads for added durability. The cable is wrapped in a high quality braided fabric that resists tangles, kinks and knots. **Nylon Sleeve**: The cable is wrapped in a high quality braided fabric that resists tangles, kinks and knots. **Metal Connectors**: High end aluminum connectors ensure you'll have a snug, reliable connection every time. 3 Feet: 3.28 feet of cable. **Lightning Connector**: For use with any iPhone, iPad, or iPod that uses the lightning connector.....P/N 13-19558 ..... ---

PS

MGF FLIGHT BAG PLC LITE

MGF Flight Bag PLC Lite - Created to be the perfect bag for pilots looking for a light iPad ready flight bag. The PLC Lite is a high quality flight bag built to the same high standards as all other MGF products. Designed by pilots to meet the exacting needs of the cockpit environment. The PLC Lite is built from the ground up to be the ultimate solution for storing and protecting the essentials you will need while flying, with a special focus on your most important tool, the iPad. It has a specially designed, protective pouch to hold an iPad, laptop computer or many other electronic flight bag devices.

P/N 13-19545 ..... ---

MGF IPAD FLIGHT BAG PLC SPORT

A smaller version of the Flight Bag PLC Pro is finally here. The Flight Bag PLC Sport. Enough room to carry one headset, an iPad/EFB, a hand held radio, and other gear. Same industry leading quality, in a compact size. Headset Storage: Storage for 1 headset or overnight gear. iPad Storage Pocket: Padded pocket designed to protect the iPad or other tablets. Protects Laptop: Padded pocket can also store and protect up to a 13" laptop. Radio Storage: Large side pocket is designed to hold a hand held radio securely. Mesh Pockets: Interior pockets are made out of mesh to easily locate and access your gear. Water Resistance: Exterior of the bag is made of sail cloth making it water resistant.....P/N 13-18712 ..... ---

MGF FLIGHT BAG PLC PRO TRAVELER

Perfect for an overnight trip or a week out of town the PLC Traveler is tough, lightweight and smart. Engineered from durable sail cloth, this bag comes equipped with multiple pockets for storage, a telescoping handle and easy-rolling wheels that make it a cinch to maneuver. Built from the ground up to be the premium solution to store and protect all your gear while flying and traveling. Designed by pilots for pilots to be the ultimate flight bag for all aviators. This bag gives you the style, storage, organization, compact size and functionality like never offered before.....P/N 13-22025 ..... ---

MGF HEADSET BAG

Micro-fiber lining cleans and protects the screen while the durrable diamond stich fabric on the outside prefents ripping and tearing. The Headset Bag is made out of durable mesh with a soft, padded lining on the inside, perfect for holding anything you don't want scrached: sunglasses, phones, iPads, and eReaders. The drawstring closure makes holding all of your small items secure and easy to find.....P/N 13-12407 ..... ---

MGF FLEX CLIP EXTRA BASE

Flex Clip Mount by MGF. This is the first and only mount that you can secure anywhere you wish with four screws of an AMPs pattern or with semi-permanent VHB adhesive. Since the Flex Clip uses Flex Arms, it is infinitely adjustable so pilots are able to mount their device in the exact position they wish that was thought not possible before.

P/N 13-19528 ..... ---

MYGOFLIGHT FLEX CLAMP COLLAR-ROBINSON CONSOLE BAR

Flex Clamp Collar [Robinson Console Bar] works with the console bar on the pilot side of Robinson R22, R44, and R66 helicopters. The mount secures onto the console bar using the collar and two screws (included). The infinitely articulating and adjustable arm attaches to our Universal Cradle or the iPad Sport Case. Once attached, your device can be viewed in either portrait or landscape mode simply by rotating the device, without having to make any additional adjustments.

1.5 Tube .....P/N 13-24466 ..... ---
1.25 Tube .....P/N 13-24467 ..... ---
1.125 Tube .....P/N 13-24468 ..... ---

MGF PEN HOLDER

Add this self-stick pen holder to your MGF clipboard or any other clipboard to provide a convenient and secure place to store your pen. *** Not designed to work the MGF Mini Clipboard.** Securely hold a variety of pen and pencil sizes with this unique little holder. Attaches with a strong 3M VHB tape.

P/N 13-19562 ..... ---

MGF SPORT™ MOUNT GPS ADAPTER FOR GARMIN PORTABLES

Sport - GPS Adapter is the perfect solution for mounting all Garmin Portable Avionics, as well as any other device that uses the AMPs hole pattern. The Sport - AMPs Adapter securely connects to all Garmin portables including the aera® 660, aera® 796, aera® 795, aera® 510 GPSMAP® 696, GPSMAP® 695, and more. Once the GPS Adapter is connected to the GPS you can quickly and securely mount the portable avionics using any MGF Sport Mount (Sold Separately).....P/N 13-19526 ..... ---

MGF SPORT™ CAMERA ADAPTER

The Sport - Puck Adapter is designed to work with almost any digital camera or any other device that has a 1/4"-20 screw on it. As a mountable, it connects and easily rotates when paried with MGF Sport Mounts. No matter how you use it, the Sport - Puck Adapter meets the demands of pilots and other individuals operating in extreme motion. Compatible with most cameras and devices that have a 1/4"-20 hole on them .....P/N 13-19527 ..... ---

MYGOFLIGHT COMPACT BOLTED QUICK RELEASE

The Compact Bolted Quick Release secures to any solid, flat surface and is compatible with the industry standard AMPs hole pattern. The mount provides maximum stability and reliability. When the base is secured you can slide in the mount and lock it in place using Clip slides. Base measures 1.56" x 1.875".....P/N 13-24296 ..... ---

MGF DUAL MICRO CHARGER

Handles up to 35 Volts! DualMicro is a 12 to 35 Volt airplane/auto charger and an extra charging cable in one convenient bundle. It has two USB ports that can both be used at the same time.

Note: For 12-35 volt DC systems.

P/N 13-15538 ..... ---

MGF KNEEBOARD STRAP

A Strap made to go with MGF kneeboards for additional security while in-flight. This strap is made out of a heavy duty, wide elastic and a generous amount of Velcro to provide long-lasting use and comfortable wear .....P/N 13-19564 ..... ---

MGF SPORT™ MOUNT AMPS SWIVEL

The Sport™ Mount AMPs Swivel is for pilots who want to mount any size iPad or Tablet in any size or type of case to the AMPs bracket found in many jets. This mount comes with a Sport™ Adapter mounting system and an adjustable tilt plate which adds flexibility in how the iPad/Tablet is positioned. The adapter can tilt up to 15 degrees. The iPad/Tablet can rotate between landscape and portrait mode while attached to the mount. All together, this system gives you the ultimate flexibility while keeping spaced used to a minimum.

Note: You must have a Device Holder to use this mount.

P/N 13-19534 ..... ---

MYGOFLIGHT SPORT MOUNT - FLEX SUCTION MINI

Flex Suction Mini - Everything to love from the original Flex Suction, in a compact, easy to transport size. An infinitely articulating and adjustable arm with the ability to hold any iPad or device. Lightweight and easy to configure, this mount is portable and can easily fit in your flight bag or can be positioned and left onboard. Perfect for owners and renters alike.

P/N 11-20205 ..... ---

PS

MGF SPORT™ MOUNT FLEX CLIP

• Fits Monorails sized, 5/16" - 1/2". The infinitely articulating and adjustable arm attaches to the Universal Cradle to hold any iPad or Tablet, or to the iPad Sport Case for a specific iPad fit. This feature makes this mount future proof. Once attached, the iPad can be viewed in either portrait or landscape modes simply by rotating the device, nothing has to be loosened or tightened to make this happen. **Note:** You must have a Device Holder to use this mount.

P/N 13-19518 ..... ---

MGF SPORT™ MOUNT FLEX SUCTION PRO

This one mount can operate as a compact suction cup, allowing a close position to the glass of 3.25 inches. It can also operate as a standard suction cup mount extending to 10.5 inches. The Mount utilizes one vacuum suction cup with a built-in finger pump that informs you if the mount is losing suction. Give it a couple pumps and it is quickly back to full strength. **Note:** You must have a device holder to use this mount.....P/N 13-19509 ..... ---

MGF SPORT™ MOUNT COMPACT SUCTION CUP

The Sport Mount - Compact Suction Cup is the most versatile mounting solution for pilots that would like to install an device on almost any flat, smooth surface. The high strength suction cup twist and locks to provide a secure hold to the windshield or metal panel. The mount is portable and can easily fit in your flight bag or can be positioned and left on-board. Perfect for owners and renters alike. (**Note**: You must have a device holder to use this mount).

P/N 13-19510 ..... ---

MGF SPORT™ MOUNT FLEX DOUBLE SUCTION

This one mount can operate as a compact suction cup, allowing a close position to the glass of 3.25 inches. It can also operate as a standard suction cup mount extending to 10.5 inches. Portable and can easily fit in your flight bag or can be positioned and left on-board. Perfect for owners and renters alike. **Note**: You must have a Sport Case/Cradle to use this mount.....P/N 13-19511 ..... ---

MGF SPORT™ MOUNT FLEX YOKE COLLAR FOR BEECH WIDE YOKES

Attaches to control columns with a diameter between 1 5/8" - 1 3/4". This mount attaches to the thick yoke shaft on Beechcraft aircraft that have two yoke tubes coming out of the panel. **Note**: You must have a Device Holder to use this mount.

P/N 13-19513 .....

MGF SPORT™ MOUNT FLEX GLARE SHIELD

The Sport Mount - Flex Glare Shield is for pilots who want to mount their iPad or other device off of the glare shield of their airplane or similar shelf-like surface. Can be configured to hang down, or push the iPad/Device up above the glare shield. This mount comes with the Generation 3 Sport Adapter. This is a perfect mounting solution in cockpits where space is tight. **Note**: You must have a Device Holder to use this mount.....P/N 13-19514 ..... ---

MGF SPORT™ MOUNT FLEX PANEL

Sport Mount - Flex Panel is the perfect mounting solution for pilots that would like to install a iPad/Tablet directly into their panel. Same hole pattern as existing instrument gear. This is a perfect mounting solution in cockpits where space is tight. **Note**: You must have a Device Holder to use this mount.

P/N 13-19515 ..... ---

MGF SPORT™ MOUNT FLEX STUD

The iPad Mount - Flex Stud is the perfect mounting solution for pilots that would like to install an iPad directly into their panel, such as in many experimental aircraft. The stud secures easily to any hole in the panel for easy mounting. **Note:** You must have a Device Holder to use this mount.

P/N 13-19516 ..... ---

MGF SPORT™ UNIVERSAL CRADLE XL

The Sport™ Universal Cradle XL (10"-13" Tablets) is designed to work with almost any tablet in virtually any case, or no case at all. As a mountable, it connects and easily rotates when paired with MGF Sport Mounts. Compatible with many tablets from 10 inches to 13 inches. .....P/N 13-19521 ..... ---

MGF SPORT™ PHONE CRADLE

Phone Cradle is designed to work with almost any smartphone in virtually any case, or no case at all. As a mountable, it connects and easily rotates when paired with MGF Sport Mounts. Compatible with many smartphone as small as the iPhone 5 and as big as the iPhone 6 Plus (Minimum width = 2 3/8" | Maximum width = 3 15/16").

P/N 13-19524 ..... ---

MGF SPORT™ GOPRO® / GARMIN VIRB ADAPTER

Mounting your GoPro® with the Sport - GoPro® Adapter and MGF Flex Arms allows you the ability to position your GoPro® camera anywhere you would like. MGF Flex Arms are infinitely adjustable so you can mount your GoPro® camera anywhere and everywhere. Something that you are not able to accomplish with any other mounting system. Sport - GoPro® Adapter works with all GoPro® models and all Garmin Virb models.....P/N 13-19525 ..... ---

MGF SPORT MOUNT - FLEX YOKE MOUNT FOR IPAD / ANDROID

The Sport Mount - Flex Yoke is for pilots who want to mount their iPad Sport, iPad Kneeboard Sport™ or Nexus 7 Sport case on a yoke, rail, or support strut. This mount comes with a Sport™ Adapter – Generation 2.....P/N 13-16369 ..... ---

MGF SPORT FLEX SUCTION CUP MOUNT FOR IPAD

The Sport Mount - Flex Suction is for pilots who want to mount their iPad Sport, iPad Kneeboard Sport™ or Nexus 7 Sport case off a glass windshield, side window or other smooth surface. This mount comes with a Sport™ Adapter – Generation 2. For pilots looking for more articulation and distance from the iPad to the mounting surface, choose the Flex Suction EX. .....P/N 13-16370 ..... ---

MGF UNIVERSAL CRADLE SPORT MOUNT

The Sport - Universal Cradle is designed to work with almost any tablet in virtually any case, or no case at all. As a mountable, it connects and easily rotates when paried with MGF Sport Mounts. The arms of the cradle are adjustable via quick release knobs making it easy to insert and remove your tablet. No matter how you use it, the Sport Cradle meets the demands of pilots operating in extreme motion.

P/N 13-16447 ..... ---

MGF SPORT™ MOUNT FLEX YOKE BEECH CENTER COLLAR

Attaches to the retaining clamp (Silver Metal Piece) on the center yolk arm. The way it attaches is by removing the screws that hold the retaining clamp on, putting our mount on top of the retaining clamp, and then securing it with the same screws. **Note**: You must have a Device Holder to use this mount.

P/N 13-19512 ..... ---

MGF SPORT ADAPTER

This accessory is used to mate Sport™ and Sport™ NR cases to any existing RAM mount or RAM equivalent installation that will accept a 1" ball.

P/N 13-12419 ..... ---

PS

GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPHONE 6+ / 7+

The iFDR Panel Mount series is a flush mounting system to easily dock and seamlessly integrate your Apple iPhone 6+ or iPhone 7+ into your aircraft instrument panel -- giving it a clean, professional appearance in an easy to view position! Once installed, the iFDR mount allows your iPhone to be docked in seconds, fully connected to power and audio with built-in cable ports. Removal is just as easy -- just slide, push, and remove!.....P/N 13-18918 ..... ---

GUARDIAN IPAD/IPHONE IFDR PANEL MOUNTS

The iFDR Panel Mount Packages are a flush mounting system to easily dock and seamlessly integrate your existing device into your aircraft instrument panel, giving it a clean, professional appearance in an easy to view position! Once installed, the iFDR mount allows your device to be docked in seconds, fully powered and ready for use, and able to be removed in seconds when done! This package gives you the mount along with a panel mounted single 2.7 amp USB-A port that also features a hard-wired 2.7 amp connection from the rear to power the device mount! This way you can provide power to an external component like a phone or GPS/ADS-B receiver while keeping your device is charged! Choose from a Single USB Round Faceplate or Single USB Square Faceplate. Can be mounted either horizontally or vertically.

Description	Part No.	Price
IFDR Panel iPad Mini Mount Round	13-20270	---
IFDR Panel iPhone 6+/7+ Mount Round	13-20269	---
IFDR Panel iPhone 6+/7+ Mount Square	13-20597	---
IFDR Panel iPhone 6/7 Mount Square	13-20596	---

X-NAUT ACTIVE COOLING MOUNT FOR IPAD PRO 11 GEN 3 - PILOT SERIES

The X-naut 3 Gen Pilot Series Cooling Case for the iPad 11 Gen 1-4, Air 11 (M2), Pro 11" (M4)/10.9" was created to help you work hard and to play even harder no matter what your flying conditions may look like. That's because the iPad protective case is designed to keep your iPad cool and functional during your entire trip, no matter how long the journey may be. The fans, which feature low-noise technology, work to keep the iPad cool, and the latch, which is spring-loaded, keeps the device securely in place. Specifications: Fits: 11 Gen 1-4/Air 11 (M2)/Pro 11-in (M4)/10.9.....P/N 13-25700 ..... ---

X-NAUT ACTIVE COOLING MOUNT FOR IPAD PRO - 10.5

The Active Cooling Mount was created for iPad™ users in extreme conditions.
Works with works with iPad Pro 10.5".
*iPad™, AA batteries and micro USB cord are not included.....P/N 13-21626 ..... ---

X-NAUT ACTIVE COOLING MOUNT FOR IPAD MINI

The Active Cooling Mount was created with the safety of pilots and iPad™ users in mind. Works with iPad™ mini Versions 1 I 2 I 3 I 4. Switch between using Micro USB or power by battery (4AA Mini Version). Battery test button shows status of batteries. Green indicates high battery life, yellow indicates low battery life and red indicates battery replacement. Spring loaded latch makes loading your iPad easy and secure. Low noise fans (26 DBA). Weight: 7 oz (no batteries no iPad™).
Dimensions: 8.3in x 5.6in x 1.7in.
iPad Mini 1-5.....P/N 13-19503 ..... ---
iPad Mini 6 .....P/N 13-24208 ..... ---

GUARDIAN IPAD SMARTPANEL MOUNTS

The SmartPanel Mount for Apple iPads is a flush mounting system to easily dock and seamlessly integrate your existing iPad into your aircraft instrument panel -- giving it a clean, professional appearance in an easy to view position! Once installed, the smartPanel mount allows your iPad to be docked in seconds, fully connected to power and audio with built-in cable ports. Each mount has a built-in Fan Blower (14 or 28V).

Description	Part No.	Price
iPad Pro 10.5 Inch Panel Mount 12V	13-21188	---
iPad Pro 10.5 Inch Panel Mount And USB Package 12V	13-21193	---
iPad Pro 10.5 Inch Panel Mount And USB Package 24V	13-21194	---
iPad Mini Panel Mount Round	13-20270	---

X-NAUT ACTIVE COOLING MOUNT FOR IPAD AIR

The Active Cooling Mount was created with the safety of pilots and iPad™ users in mind. Works with iPad Air™ Versions 1 I 2 I Pro 9.7". Switch between using Micro USB or power by battery (8AA Air Version). Battery test button shows status of batteries. Green indicates high battery life, yellow indicates low battery life and red indicates battery replacement. Spring loaded latch makes loading your iPad easy and secure. Low noise fans (26 DBA) Weight: 9.7 oz (no batteries no iPad™)
Dimensions: 9.17in x 7in x 1.5 in.
P/N 13-19502 ..... ---

PS

GUARDIAN LIGHTING CABLES

Decription	Part No.	Price
Apple MFI Certified Lighting Cable for IFDR Panel Mounts 4-wire 3 Feet	13-18963	---
Apple MFI Cert. Lighting Cable-3	13-18964	---
3.5mm Audio Cable 3 Male Jack	13-18968	---
Braided Leather Apple Lightning USB Charging / Sync Cable for iPad / iPhone - MFI Certified	11-14111	---

X-NAUT iPAD ACCESSORIES

X-NAUT KNEEBOARD KIT

Kneeboard rotates 360° and mounts to your leg with a universally adjustable strap. One size fits all elastic Velcro strap. Mounting hardware included. Work with both Mini and Air versions. *Active Cooling Mount not included.

P/N 13-19504 ..... ---

X-NAUT CARRYING CASES

Carrying Case comes in iPad™ Mini & iPad™ Air sizes. Adjustable and removable shoulder strap. Large zippered pocket houses the Active Cooling Mount. A small outer Velcro pocket stores accessories. X-naut embroidered logo.

*Battery pouch and Active Cooling Mount not included.

Mini.....P/N 13-19506 ..... ---

X-NAUT SINGLE SUCTION MOUNT

The X-naut single suction cup base is designed to have a stronghold on glass and non-porous plastic surfaces. Infinite adjustment to obtain optimum viewing angles.

P/N 13-22318 ..... ---

X-NAUT DRONE BRACKET CONTROLLER

• Compatible with the DJI Mobile Device Holder for Phantom and Inspire Remote Controller • Rugged Metal Bracket- Powder Coated • Metal Bracket Can be Used as a Handheld Fixture

Note: iPad Cooling Case not included.

P/N 13-22325 ..... ---

PEAVEY TABLET MOUNTING SYSTEM III

• Suitable for use with most tablets and smartphones (with outside dimensions ranging from 4.7" to 9") • Touch points securely hold your tablet in place without any damage • Sturdy, durable high quality frame construction • Quick setup and release • Universal clamp securely mounts to microphone stands and keyboard stands (with tubed diameters of up to 28mm) • Multi-angle adjustment allows universal positioning of the tablet or smartphone • Threaded adapter allows direct mounting to a microphone stand.....P/N 11-19146 ..... ---

X-NAUT FLEXGRIP ROTATING HANDSTRAP WITH KICKSTAND

Take your iPad and iPad Cooling Case everywhere with the X-Naut Rotating Handstrap with Kickstand. Engineering specifically for the X-Naut, this gives you the flexibility to work, travel, and play in extreme conditions.

Supports your iPad in both landscape and portrait mode.

Note: *iPad Cooling Case not included.

P/N 13-22315 ..... ---

X-NAUT HOODMAN COCKPIT TABLET VISOR IPAD AIR

Eliminate glare and see your screen better with The Hoodman Cockpit Visor!

The Hoodman Cockpit Visor universally mounts in portrait or landscape orientation, with a size for the iPad mini and another for normally-sized iPads.

Attaching via adhesive Velcro strips, the visors are easily added and removed from your X-naut Pilot Series iPad Cooling Case. Simply attach the Velcro strips to the perimeter of your case and you're ready for flight!

Mini.....P/N 13-22321 ..... ---

Standard (Air, Pro, etc.).....P/N 13-22320 ..... ---

X-NAUT HOOD FOR IPAD MINI / AIR / PRO

Monitor Hood - iPad Mini and Air/Pro 9.7" from HOODMAN

The X-naut & HoodMan aviator hood for drone pilots mounts to your iPad Mini and Air/Pro 9.7 for improved outdoor viewing.

The HAV2 aviator hood for drone pilots mounts to your Mini and Air/Pro 9.7" for improved outdoor viewing. The bottom panel of the aviator hood has a unique pierceable feature to aid in touchscreen access. Two adjustable mounting straps make hood mounting quick and easy. A horizontal safety strap prevents iPad from falling forward out of its mount. Hood mounts on the front of iPad Mini and Air/Pro 9.7"

Mini.....P/N 13-22322 ..... ---

9.7" .....P/N 13-22324 ..... ---

10.5" .....P/N 13-22323 ..... ---

X-NAUT CLAW YOKE MOUNT

Mount your X-naut Active Cooling Case to a yoke shaft or exposed tube. The Claw base fits yoke shafts measuring 0.625" to 1.5" in diameter. Infinitely adjustable.

P/N 13-22317 ..... ---

G1000 TRAINING COVER

G1000 partial panel simulators are used for training to fail certain instruments.

The product is held in not using a static cling but a backing of micro suction cups, allowing you to use this for years to come, including a storage case when not in use.

P/N 13-22141 ..... ---

STEAM GAUGE COVER

Steam gauge cover is a high-quality inoperable cover using a micro suction cup pad on the back. Great for flight training or covering an inoperable gauge.

P/N 13-22142 ..... ---

PS

FLYBOYS iPAD CASES AND MOUNTS

PIVOT A20A CASE - FITS IPAD AIR (4TH AND 5TH GEN.), IPAD PRO 11-INCH (1ST THRU 4TH GEN.) - BLACK

The PIVOT A20A is an elegant, robust case designed specifically to accommodate the key features of iPad Air (4th and 5th gen.) while maintaining full compatibility with the iPad Pro 11-inch (1st, 2nd, 3rd and 4th gen.). With numerous enhancements, this is the best PIVOT case yet. It offers unbeatable 360-degree protection from drops, impacts, and scratches, while the detachable PIVOT Screen Cover provides superior screen protection in transit and while connected to any PIVOT mount. The improved 2nd generation PIVOT Kickstand is reinforced with internal ribs for maximum strength and durability and provides 120-degrees of adjustability to support a wide range of viewing angles. Improved openings for the iPad's wireless antennas facilitate flawless reception for cellular, Wi-Fi and Bluetooth

P/N 11-19544 ..... ---

PIVOT PRO 105 CASE - FITS IPAD PRO 10.5-INCH, IPAD AIR (3RD GEN.) - BLACK CASE / BLACK CLIP

The PIVOT PRO 105 features full compatibility with the iPad Pro 10.5-inch and iPad Air (3rd gen.) With one-piece construction, an inner shock-absorption layer, and a hardened shell, leverage your iPad to its maximum potential while ensuring unparalleled protection for your device whether you are at home, on the road or in your aircraft. It securely connects to any PIVOT mount using the patented and exclusive PIVOT Click-Connect mounting system. The system is simple and intuitive: slide the case onto the mounting plate through the Click-Connect mounting channel until the integrated clip secures it in place with a "CLICK." Remove the case by simply pressing the top of the clip to release it and slide the case off of the mount .....P/N 11-19542 ..... ---

PIVOT CASE FOR IPAD MINI 4/5 GENERATION - BLACK BODY / BLACK CLIP

The PIVOT MN5 is a versatile and rugged case for the iPad Mini (5th gen.) and iPad Mini 4. It fully supports all the features of these iPad models, including the fingerprint scanner, cameras, microphone, and more, ensuring that you will be able to get the most out of your iPad while providing the best protection from damage of any case on the market. With one-piece construction, all polycarbonate top-plate, inner shock-absorption layer, and a hardened shell, leverage your iPad to its maximum potential while ensuring unparalleled protection for your device whether you are at home, on the road or in your aircraft. It securely connects to any PIVOT mount using the patented and exclusive PIVOT Click-Connect mounting system .....P/N 11-19539 ..... ---

FLYBOYS PIVOT A35A ATLAS SERIES FOR IPAD MINI (6TH GEN.)

The PIVOT A35A is the newest case from PIVOT, with updated design to protect the iPad Mini (6th gen.) and iPad Mini (A17 Pro). Connect the A35A case quickly and securely to mounts and accessories using the patented PIVOT universal mounting system. Be confident with excellent 360-degree protection from drops, impacts, and scratches. The upgraded PIVOT Folio Cover provides full-coverage screen protection when in transit and increased impact resistance on corners and edges. Additionally, the Folio Cover offers quick-viewing support in landscape orientation with a selection of viewing positions. Use the Folio Cover in combination with the PIVOT Kickstand for viewing with enhanced stability and a wide range of adjustable viewing angles. The updated PIVOT Kickstand is thicker and reinforced with internal ribs and locking tabs for increased strength and offers 120-degrees of adjustability in landscape orientation, as well as table-top viewing in both landscape and portrait orientation.

The PIVOT A35A supports the features and accessories for the iPad Mini (6th gen.) and iPad Mini (A17 Pro). The removable PIVOT Pencil Edge securely holds the Apple Pencil Pro* in place. Specialized case features facilitate flawless Wi-Fi, GPS, and LTE signal reception.

P/N 11-19539 ..... ---

PIVOT CLAW MOUNT

With incredible clamping power from the Tough-Claw Clamp, the PIVOT Claw Mount will not lose its grip, ensuring that your device remains exactly where you mounted it regardless of flight conditions. The small clamp works on round, square, and odd-shaped rails and bars ranging from 0.625" to 1.5" in diameter, and flat surfaces ranging from 0" to 1.14" in thickness. It is also available with an extended arm for applications that require a little more reach. The medium clamp works on round, square, and odd-shaped rails and bars ranging from 1" to 1.875" in diameter, and flat surfaces ranging from 0" to 1.6" in thickness.

P/N 11-19558 ..... ---

PIVOT YOKE CLAMP MOUNT

Introducing the PIVOT Yoke Clamp Mount, an unbeatable yoke-mounting solution. It is available in two sizes to a wide range of aircraft. The Small Clamp fits aircraft with yoke rods between 1-2.1 inches in diameter, such as those found in Cessna aircraft. The Large Clamp fits aircraft with yoke rods between 2-3 inches in diameter, such as those found in the Beechcraft Bonanza and other popular aircraft.

Small Clamp .....P/N 11-19561 ..... ---
Large Clamp .....P/N 11-19560 ..... ---

PIVOT DOUBLE SUCTION CUP MOUNT - 0.75-INCH BALL ARM

This mounting solution is highly recommended for helicopter applications. The most secure mount available to handle the most demanding operational environments. With dual locking suction cups, this mount provides peace of mind that regardless of acceleration forces or vibration inherent to certain aircraft, the mount will remain securely attached throughout the entire flight. Originally designed to meet the demands of the military and the helicopter community, and now available for all pilots who require maximum grip from their mount.

19cm Arm .....P/N 11-19549 ..... ---
22cm Arm .....P/N 11-19550 ..... ---

PIVOT DOUBLE SUCTION CUP MOUNT - 1-INCH BALL ARM

This mounting solution is highly recommended for helicopter applications. Double Suction Cup Mounting: Provides extra grip for applications where two suction cups are desirable, such as on highly curved surfaces or in aircraft that are prone to high vibration levels, such as helicopters. Complete Mounting Solution: Includes all hardware necessary to mount a PIVOT case in virtually any aircraft, vehicle, desktop, or other non-porous surface. Dual PanaVise Locking Suction Cups: Nearly unbreakable grip thanks to the mechanically activated dual-mode suction cups. PIVOT Click-Connect: Quickly and securely attaches to any PIVOT case. FAA Approved: Tested and approved by the FAA for use in-flight .....P/N 11-19548 ..... ---

HIGH DEFLECTION FLUSH PERMANENT MOUNT

The High-Deflection Flush Permanent Mount offers a durable, low profile, permanent mounting option, with a high-deflection adapter that provides additional flexibility and device viewing angles. Can be mounted to certain aircraft yokes, instrument panels, or anywhere else that make sense based on the application. Depending on the aircraft and under what rules it is operated (Part 121, 135, etc), installation of this mount may require engineering and/or regulatory authority approval.

P/N 11-19556 ..... ---

PPK PLATE WITH STEEL AMPS PLATE

The Flush Permanent Mount offers a durable, low profile, permanent mounting option. Can be mounted to certain aircraft yokes, instrument panels, or anywhere else that make sense based on the application. Depending on the aircraft and under what rules it is operated (Part 121, 135, etc), installation of this mount may require engineering and/or regulatory authority approval .....P/N 11-19555 ..... ---

PIVOT SHORTY SINGLE SUCTION CUP MOUNT

Compact version of the popular 809PPK Single Suction Cup Mount, ideal for applications where space is limited. Attaches to any non-porous surface with unshakable grip due to the Locking Suction Cup. Adjustable viewing angles .....P/N 11-19545 ..... ---

PIVOT SHORTY SINGLE SUCTION CUP MOUNT

Compact version of the popular 809PPK Single Suction Cup Mount, ideal for applications where space is limited. Attaches to any non-porous surface with unshakable grip due to the Locking Suction Cup. Adjustable viewing angles .....P/N 11-19546 ..... ---

PS

FLYBOYS iPAD CASES AND ACCESSORIES

PIVOT LOW PROFILE SINGLE SUCTION CUP MOUNT

The PIVOT Low Profile Suction Cup Mount similar the popular PIVOT Classic Suction Cup Mount, featuring an improved suction cup locking mechanism that allows an even greater range of adjustability and flexibility. Attaches to any non-porous surface with unshakable grip due to the powerful aviation-grade Locking Suction Cup. Both the mounting plate and arm are adjustable to provide the ideal device viewing angle for almost any application.

P/N 11-19547 ..... ---

PIVOT LOW PROFILE KNEEBOARD ADAPTER

Transform a FB3316 FlyBoys Reversible Kneeboard or FB1316 FlyBoys Classic Kneeboard into an Electronic Flight Bag Leg Mount with the PIVOT Low Profile Kneeboard Adapter and PIVOT case. The molded base and rotating mounting plate offer the slimmest, most secure design for mounting a device on the pilot's thigh. The kneeboard insert is a folding clipboard replacement. Just insert into the clipboard pocket and feed the map strap under and through the mounting plate.....P/N 11-19551 ..... ---

PIVOT LEG STRAP

Compact, streamlined, and ergonomic, the PIVOT Leg Strap securely mounts any PIVOT case to the pilot's leg, while providing a wide range of adjustability. Includes two adjustable leg straps to ensure a comfortable fit, while the locking tab and textured underside ensures the leg strap remains securely in place through all phases of flight. The included belt tether provides extra security by keeping the leg strap firmly in position, even while walking .....P/N 11-19552 ..... ---

REVERSIBLE EYELET STRIP

The Eyelet Strip for the FlyBoys Reversible Kneeboad can serve as a replacement for the Eyelet Strip that is included with the Reversible Kneeboard, or as an additional hot-swappable eyelet strip that allows pilots to quickly and easily switch between checklists or other publications. Helps keep checklists, inflight guides, and more, organized and ready to switch as mission requirements dictate. Simply snap the buttons together on both sides when affixing to the kneeboard, and press along the entire strip to set it in place.....P/N 13-24448 ..... ---

REVERSIBLE KNEEBOARD

The unique reversible design accommodates all pilots, left and right-handed, and can be configured to suit the pilot's preferences and mission requirements. All pouches and pen pockets are removable and secured in place with hook and loop fasteners. The durable 600D fabric ensures years of trouble-free use in the most demanding operational environments. Like the FlyBoys Classic Kneeboard, the FlyBoys Reversible Kneeboard features seven eyelets for securing checklists, plastic checklist pages, in-flight guides, and more. The 5 x 8" clipboard can secure standard approach plates. The clipboard can also be removed to accommodate PIVOT Low Profile Kneeboard Adapter (sold separately) for mounting any devices protected by a PIVOT case. The FlyBoys Reversible Kneeboard is the kneeboard of choice for military and civilian pilots everywhere.....P/N 13-24444 ..... ---

FLYBOYS REVERSIBLE KNEEBOARD ZIPPER POUCH

Add additional storage to the FlyBoys Reversible Kneeboard with the Zipper Pouch. Ideal for FOD prevention by offering storage for small items such as earplugs, extra batteries, headphones and more. The jam-resistant zipper ensures easy opening and closing. Loop fasteners on the front of the pouch allow other FlyBoys Reversible Kneeboard accessories to stack on top of the Zipper Pouch for maximum utility and convenience. P/N 13-24447 ..... ---

XL CHECKLIST RING BLACK

Note: Sold as a pack of 5

Designed to accommodate thicker checklists, the FlyBoys XL Checklist Rings are 2.25 inches when locked, compared to 1.50 inches for the standard-sized FB1000 Checklist Rings, and feature the FlyBoys-exclusive stainless steel locking mechanism. The ring is constructed from heavy duty monofilament plastic, ensuring years of trouble-free use in the toughest operational environments.

Black.....P/N 13-24430 ..... ---

Opaque.....P/N 13-24431 ..... ---

CHECKLIST RING XXL

Note: Sold as a pack of 5

Designed to accommodate even the thickest checklists, the FlyBoys 7" XXL Checklist Rings are 2.5 inches when locked, featuring a FlyBoys-exclusive stainless steel locking mechanism. The heavy duty steel core is PVC coated, ensuring years of trouble-free use in the toughest operational environments.

P/N 13-24432 ..... ---

CHECKLIST RING 1.75 IN DIAMETER BLUE

The classic, combat-tested FlyBoys Checklist Rings that have been in widespread use throughout the military for many years, and are the #1 checklist ring in use by the US Air Force. Designed to accommodate standard-size checklists, the FlyBoys Checklist Rings are 1.75 inches when locked, and feature the FlyBoys-exclusive stainless steel locking mechanism. The ring is constructed from heavy duty monofilament plastic, ensuring years of trouble-free use in the toughest operational environments.

P/N 13-24428 ..... ---

CHECKLIST RING BRAIDED STAINLESS CORE CLEAR

Designed to accommodate standard-size checklists, these FlyBoys Checklist Rings incorporate the same features of the popular FB1000 FlyBoys Checklist Rings, with a PVC-coated braided stainless steel ring for maximum strength and durability. The result is an ultra heavy-duty ring that should last a lifetime in the toughest operational environments. These rings are 1.75 inches when locked, and feature a FlyBoys-exclusive stainless steel locking mechanism.

Made in the USA .....P/N 13-24429 ..... ---

LEG STRAP

The FlyBoys Belt Loop Leg Strap secures the FlyBoys Reversible Kneeboard, preventing it from slipping while walking around or exiting the aircraft. Attaches to the MOLLE attachment loops on the back of the Reversible Kneeboard.....P/N 13-24445 ..... ---

DELUXE PEN LOOP

The FlyBoys Deluxe Pen Loop is the highest quality, most versatile and most comfortable means to help pilots prevent FOD in the cockpit due to dropped pens or pencils, and keeps writing implements at the ready for times when it may be necessary to copy information with little to no notice. It is fully adjustable and will fit most hands, is ambidextrous and perfect for right and left-handed pilots, and the pen holder pivots to support a wide-range of angles.

P/N 13-24440 ..... ---

CHECKLIST BOOK JEPPESEN 5.5X8.5IN

The FlyBoys Jepp Checklist Book is designed to accommodate 8.5 x 5.5 inch Jeppesen charts and to provide extra space for larger checklist pages. Also accommodates standard letter sized pages (8.5 x 11 inch) that are folded in half. Constructed from the same high quality frosted plastic as the standard FlyBoys Checklist Book, the FlyBoys Jepp Checklist Book is extremely durable, heat and cold tolerant, and capable of providing years of trouble-free use in the most demanding operational environments while providing superior protection for its contents. Includes 25 plastic pages ..... P/N 13-24443 ..... ---

PUBS BAG F-16 VIPER BLACK

Specifically designed in cooperation with active F-16 squadrons for the F-16 Pubs Bin, the FlyBoys F-16 Viper Pubs Bag fits perfectly in the F-16 cockpit. Flight-tested and aircrew approved, with countless flight hours logged. Keeps flight publications secure, organized, and conveniently within reach during flight. Find out why the FlyBoys F-16 Viper Pubs Bag is the in-flight publications storage option of choice for F-16 pilots everywhere, and order yours today ..... P/N 13-24433 ..... ---

MISSION PUBLICATIONS PUBS BAG - OLIVE

FlyBoys most popular pubs bag, the FlyBoys Regular Pubs bag is rugged, versatile, and easy to use. Combat tested, with countless flight hours in a myriad of different aircraft, this PubsBag is ideal for organizing and storing checklists, charts, approach books, headsets, and more for easy access in-flight. Despite it's compact appearance when empty, the Regular PubsBag offers plenty of storage. The main storage compartment expands up to 5.5 inches, and features an interior divider for organizing contents. The front and rear compartments also expand, giving the entire bag the ability to expand from just 1 inch thick when empty, to 8.5 inches when fully loaded. The sides of the bags feature a dual-pen holder on one side, and a flexible side pocket on the other, perfect for storing a water bottle, sunglasses, a flashlight, and more ..... P/N 13-24435 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FLYBOYS GEAR FOR PILOTS

FLY BOYS PUBS BAG

Top opening flap gives access to the main pockets. Additional smaller external pockets are located in the front, rear as well. Handy for smaller items or for sliding enroute charts and maps for quick access. Top, front and back are secured with sturdy Velcro™. Pocket on one side for a water bottle or sunglass case. Slots on the opposite side for 2 pens or pencils. The most popular choice of most fighter and trainer pilots no matter what the airframe. Also, an excellent option for civilians looking for a no frills - priced right bag. Measures 8 1/2" x 11" x 1" empty. Fully loaded it will expand out to 8 1/2" wide! Black FB1020....P/N 13-05566 ..... ---

T-6 NAVMASTER PUBS BAG

The FlyBoys T-6 NavMaster SaddleBag is absolutely a must-have for all T-6 student pilots and instructor pilots. Working directly with the instructors at Sheppard AFB, the FlyBoys team designed this exclusive bag to provide the ideal product for transporting and storing flight publications, while greatly enhancing safety of flight. The bag is designed for precise installation on the glare-shield, allowing student and instructor pilots to access publications without going "heads down" during critical phases of flight, and without causing any obstruction of their view outside the cockpit. Organize and pre-position necessary publications in the low-profile side-by-side compartments. No T-6 student or instructor pilot should consider flying without the FlyBoys T-6 NavMaster SaddleBag. .....P/N 13-24449 ..... ---

T-38 PUBS BAG

Specifically designed for the AT/T-38, with countless flight hours spent developing, testing and optimizing the design for AT/T-38 pilots. The resulting FlyBoys AT/T-38 Pubs bag is a quantum leap ahead of the traditional government-issued rubber-canvas T-38 pubs bags.

P/N 13-24437 ..... ---

FLY BOYS HELMET BAG

420 Denier Cordura Nylon with 1/2" cloth poly-fill to cushion your helmet. Heavy duty nylon zipper - resists snags. Two interior pockets WITH VELCRO CLOSURE that fit your DTC, VTR tapes, sunglasses or water bottle. This super tight knit nylon shell is extremely water resistant and provides superior protection for YOUR expensive equipment. Oversized from standard issue versions, it is superior for helmets with with NVG or HMS mounts! Two NEW pockets for smaller items. Adjustable shoulder strap fitted with a gripping contouring rubber shoulder pad. Inside Dimensions (FLAT): 19 1/2" Wide 20" Tall.

Blue .....P/N 13-05571 ..... ---
Black.....P/N 13-05572 ..... ---
Green.....P/N 13-05573 ..... ---

FLY BOYS IFR/VFR KNEEBOARD

Features seven eyelets for securing checklists, plastic checklist pages or your in-flight guide - (every base has different spacing.Includes the new flexible plastic clipboard (FB1060).Eyelets also correspond to JEPPESEN approach plates and chart protectors! Folded: 6.5" X 1.5" X 9.5" Unfolded: 10" X 8.5" X 1 Writing Surface Area: 8" X 5"

Blue .....P/N 13-05568 ..... ---
Black.....P/N 13-05569 ..... ---
Green.....P/N 13-05570 ..... ---

FLYBOYS REMOVE BEFORE FLIGHT KEY CHAIN

This nylon strap streamer with the REMOVE BEFORE FLIGHT rubber patch is an instant reminder of the real warning flags that hang off of airplanes on the flight line. They're supposed to be visible and easy to find during the walk-around inspection. Well, now you won't have to "walk around" your house or fish through your gym bag trying to find it!

P/N 13-05626 ..... ---

FLYBOYS CHECKLIST RINGS

Durable. Unbreakable. Multi-Purpose. Safe. Opaque nylon ring to hold your checklists and in-flight guides. Or use them for outdoor use where metal rings would rust or wear out. Patented ball-lock design to prevent FOD out on the flight line. The nylon ring is very low resistance as well. Once they are closed, they stay closed. When closed, they are a 1.5" diameter ring. Opened, they stretch to 5". For most applications 4 rings is plenty for keeping your checklists or inflight guides secure. 10 per pack.

Opaque.....P/N 13-05621 .....**---/ Pack**
Black.....P/N 13-08644 .....**---/ Pack**
Red.....P/N 13-08643 .....**---/ Pack**

FLYBOYS CHECKLIST PAGES

Heavy-uty plastic FlightCrew checklist pages. Sturdy construction extends the life of these pages. Easy to use at made at a thickness that helps prevent the pages from becoming brittle or tearing in cold environments.

Pages are top loading and are great for protecting your local approaches or condensed aircraft checklist. No covers included.

Sheet Size: 8" X 5" .....P/N 13-05627 ..... ---
Bulk back (25 Pk.) w/ Covers .....P/N 13-05629 ..... ---
Duty Covers For Checklist Pages Only .....P/N 13-22013 ..... ---

OVERSIZED CHECKLIST PAGES

These are great if you are ready to start putting originals in the pages instead of shrunken copies! As you can see, a full size Jeppesen chart slides right in! Now your mission data cards fit, your target photos can get more detail in them, and your attack cards slide right in without making a trip to the copier to shrink or the paper cutter to trim! These are the same construction as the regular, just bigger. Great in extreme temperatures and long lasting. Spacing on the holes matches up with the FlyBoys KneeBoard with Eyelets and Jeppesen charts.Size is 5 1/2" X 8 1/2" - really makes a difference.

Sheet Size: 8-1/2" X 5-1/2".....P/N 13-05628 ..... ---

EXTRA TALL PAGES FOR BIG CHECKLIST

Heavy duty plastic FlightCrew checklist pages. Sturdy construction leads to a long life. Easy to use but heavy enough to not get brittle or tear in extremely cold environments. Pages are top loading and are excellent for protecting your local approaches or condensed aircraft checklist. USABLE interior dimensions: 5"x11", overall width including checklist ring holes 5 7/8"

Sheet Size: 5" X 11".....P/N 13-05630 ..... ---

FLYBOYS HARD PLASTIC COVE SET FOR EXTRA PAGES

The new Cover Set for the FB2203 pages are great. They are perfect for protection of the pages as well as providing structure for these tall pages. Without these covers, they tend to sag due to their height. Buy as many pages as you need, as many cover sets as you need. Sheet Size: 5" X 11" .....P/N 13-05632 ..... ---

OVER SIZED FLIP CHART PAGES

Over sized top loading pages with three ring holes in the top for those checklists and situations that flow better than the normal "book format." Dimensions: 9.25" x 6".

Sheet Size: 8" X 5".....P/N 13-05633 ..... ---

FLYBOYS MAPSTRAP THIGH STRAP

adjustable to fit just about anyone and features a see-through strap with a healthy portion of hook-and-loop to keep paperwork secure. The leading and trailing edges of the lower strap feature no-slip PVC material to help keep the strap secure on your leg.....P/N 13-14943 .....

FLYBOYS PIVOT CASE

Fits iPad Air 13-inch (M2), iPad Pro 13-inch (M4), and iPad Pro 12.9-inch (5th-6th gen) with updated design features to provide the best protection. Connect the A27A case quickly and securely to mounts and accessories using the patented PIVOT universal mounting system. Be confident with excellent 360-degree protection from drops, impacts, and scratches. Provides full-coverage screen protection when in transit and increased impact resistance on corners and edges. PIVOT Kickstand is thicker and reinforced with internal ribs and locking tabs for increased strength and offers 120-degrees of adjustability in landscape orientation, as well as table-top viewing in both landscape and portrait orientation. Includes The PIVOT Pencil Grip securely stores the Apple Pencil Pro and similarly sized styluses. Specialized case features facilitate flawless Wi-Fi, GPS, and LTE signal reception.

iPad Air M2 13" Black Case/Black Clip.....P/N 11-20430 ..... ---
iPad Air M2 13" Clear Case/Black Clip.....P/N 11-20433 ..... ---

PS

IFR TRAINING HOODS

BLOCKALLS TRAINING GLASSES

Designed by pilots for pilots. Blockalls™ resolve problems with existing view limiting devices. Weighing in at just under 1oz, it's easy to forget you are wearing them. Engineered to easily penetrate the seal of your headset eliminating the hassle of having to remove it first and can be worn for extended periods of time without discomfort, thanks to the soft rubber nose piece and streamlined temple tips. Tailored off center viewing also keeps more of your time inside the flight deck rather than outside. Recommended by AOPA/ Flight Training.

Description	Part Number	Price
Black	13-06240	---
Silver	13-06241	---
CFI Right Seat	13-20135	---
Helicopter	13-18969	---

JIFFYHOOD

A lightweight plastic hood that does the job inexpensively, Jiffyhood stows rolled up in a flight case, or even in your pocket. Has an adjustable elastic headband for comfortable fit.

P/N 13-03457 ..... ---

Description	Part No.	Price
Clear Lens Fog 1.0	13-05004	---
Clear Lens Fog 1.5	13-05005	---
Clear Lens Fog 2.0	13-05006	---
Clear Lens Fog 2.5	13-05007	---
Clear Lens Fog 3.0	13-05008	---
Tint Lens Light Mirrored Tint Fog 1.5	13-05009	---
Tint Lens Light Mirrored Tint Fog 2.0	13-05010	---
Tint Lens Light Mirrored Tint Fog 2.5	13-05011	---
Tint Lens Tinted Fog 1.5	13-05012	---
Tint Lens Tinted Fog 2.0	13-05013	---
Tint Lens Tinted Fog 2.5	13-05014	---

THE HOODY

Provides a complete view of even the most sophisticated instrument panel. Weighs less than 2 oz. Stores easily in a flight bag with the flaps folded in. The Hoody® fits most caps. No hooks, no clips, just slips on and off. Easily molds to the bill of your favorite cap .....P/N 13-12753 ..... ---

HORIZON HALO IFR HOOD

• Seamless Compatibility with Glasses: Wear your prescription glasses or sunglasses comfortably without any compromise. • Minimalist Design: Say goodbye to straps, clips, buttons, and hinges. Our design eliminates all small parts that can break or interfere with your headset adjustment, providing a hassle-free and reliable training tool. • Quick and Easy Adjustment: Transition in and out of the hood effortlessly by simply adjusting your hat. • Reflective and Matte Coatings: The reflective outer coating reduces heat retention, keeping you cool and comfortable. • Unparalleled Comfort: The Horizon Halo VLD never touches any part of your body, providing an exceptional level of comfort. Train longer and more effectively without any discomfort or pressure points. • Lightweight and Durable: Made from strong yet lightweight material, the Horizon Halo VLD is built to withstand the rigors of regular use while remaining easy to wear. Its robust construction ensures longevity, making it a valuable investment for your training arsenal. • Vision Unaffected by Scarring or Scratching: Unlike traditional goggles, the Horizon Halo VLD maintains its clarity and functionality even if it gets scarred or scratched. Train with confidence knowing your vision will always be uncompromised.

P/N 13-25603 ..... ---

CLOUD-EEZE™ IFR TRAINING GLASSES

Developed in order to balance the training value of a view limiting device without further limiting the pilot from being able to read his/her charts. Old Foggies™ blend of precision fogging and custom powered corrective lenses allows for the precise amount of the instrument panel viewing without any view of the horizon. Old Foggies™ are available in customizable powers with no need for a prescription. Available in Clear and Light Mirrored Tint (a reflective coating that eliminates glare without further limiting visibility). Available Powers: 1.5, 2.0, 2.5

Cloud-eeze Clear Lens.....P/N 13-05015 ..... ---
Cloud-eeze Tint Lens .....P/N 13-05016 ..... ---

OLD FOGGIES™ IFR TRAINING GLASSES

Developed in order to balance the training value of a view limiting device without further limiting the pilot from being able to read his/her charts. Old Foggies™blend of precision fogging and custom powered corrective lenses allows for the precise amount of the instrument panel viewing without any view of the horizon. Old Foggies™ are available in customizable powers with no need for a prescription. Available in Clear and Light Mirrored Tint (a reflective coating that eliminates glare without further limiting visibility). Available Powers: 1.5, 2.0, 2.5

Description	Part No.	Price
Clear Lens Fog 1.0	13-05004	---
Clear Lens Fog 1.5	13-05005	---
Clear Lens Fog 2.0	13-05006	---
Clear Lens Fog 2.5	13-05007	---
Clear Lens Fog 3.0	13-05008	---
Tint Lens Light Mirrored Tint Fog 1.5	13-05009	---
Tint Lens Light Mirrored Tint Fog 2.0	13-05010	---
Tint Lens Light Mirrored Tint Fog 2.5	13-05011	---
Tint Lens Tinted Fog 1.5	13-05012	---
Tint Lens Tinted Fog 2.0	13-05013	---
Tint Lens Tinted Fog 2.5	13-05014	---

JEPP SHADES

Replaces bulky, hard-to-use instrument training hoods. The improved design allows better student/instructor interaction. The Cockpit proven design works conveniently under headsets and the universal adjusting strap reduces pressure on the ears and temple. The Velcro™ strap fits comfortably and flip-up lens allows convenient IFR/VFR flight transition. The high quality polycarbonate lens is impact resistant.....P/N 13-404311 ..... ---

FOGGLES

A creative solution to the problems caused by wearing a large hood on your head. Foggles fit and feel like glasses, but the opaque frosting on the top and sides let you see only the instrument panel. Your out the window view is always foggy. Wear them with headsets and microphone with no interference or discomfort. They come with a protective carrying case and weigh only two ounces.

Clear .....P/N 13-06500 ..... ---
Yellow .....P/N 17-00039 ..... ---

SUPER HOOD

Ideal with eye glasses or headsets it slides in under the headset without relinquishing control of the aircraft and it can be instantly removed at any time for a safe approach or landing. Blocks outside reference but provides a full panel view to reduce vertigo. Light weight (3 oz.) and comfortable.

P/N 13-30200 ..... ---

IFR TRAINING GLASSES

Polycarbonate Lenses (UV Protected). Adjustable frames High brow area to prevent “peeking”. Opaque frosting to simulate actual IFR conditions. Protective carrying bag included.

P/N 13-12050 ..... ---

VIBAN

Weighs only 2 oz., making it easy to put on and take off during flight. Provides a perfect view of the instrument panel while providing complete occlusion forward and to the side. Even more, ViBAN folds compactly to fit in its own durable case and is easily stored in your flight bag.

Without Nosepiece .....P/N 13-02022 ..... ---
With Nosepiece .....P/N 13-02023 ..... ---

IFR FLIGHT TRAINING GOGGLES

IFR flight training goggles with 0.2mm lens.....P/N 09-05847 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AIRCRAFT LOG BOOKS

AERO PRODUCTS AIRCRAFT LOGS

Permanent, hard cover, logs with leatherette cover printed in gold. Pages are updated to current FAA requirements. Generous line spacing. Size: 5.75"x7.75"; 74 pgs; Green cover. Comprised of 9 sections: Aircraft Description, Installed Equipment, Major Alterations, Life Limited Parts or Overhaul Requirements, AD or Factory Bulletin Compliance Record, Altimeter and Static System Checks, Radio and Electronic Checks, Maintenance Record (FAR 43.9), Inspection Record (FAR 43.11-91.217).

AL-12P Soft Cover ..... P/N 13-04670 ..... ---

ASA AIRCRAFT LOG BOOKS

Designed to keep records of the entire aircraft in order: inspections, tests, repairs, alterations, ADs, service bulletins, and equipment additions, removals or exchanges.

SA-1 soft cover-hunter green; 7.25"x 4"; 64 pgs
P/N 13-32375 ..... ---

SA-2 Hard cover-Hunter Green; 7.75"x 5-5/8"; 96 pgs.
P/N 13-32384 ..... ---

ASA AIRCRAFT FLIGHT LOG/ LOGBOOK (SP-FLT)

Spiral-bound and perfectly sized to fit in an aircraft glove box or chart pocket, this logbook is a quick reference to the recent history of the airplane so pilots have immediate access to the airplane's records. ..... P/N 13-03163 ..... ---

PLANEVIEW AIRCRAFT FLIGHT LOGS

Compact and can be easily stored in a glove box or side pocket. You only have to use the categories that are important to you. The owner of a Piper Cub would not use the logbook to the extent that a Piper Mirage owner/operator would, but it can easily accommodate the needs of both aircraft. Multiple pilots can use the book, so it can be used in an aircraft that is used in partnerships, fight schools, charter and many other operations where there are a number of different pilots flying the aircraft.

Single engine log ..... P/N 13-01946 ..... ---
Multi-engine log ..... P/N 13-01947 ..... ---

AIRCRAFT TECHNICAL LOG POST BINDER

Basic Binder:Single and twin-engine airplanes have fewer maintenance logs which can be easily managed with these basic Chicago-screw type binders. This binder can hold four to eight maintenance logs, enough for the typical twin, with plenty of space remaining. These high density poly binders are fuel and solvent resistant, almost indestructible, and will protect your tech logs in any shop environment. Binder package includes envelope for service tags and airworthiness forms ..... P/N 13-12324 ..... ---

EAA EXPERIMENTAL AIRCRAFT - AIRFRAME LOGBOOK

General Aircraft Record, Record of Ownership, Initial Condition, FAA Airworthiness Inspection pages. Entry pages that the owner fills in the information. Soft Cover 54 pages. Revised 2012. This logbook was developed to meet the special requirements of experimental aircraft .... P/N 13-12860 ..... ---

CULHANE AME PERSONAL LOGBOOK

This Culhane aviation training product AME personal logbook in hardcover format, fully meets CARs requirements. Those wishing to qualify for a Canadian Aircraft Maintenance Engineer license must successfully complete approved maintenance tasks appropriate to the rating sought in accordance with Part V of the CARs. This AME personal logbook is durable with a 4 mm textured imitation leather hardcover and Smyth-sewn binding. Also includes a bookmark ribbon. 128 pages, measures 5.75" X 8.75".
P/N 13-18988 ..... ---

AERO PRODUCTS ENGINE LOGS

Permanent, hard cover, logs with leatherette cover printed in gold. Pages are updated to current FAA requirements. Generous line spacing. Overall dimensions: 5.75"x 7.75"; 74 pages; Red cover. Comprised of 8 sections: Engine Description, Installed Record, Life Limited Parts or Overhaul Requirements, AD or Factory Bulletin Compliance Record (propeller or rotor only), Repair and Inspection Record (propeller or rotor only)

EF-5 Hard Cover ..... P/N 13-32390 ..... ---
EL-13P Soft Cover ..... P/N 13-03811 ..... ---

ASA ENGINE LOG BOOKS

Keep track of engine inspections, tests, repairs and alterations, airworthiness directives, manufacturers' mandatory service bulletins & equipment removal or exchange. Color: Burgundy

Hard Cover (7.75" x 5-5/8") 96 pages ..... P/N 13-32382 ..... ---
Soft Cover (7.25" x 4"). 64 pages ..... P/N 13-32380 ..... ---

EAA LOGBOOKS

Engine Log ..... P/N 13-02253 ..... ---
Propeller Log ..... P/N 13-02255 ..... ---

ASA AIRCRAFT FLIGHT LOG

The ASA Flight Log is the perfect tool for aircraft owners and aircraft flown by multiple pilots to keep track of the care and use of an individual aircraft. Spiral bound and perfectly sized to fit in an aircraft glove box or chart pocket. Logbook pilots will have quick reference to the recent history of the airpance without digging through those usually kept in the maintanance hangar .... P/N 13-03163 ..... ---

ASA PROPELLER LOGBOOK

Record data for hub & blade inspections, repairs and alterations, airworthiness directives, & factory bulletins. Soft cover, Black, 7-1/4" x 4", 20 pages.
P/N 13-32370 ..... ---

ASA AVIONICS LOG BOOK

Includes entries for avionics equipment, VOR accuracy, transponder & ELT checks, AD & SB compliance, maintenance records. Soft cover, blue/gray, 7.25"x4", 64 pgs ..... P/N 13-02315 .....

ASA AMT LOG BOOK

Designed for Maintenance Technicians, IA-qualified mechanics, and students to log training and educational requirements, work performed, and experience for the purpose of tracking for future certification, recurrence, employment applications, school records, or insurance applications. Plastic coil binding stays open on current page. Soft cover, 6 1/2" X 11", 192 pages.
P/N 13-02313 ..... ---

AIRCRAFT JOURNEY LOG

This is the full-size, hard-cover format (8.5" x 11") new Journey Log. 25% more pages! It has been designed to meet the requirements of the Canadian Aviation Regulations. As permitted by the CARs. There is now a page for Weight & Balance data at the front of the log. When open, the Journey Log pages lie flat to allow for easy data entry ..... P/N 13-12323 ..... ---

AIRCRAFT TECHNICAL LOG SECTION 1 AIRFRAME

The Airframe Log (Section 1) is used to record details of airframe flight hours and related maintenance tasks. Three-hole drilled for keeping in a ring binder or Tech Log Book. Vary the number of engine and prop volumes for multi-engine aircraft. The 5 sections are ordered separately, depending on the number of engines, props, etc. Each tech record can be bound with all the others into the Tech Log Binder to make up the complete aircraft Technical Record. When bound together, the entire log is almost indestructible, yet each record can be removed easily for updating at any time.

Log Section 1 Airframe ..... P/N 13-12325 ..... ---
Log Section 2 Record Of Installations ..... P/N 13-12326 ..... ---
Log Section 3 Engine ..... P/N 13-12327 ..... ---
Log Section 4 Propeller ..... P/N 13-12328 ..... ---
Log Section 5 Component ..... P/N 13-12329 ..... ---
Log Post Binder ..... P/N 13-12324 ..... ---

PS

PILOT LOG BOOKS

JEPPESEN PROFESSIONAL LOGBOOK

This professional log book from Jeppesen, measuring 6-1/2" x 11" is constructed of sturdy, easy-to-read ledger paper & includes an elegant cover.

P/N 13-21728 ..... ---

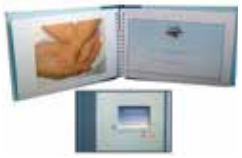
JEPPESEN PROFESSIONAL EUROPEAN LOGBOOK

Complies with JAR 1.080 regulations for logging flight time in Europe. handles 10 years of data. Size: 17.1 x 28.6 cmP/N 13-02212 ..... ---

JEPPESEN PILOT LOGBOOK

Our 96-page permanent record offers large flight time category spaces, arranged according to FAA regulations. Printed on "easy-eye" green pages that resist "bleed through". Size: 8-5/16" x 5-5/16"

P/N 13-21732 ..... ---



LITTLE PILOT LOGBOOK

The Little Pilot Logbook is the perfect gift for the aviation enthusiast. Record treasured stories and precious favorites, display adorable pictures and store mementos in this spiral bound 8.75" x 5.75" hard cover book that lays flat for easy entry and portable enough to carry with our on your next journey. This keepsake will be treasured not only by the parent but also by the future aviator that receives it as a record of childhood memories of flight.

P/N 13-08051 ..... ---

STUDENT PILOT LOGBOOK

This Logbook is designed for Student Pilots preparing for Private, Sport, and/or Recreational Pilot licenses. The student's learning progress is comprehensively tracked from his first flight to his last prior to his completion ride. This Logbook was designed for 14 CFR Section 61 (FAR Part 61) flight training requirements using 14 CFR Section 141 (FAR Part 141) documentation methods. There are upwards of fifty (50) critical areas of airmanship presented and tracked per flight. These areas range from take-offs, flight maneuvers, to landings. Discussion time is also tracked along with ground school briefing subjects. The Student Pilot and Flight Instructor can quickly identify problem areas or areas which do not need to be stressed to help the student in progressing towards the license.

P/N 13-12957 ..... ---

CANADIAN LOGBOOKS

A reprinted version of the now defunct Transport Canada AME log book.

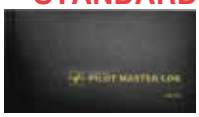
Description	Part No.	Price
Professional Large Logbook Black	13-12345	---
Small Student Logbook Black	13-12346	---
Pilot Training Record Helicopter Logbook	13-12348	---
Pilot Training Record Logbook	13-12347	---

STANDARD LOGBOOKS

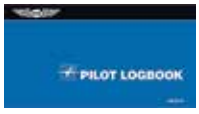
Standard Layout spacing allows for organized handwritten entries. Large Pages Allow for multiple entries per page. Pre-punched for easy 3 Ring Organizing.

Description	Part no.	Price
Single Airframe Logbook	13-18059	---
Single Engine Logbook	13-18060	---
Single Prop Logbook	13-18061	---
Single Avionics Logbook	13-18062	---
Single Engine Logbook Kit	13-18063	---
Twin Engine Logbook Kit	13-18064	---

STANDARD PILOT MASTER LOG BLACK



The finest and most verstile logbooks for aviators. ASA's logbooks have been "The Standard" of the industry for over 30 years and comply with the FAA's recordkeeping requirements. With so many options, there is a logbook that's right for you. Versatile, easy-to-use and flexible enough to fit any pilot's needs, student or ATP. Columns provide standardization, but are flexible enough to allow pilots to customize to fit their needs. Summary pages allow pilots to track experience, aircraft types, currency, medical dates, flight review, and more for quick reference. Hard cover, black, 11" x 6-1/2", 278 pages.....P/N 13-32392 ..... ---



PILOT LOGBOOK (ASA-SP-10)

Blue, soft cover, 7-3/4" x 4-1/8", 16 pages. Ideal as a pilot's first logbook and for introductory flight give-away. The finest and most verstile logbooks for aviators. ASA's logbooks have been "The Standard" of the industry for over 30 years and comply with the FAA's recordkeeping requirements.....P/N 13-05670 ..... ---

GLEIM PILOT LOGBOOK

The Gleim Pilot Logbook provides detailed entries for all inflight information, sections for certificates, ratings, and operating privilege endorsement section, table of contents, room for up to 450 entries, and much more. High quality paper and hard cover binding.

112 pgs. 5"x9.....P/N 13-01822 ..... ---

CULHANE PILOT LOGBOOK

This Canadian pilot logbook by Michael Culhane fully meets CARs requirements and can be used by student pilots through professional pilots alike having all of the proper columns for flight times, dual, PIC, copilot, single engine, multi-engine, cross country etc. Page count: 160 pages with room for 852 separate entries. Actual size is 6 1/4" X 9 1/4".....P/N 13-17634 ..... ---

ASA STANDARD UAS OPERATOR LOG

The Standard UAS Operator Log meets the needs of civilian, military, hobbyists, and professional operators alike so that critical flight details can be tracked. It provides record-keeping for flight operations of small and large unmanned aircraft systems (UAS) or unmanned aerial vehicles (UAV), remote-control aircraft (R/C), remotely piloted aircraft (RPA), and drones.

Color: Grey .....P/N 13-18544 ..... ---

DOGGY LOG BOOK

An inexpensive way to record your dog's adventures for posterity. Contains 22 pages of flight entries and one page for other notable "endorsements".

Measures 6" x 4.25" with a soft cover.

P/N 13-23688 ..... ---

FLIGHT SCHEDULE LOG

Essential to smooth dispatching, features include: a replaceable perpetual aircraft/instructor entry panel; standby request section; and time in 15-minute blocks. Charcoal Gray binder is 17-1/4" x 13-5/8" with 15" x 12" pages for easy viewing. 60 pages included, refill packs available.

P/N 13-02308 ..... ---

FLIGHT SCHEDULE REFILL PACK - Can be used over and over with this 60-day refill.

P/N 13-02309 ..... ---

PS

PILOT LOG BOOKS

STANDARD PILOT LOG BLACK

The finest and most verstile logbooks for aviators. ASA's logbooks have been "The Standard" of the industry for over 30 years and comply with the FAA's recordkeeping requirements. With so many options, there is a logbook that's right for you. Versatile, easy-to-use and flexible enough to fit any pilot's needs, student or ATP. Includes all instructor endorsements. Hard cover, black, 8" x 4 1/2", 100 pages.

Black.....P/N 13-32365 ..... ---
Burgundy .....P/N 13-32360 ..... ---
Pink.....P/N 13-18545 ..... ---

STANDARD PILOT LOG

The finest and most verstile logbooks for aviators. ASA's logbooks have been "The Standard" of the industry for over 30 years and comply with the FAA's recordkeeping requirements. With so many options, there is a logbook that's right for you. Versatile, easy-to-use and flexible enough to fit any pilot's needs, student or ATP. Includes all instructor endorsements.....P/N 13-32355 ..... ---

PROFLIGHT STUDENT PILOT LOG BOOK

Here is a great way to record a first flight experience for yourself or friends. The "Student Pilot Logbook' has a page for recording a name, address, airport and instructor or pilot's name. It has 4 standard pilot log book pages for recording all of the standard flight information. It has 2 pages of Instructor Endorsements and the 'Notes Section' on the last page is a great place to record first impressions. With room for 32 flight entries and a place to record Instructor Endorsements, these logbooks are great for students, flight schools, or those who like to give their guests a way to record their flight. Softcover. Size: 4"x 7 3/4".

Single.....P/N 13-10445 ..... ---
13 Pack .....P/N 13-10446 ..... ---

ASA STANDARD EASA FCL-COMPLIANT PILOT LOG

The EASA FCL-Compliant Pilot Log meets European Aviation Safety Agency record keeping requirements and complies with Flight Crew Licensing rules, EU-FCL.050. A profile page in the front of the logbook provides room to include personal info such as licenses held, date issued, license number, ratings, and aircraft type ...P/N 13-21068 .....

ASA DRONE LOGBOOK

This Drone Logbook is the perfect place for hobbyists and drone operators to begin recording their flight time and experience. Log flight or mission details including date, make & model of aircraft being flown, aircraft identification, takeoff location, landing location, aircraft category (multi-rotor, single rotor, fixed wing), flight conditions, types of operating time, instruction received, PIC time, number of flights, number of takeoffs and landings, and total duration of flight. There is also a column to record special remarks related to the mission. A ground instruction log and maintenance log are also included, as well as a summary page to record flight time specific to make, model, dual instruction, and PIC time. Gray, soft cover, 7-3/4" x 4-1/8", 16 pages.

P/N 13-22748 ..... ---

CULHANE CANADIAN AME LOGBOOK

This AME personal logbook designed by Michael Culhane ATPL BSc BA JD is logically organized based on CARs requirements with separate sections for M1/M2, Avionics (E) and Structures (S) ratings, along with separate columns for completion dates and certifications by the supervising AME. Additional sections are provided for personal data, education, training and employment history.....P/N 13-18041 .....

MASTER LOGBOOK CASE

Rugged and water-resistant canvas, the SP-30 Pilot Logbook Cover protects a pilots most valuable time. The SP-30 Pilot Logbook Cover fits The Standard® Pilot Log (SP-30, sold separately) and most other logbooks measuring 7.75 x 4 inches. The SP-30 Logbook Cover is made of rugged and water-resistant 600D canvas, and maintains a sleek and professional appearance all while providing ultimate protection to your valuable flight history. Once the log is full, the cover slides off and onto a new logbook. P/N 13-25591 ..... ---

ASA PILOT LOGBOOK COVER SP-57

Rugged and water-resistant canvas, the SP-57 Pilot Logbook Cover provides ultimate protection to a pilot's most valuable time. The SP-57 Pilot Logbook Cover fits The Standard® Pilot Log (SP-57, sold separately) and most other logbooks measuring 8.5 x 5.25 inches. The SP-57 Logbook Cover is made of rugged and water-resistant 600D canvas, and maintains a sleek and professional appearance all while providing ultimate protection to your valuable flight history. Once the log is full, the cover slides off and onto a new logbook.

P/N 13-25590 ..... ---

ASA PILOT MASTER LOGBOOK COVER SP-6

Rugged and water-resistant canvas, the SP-6 Pilot Master Logbook Cover protects a pilots most valuable time. The SP-6 Logbook Cover fits The Standard® Pilot Master Log (SP-6, sold separately) and most other logbooks measuring 11 x 6.5 inches. . Made of rugged and water-resistant canvas, the SP-6 Pilot Master Logbook Cover maintains a sleek and professional appearance, all while providing ultimate protection to a pilot's most valuable time. The SP-6 Logbook Cover is made of rugged and water-resistant 600D canvas, and maintains a sleek and professional appearance all while providing ultimate protection to your valuable flight history. Once the log is full, the cover slides off and onto a new logbook. P/N 13-25589 ..... ---

MASTER LOGBOOK CASE

Durable nylon logbook cover sized to hold master logbook, charts, and other aviation essentials. Loop forpen or pencil, hook and loop closure, clear pockets for license and medical certificate. 7.5"x12"; hold logbooks up to 6.5"x11".

P/N 13-02311 ..... ---

FLIGHT OUTFITTERS BUSH PILOT LOGBOOK CASE

These rugged logbook cases will have you thinking of taildraggers and dirt strips every time you log a flight. Durable canvas with thick, genuine leather closures smells as good as it looks. The spacious interior has plenty of pockets for organizing all of your important documents.

• Large Measurements: fits logbooks up to 11.5" long by 6.5" tall.
• Small Measurements: fits logbooks up to 9" long by 5" tall.

Large .....P/N 13-23893 ..... ---
Small.....P/N 13-23894 ..... ---

LOG BOOK COVERS

These nylon logbook covers are very light weight but cover and protect your logbook very effectively. The nylon material is extremely durable and is washable. The cover features a holder for two pens and a velcro pocket on the back for licenses, gas receipt, and other documents.

Color	Size	Description	Part No.	Price
Black	Medium	JEPP	13-04402	---
Black	Medium	ASA	13-04403	---
Blue	Medium	JEPP	13-04405	---
Black	Large	JEPP	13-04411	---
Black	Large	ASA	13-04411	---
Black	Large	Sporty's/Stafford	13-04412	---
Blue	Large	JEPP	13-04413	---
Blue	Large	ASA	13-04413	---
Blue	Large	Sporty's/Stafford	13-04414	---
Red	Large	Sporty's/Stafford	13-04416	---

LOGBOOK ENDORSEMENT STICKERS

Can be used for Flight Reviews and Instrument Proficiency Checks, and comply with FAR 61.56 and FAR 61.57 on PIC recent flight experience and flight reviews. Each sticker measures 2" H x 4"L. 10 stickers per sheet on white paper.

P/N 13-06585 ..... ---

PS

BRIGHTLINE FLIGHT BAGS

BRIGHTLINE B2 COMPUTE BAG

The B2 Compute starts with the 2" Center Section, which is designed to hold 13" laptops. Add a Front and Rear End Cap and you have an extraordinary laptop bag. The Front End Cap allows you to store items such as power cords, backup drives, flash drives, digital cameras, smart phones, tools, keys, etc. Meanwhile, the Rear End Cap allows you to store your manilla folders and documents. This can be used daily or you can attach the 2" Center Section to any other FLEX module. For example, you can zip it in between the Front Bag and the Rear Bag when traveling. This bag also includes the Portfolio Handle which can be attached to the Front End Cap. This will only be used when you decide to remove the Center Section Two and zip the Front End Cap and the Rear End Cap together to make a "Portfolio Bag".

P/N 13-11848 ..... ---

BRIGHTLINE FLEX B18 HANGAR FLIGHT BAG

A Flight Bag or Travel Bag that can handle all your gear. Adaptable by adding or removing center sections as needed. Eight different bags can be built with the included modules. Eight bags for the price of one. Designed primarily for aviators who need a Pilot Flight Bag to pack multiple overnight items, such as clothes, shoes, coolers, etc., the B18 HANGAR fits the bill when maximum space is required. Also excellent for those in the Law Enforcement and Emergency Medical field. The B18 is 13.5" x 10.5" x 22" with interior storage capacity of 18 inches. (And remember, it is a soft bag so it can expand slightly in every direction.)

P/N 13-19654 ..... ---

BRIGHTLINE SIDE POCKET BRAVO

The Side Pocket Bravo is a small radio pocket designed for the small aviation radio. There is also room for extra batteries and smaller items.

P/N 13-11987 ..... ---

BRIGHTLINE SIDE POCKET ALPHA

The Side Pocket Alpha is a radio pocket that is designed to hold a large radio or water bottle. The zipper conceals an expansion flap. P/N 13-11986 ..... ---

BRIGHTLINE FRONT END CAP

This is the Front End Cap that mimics the front of the Front Bag. It is 13.5" x 10.5" x 1.5". The Front End Cap is designed to hold your cell phone, wallet, Multi-Tool, cords, cables, etc. It is not designed to be used alone as the zippers are exposed and could be damaged. Works well with a Rear End Cap.....P/N 13-11984 ..... ---

CADDYCAN JR. PORTABLE TRASH CAN

Caddycan® is a soft sided receptacle originally designed to store trash while you recreation. In today's climate we feel it's critical to leave the environment in tact once we're done enjoying it. Caddycan® has a patented technology and design that properly secures trash and/or other goods allowing the content to be discarded/removed in an appropriate location. Its retractable insert assures the user their trash/goods are secure. Once full and when ready…simply unzip the lid and empty. There are no tools to mount and equipped with industrial velcro strapping mechanism which attaches to a stable base of the user's choice where ever they are. In addition, it has a practical and adjustable carrying strap for convenience and other optional attachments as well. Its weather resistant heavy duty denier design makes it ideal for outdoor uses such as camping, boating, hunting, golfing, biking…you name it! Caddycan® floats, can also free stand and collapsible for easy storage.

P/N 13-25659 ..... ---

BRIGHTLINE SIDE POCKET DELTA

The Side Pocket Delta is a double pocket designed to provide greater outside storage with a larger pocket. Installs onto any two side-by-side attachment bays. Even bridges the gap between two modules.

P/N 13-11989 ..... ---

BRIGHTLINE SIDE POCKET CHARLIE

The Side Pocket Charlie is a pen pocket designed to hold pens and pencils in flight. In addition, it will hold eyeglasses and larger markers in the pocket behind the slots.....P/N 13-11988 ..... ---

BRIGHTLINE FLEX PACK CAP REAR

This specialized Rear End Cap turns any BrightLine Bag into a backpack (with limitations). This End Cap has backpack straps built in, but doesn't look like a backpack when the straps are not in use. It's easy to deploy the straps in less than 20 seconds. Use both shoulders to carry the load and be hands free when necessary.

P/N 13-18166 ..... ---

BRIGHTLINE REAR END CAP

The Rear End Cap is designed to mimic the outside of the Rear Bag. It is used to finish the exposed rear area of a bag, center section, or end cap by zipping on to the exposed area. By adding a Rear End Cap, not only do you add functionality, you protect the exposed zipper, preventing possible damage. The Rear End Cap is 13.5" x 10.5". The Rear End Cap does not come with a Main Handle or a Shoulder Strap.

P/N 13-11985 ..... ---

BRIGHTLINE CENTER SECTION 11 INCH

The CS11 was designed primarily for pilots that frequently travel overnight. It will swallow several changes of clothes, a 13" laptop with room for binders and documents, or a small cooler. The CS11 is 13.5" x 10.5" x 11". (And remember, it is a soft bag so it can expand slightly in every direction.) The CS11 comes with a handle and a shoulder strap.....P/N 13-11983 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BRIGHTLINE FLIGHT BAGS

BRIGHTLINE FLAT CAP FRONT

The FLAT CAP REAR attaches to the Rear Surface of all Center Sections as well as directly to a Front End Cap.
The FLAT CAP REAR module offers one flat pocket on the outside, and one flat half-height slip pocket on the inner surface of the module. The primary outer pocket is accessed from the top and has a cover flap that is secured with Velcro. This where you'll likely store your iPad (as long as it's not in a thick case), or a manilla folder or two for some documents, or a magazine.

P/N 13-21550 ..... ---

BRIGHTLINE FLEX B-ZERO SLIM

The B0 SLIM is obviously the thinnest possible FLEX SYSTEM configuration. The "iPad bag" because works so well as an ultra-thin computing and personal bag - a "man purse" if you will.
The B0 is simply the POCKET CAP FRONT and the FLAT CAP REAR modules zipped together. It has no definable interior storage dimensions since it is just two End Caps put right against each other, but the flexible nature of the parts allows one-half inch to three-quarters inch of flat items to fit inside between the modules.

P/N 13-21546 ..... ---

BRIGHTLINE POCKET CAP REAR

PCR: The POCKET CAP REAR module offers a variety of pockets organized into three "main" pockets, each one with two "secondary" pockets, for a total of nine small pockets on the Rear panel. There is also a flat half-height slip pocket on the inner surface of the module where you can stow an important document or two.
The key benefit of this PCR module is that you can put a second set of exterior pockets on the Rear of your bag, to go along with the ones that you already have on the Front of your bag. More pockets - More organization.

P/N 13-21549 ..... ---

BRIGHTLINE CENTER SECTION TWO - TALL

The CS2-Tall is designed for carrying 15" laptops, iPads etc.
This center section is 15" x 10.5" x 2" and it can attach to all of the FLEX System modules including other center sections.
This item does not include a Main Handle or Shoulder Strap. If building a custom bag, make sure your order includes one or both.
The CS2-Tall can be used in any configuration and is not designed to be used by itself due to the possibility of damaging the exposed zippers. You will always want to have something (either another module or an End Cap) zipped onto both sides of the CS2-Tall to protect the zippers.

P/N 13-21551 ..... ---

BRIGHTLINE CENTER SECTION 2 INCH

The CS2 is designed for carrying 13" laptops, iPads and assorted documents. This center section is 13.5" x 10.5" x 2". Not designed to be used by itself due to the possibility of damaging the exposed zippers. Can be added to any configuration to add storage for your 13" laptop. Simply zip the CS2 into a B10, B16, or B25 to get added storage for your 13" laptop, iPad, or folders and documents.....P/N 13-11981 ..... ---

BRIGHTLINE CENTER SECTION THREE

The Center Section Three offers 3 inches of storage and easily carries 13" laptops, some 14" laptops, tablets as well as documents, folders, clipboards, etc.
There is one small accessory pocket on the side panel, accessible with a vertical zipper. It's a good size for pens, markers, highlighters, or spare reading glasses.
The Main Compartment of the CS3 has locking zipper sliders .....P/N 13-21552 ..... ---

BRIGHTLINE CENTER SECTION FOUR

The Center Section Four offers four inches of storage depth and comes with a divider shelf attached to the side walls of the main compartment with Velcro. This shelf can be positioned right where you need it or removed for full access storing one or two headsets or GPS.
This item does not include a Main Handle or Shoulder Strap. If building a custom bag, make sure your order includes one or both. The interior of the CS4 is 13.5" tall, 10.0" wide, 4.0" deep.

P/N 13-21553 ..... ---

BRIGHTLINE CENTER SECTION 5 INCH

The CS5 was developed primarily for our IFR Flight Customers. With the B10, you get enough storage for VFR to light IFR flying. By adding a CS5, you can now add IFR Binders and documents, without changing the setup of the B10. Also, perfect for a couple days worth of clothes, two more sets of headsets, or a 13" laptop. The CS5 is 13.5" x 10.5" x 5". (And remember, it is a soft bag so it can expand slightly in every direction.)

P/N 13-11982 ..... ---

BRIGHTLINE FLEX SIDE POCKET ECHO

This new SIDE POCKET ECHO is an infinitely-adjustable insulated water bottle pocket. It will securely hold anything from a small 0.5 liter size, up to a huge 1.5 liter size. The pocket can be adjusted to exactly the size of any container in that range. Secures with two clips on two straps. Allows one-hand removal and replacement of the bottle... P/N 13-18167 ..... ---
Shoulder Strap Ext. Set..... P/N 13-19489 ..... ---
Flex Holster..... P/N 13-19495 ..... ---
Flex Array Base Plate ..... P/N 13-19493 ..... ---
Flex Array Kit - Tall ..... P/N 13-19492 ..... ---
Flex Array Kit - Short..... P/N 13-19491 ..... ---
Bag Luggage Works Adapter Set..... P/N 13-19490 ..... ---

BRIGHTLINE ACCESSORIES

Description	Part No.	Price
Brightline Main Handle	13-21554	---
Brightline Shoulder Strap	13-21556	---
Brightline Adapter Loops (2)	13-21557	---
Brightline Adapter Kit	13-21558	---
Brightline D3 Clips (4)	13-21559	---
Brightline Slim Handle	13-21560	---
Brightline Slim Handle Kit	13-21561	---
Brightline Array 4 X 3 - Short	13-21562	---
Brightline Array 4 X 3 - Tall	13-21563	---
Brightline Array 6 X 3 - Short	13-21564	---
Brightline Array 6 X 3 - Tall	13-21565	---
Brightline Array 6 X 4 - Short	13-21566	---
Brightline Array 6 X 4 - Tall	13-21567	---

PS

FLIGHT BAGS

AERO SQUADRON LEATHER BAGS

AERO SQUADRON LEATHER DUFFLE BAG
Carry on Bag
Dimensions: 119" Length, 10" Height, 9.5" Width
Color: Walnut
P/N 13-07202 ..... ---

AERO SQUADRON LEATHER BRIEF CS
Satchel Brief.
Dimensions: 16.5" Length, 12" Height, 4" Width
Color: Walnut
P/N 13-07199 ..... ---

AERO SQUADRON LEATHER CARRY-ON
Lambskin wheeled carry-on. Telescoping handle with in-line skate wheels. Exterior front zip compartment with file section & pockets for discs. Exterior back zip pockets. Roomy main compartment with support straps. Compartment for laptop. Import.
Dimensions: 13L x 18H x 7W.
P/N 13-07206 ..... ---

AERO SQUADRON LEATHER TRAVEL SLING
Travel Sling.
Dimensions: 13.5" Width 9.75" Height, 6.75D
Color: Walnut..... P/N 13-07204..... ---

AERO SQUADRON LEATHER SHAVE KIT
Shave Kit
Dimensions: 10" Length, 6" Height, 4" Width
Color: Walnut.
P/N 13-07198 ..... ---

AERO SQUADRON LEATHER SHIELD TOTE
Man Bag w/Shoulder Strap
Dimensions: 6-1/2" x 9" x 4"
Color: Walnut
P/N 13-07201 ..... ---

FLIGHTLINE FLIGHT BAGS

LARGE DELUXE FLIGHT BAG
The top of the line Flight Bag by Flightline boasts an incredible array of features for the price. This heavy-duty bag is double stitched and ideal for large loads.
Dimensions: 12"H x 7-1/4"W x 14-1/2" L
P/N 13-04255 ..... ---

MEDIUM DELUXE FLIGHT BAG
This Flight Bag is ideal for pilots who have a lot to carry but not a lot of space to put the bag. It is currently any pilot's favorite flight gear!
Dimensions: 10"H x 6-3/4"W x 12-1/2" L
P/N 13-04256 ..... ---

DELUXE HEADSET BAG
It is the perfect bag to protect and organize any fragile and expensive equipment. Not only will this bag hold a headset, but other necessary items as well!
Dimensions: 10"H x 4-1/4"W x 10 " L
P/N 13-01416 ..... ---

BISON FLIGHT BAGS

MOUNTAIN ULTIMATE FLIGHT BAG
Taller than most bags, it makes more use of the vertical room in your narrow baggage compartment or cockpit. At 19.5 inches long, 9 inches wide, and 14 inches tall you can pack everything you need to fly with and there is enough room left over for a couple days worth of clothes. The interior compartment is 14 inches long, 7.5 inches wide, and 14 inches tall. A removable interior divider velcros in place to increase storage options. There are nine exterior pockets. Exterior pockets include a padded headset pocket, padded pocket specifically for Garmin 496 or similar GPS's (or handheld radios), cellphone pocket, pocket for magazines or newspapers, water bottle pocket, chart pocket, 8.5 inch by 7 inch pocket for logbooks or aircraft manuals and pen, pencil, flashlight holder. Large padded laptop compartment that measures 14 inches long, 12 inches high, and 1.5 inches wide.A clear plastic identification card holder. There is a place for military or civilian wings that attach with velcro. It comes with sturdy carrying handles that velcro together and a removable carrying strap.

Color	Part No.	Price
Black Curdura	13-05329	---
Grey Curdura	13-05331	---
Black Leather	13-05333	---
Grey Leather	13-05334	---
Brown Leather	13-05336	---

MOUNTAIN RV FLIGHT BAG
A practical solution to organizing the cargo area of your RV-6, RV-7 or RV-9. Also makes a great overnight bag! The RV Flight Bag was designed to fit behind the pilots and co-pilots seat of the RV-6/7/9. It fits over the flap actuator bar and makes maximum use of the area behind your seat. 18 inches high and 12.5 inches wide. There are two side pockets, one 10" x 4 " and a 7" x 5.5" map pocket. The rear side of the bag has a pencil /flashlight/fuel tester pocket, a 10 inch x 7 inch headset pocket, and a 6"x 5 ¼" pocket for small tools. It has a nice carrying handle and comes with two straps that can be attached to your seat back to clip the bag to your seat to minimize movement. It also comes with a removable shoulder strap.

Color	Part No.	Price
Black Curdura	13-05321	---
Grey Curdura	13-05323	---
Black Leather	13-05324	---
Grey Leather	13-05326	---
Brown Leather	13-05328	---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

NORAL FLIGHT BAGS

NORAL EXPRESS FLYER BAG

The swing hook for the adjustable shoulder strap is made of metal to ensure heavy load resistance. The shoulder strap has a soft rubber pad for your comfort and to keep the bag in fixed position while carrying on shoulder. Made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellant taffeta.

Grey .....P/N 13-11440 ..... ---

NORAL TRIPLE HEADSET BAG

The Noral Triple Headset Bag is made of 1680 Denier Ballistic water repellant material. Interior is fully padded and covered with the liner of water repellant taffeta.

Black .....P/N 13-11430 ..... ---
Grey .....P/N 13-11433 ..... ---

NORAL FLYING CLUB BAG

This bag is designed for all pilots, especially for the compact cockpit airline pilot, Military pilot and for private and student pilots. This bag can hold most essential instruments efficiently. The main compartment of this bag can hold a large headset, logbook and/or any other similar items. The rear pocket works well to hold books, boards, charts or similar items. There is also a small front pocket with zipper closure and two side pouches for Transceiver/ GPS etc. Made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellant taffeta.

Black .....P/N 13-11442 ..... ---
Grey .....P/N 13-11444 ..... ---

NORAL ATTACHE FLIGHT BAG

This bag has two side pouches for large headsets. One of these side pouches has a flap pocket with zipper closure to store pens, flashlights, ID card and/ or license etc. Inside the main compartment there is two removable pouches for GPS/Transceiver and two dividers. The dividers can be adjusted to different positions and are removable. The front of the bag has a large open pocket for easy access. The back of the bag has a large zippered pouch with piano type opener and three dividers. At the bottom floor of this bag is a removable plastic board to reinforce it and to keep the bag from sagging when fully loaded. Made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellant taffeta.

Black.....P/N 13-11446 ..... ---
Grey.....P/N 13-11448 ..... ---

NORAL AIRCRAFT DOCUMENT HOLDER

This durable document holder is made of strong fabric with two clear pockets to hold your aircraft document secure and visible. It comes with two inches of velcro to be placed anywhere that velcro can be applied to.

Velcro.....P/N 13-01134 ..... ---

NORAL PRIVATE PILOT BAG

Fits all the goodies and gadgets a pilot needs and wants to carry. It has two extra large zippered headset pouches plus another zippered section to store pens, flashlight, fuel tester, E6B computer and more! Access to the main compartment is through a double zipper flap with a pull cord. In addition to the carrying handles, a detachable padded shoulder strap is included. Size: 11"H x 10.5"W x 15.5"L.

Color: Black .....P/N 13-00313 ..... ---

NORAL MACH 1 FLIGHT BAG

The Mach 1 flight bag is compact yet roomy. The bag features a wide 5" double zippered access flap with a pen and pencil holder. There are two end compartments 6"X10". On the front, a zippered 11"X 6" compartment. On the back is a 4"X 8"X 8" headset compartment which will accomodate the largest of headsets. The Mach 1 is made of US Made Nylon with 1/4" Foam Padded, 1000 Denier and is water resistant. It comes equipped with a GPS/Transceiver Pouch that can be worn on your belt. Also included is a shoulder strap and carry handle.

Dimensions: 15"LX11"WX10 1/2H

Black.....P/N 13-04088 ..... ---

AIRCRAFT SPRUCE SINGLE HEADSET BAG

Safe and convenient way to protect a single headset. Features foam padded single zipper compartment with convenient webbing handle. Made in USA.

Size: 7"L x 4"W x 9"H.

Color: Black....P/N 13-55010 ..... ---

NORAL HEADSET FLIGHT BAG

The main compartment of this bag can hold a large headset and another space with divider for logbook and/or any other similar item. This bag has a rear pocket with secure touch fastener. It also has a small front pouch with touch fastener and one pouch in the left side for Transceiver/GPS. The right side has holders for pen and small flash light. The main compartment is H9" X W9" X G4.5".

Black .....P/N 13-07468 ..... ---

NORAL CFI / IFR PILOT FLIGHT BAG

This bag has two side pouches equipped for large sized headsets. One of these side pouches has a flap pocket with a zipper closure to store pens, flashlight, ID card and/ or license etc. Inside the main compartment is two removable pouches for GPS/ Transceiver. The dimension of main compartment is H11" X W14.5" X G10". In the front of the bag is a large open pocket for easy access. The back of the bag has two open pockets and the bottom floor of the bag is a removable plastic board to reinforce it and to keep the bag from sagging when fully loaded. Also has two dividers in the main compartment that can be adjusted to a different position and can be removed if desired.

P/N 13-15768 ..... ---

PS

FLIGHT BAGS

ASA AVIATOR FLIGHT BAGS

The Pilot Flight Bag and the Trip Bag, are made of fully padded nylon for extreme durability. They feature wraparound carry straps for strength, a non-slip detachable shoulder strap, and high-quality zippers on the main compartments.

Pilot Bag .....P/N 13-04057 ..... ---

PROFLIGHT PREMIUM HEADSET BAG

Three small individual pockets. It is made to resist water and tears. Padded protection for an individual headset with a dual zipper on top makes access very easy. Will fit most ANR headsets. Size: 10-3/4" x 11-3/4" x 5"

P/N 13-06936 ..... ---

ASA AIRCLASSICS PILOT BACKPACK

The ASA AirClassics® Pilot Backpack is made of durable fabric and supported by a heavy-duty water-resistant bottom, this backpack keeps books and supplies organized and protected. Four zippered compartments provide ample room for just about anything a pilot-on-the-go needs. The front pocket will accommodate most aviation headsets, including the HS-1A Headset and Single Headset Bag (both sold separately). The second level interior compartment has a lanyard for keys, a zippered containment pouch, and plenty of pockets and slots for pens, pencils, flight computers and plotters. The spacious main compartment supports textbooks and manuals, and the checkpoint-friendly fold-down back panel contains a padded pocket for a laptop, and a felt-lined pocket for a tablet. The backpack's interior contrasting-color lining makes it east to find things inside.

P/N 13-18424 ..... ---

ASA AIRCLASSICS® CREW TRIP FLIGHT BAG

ASA AirClassics® pilot gear presents a clean, sophisticated, and professional look with supremely functional designs able to withstand the demanding aviation environment. Engineered specifically to meet the needs of professional pilots with collaboration and input from flight crews throughout the industry, the structured and professional ASA Crew Trip Bag is an exciting addition to the AirClassics crew line. This modern flight bag is designed with attention to every detail for ultimate functionality.

P/N 13-25605 ..... ---

ASA AIRCLASSICS® CREW PACK

ASA AirClassics® pilot gear presents a clean, sophisticated, and professional look with supremely functional designs able to withstand the demanding aviation environment. Engineered specifically to meet the needs of professional pilots with collaboration and input from flight crews throughout the industry, the structured and professional ASA Crew Pack is an exciting addition to the AirClassics crew line. Whether used for work or play, this modern pack is designed to accommodate all your cockpit and travel essentials for multi-day trips and can also be used for briefcase-style carrying. P/N 13-25604 ..... ---

AEROCOAST PRO SLIM NOTEBOOK BAG

A great addition to the 13-12894 Pro Cooler Bag sold separately. Shoulder strap connectiion points on both modular sections. Easy X-ray screening at TSA checkpoints so you will never take out your laptop again. You will save time and you will protect your laptop, iPad or EFB from physical damage. ipad compartment dimensions 15 x 11 x 1.5 inches.

P/N 13-12895 ..... ---

AEROCOAST PRO COOLER I

Eat healthy on the road and save money. This cooler bag has two separate insulated compartments with silver lining to keep your food warm or cold. Tired of lugging around more than you have to? Do you want to eat healthier and save money while on the road? You can eliminate a lot of day to day hassle at the TSA checkpoints. Ergonomically designed snap handle for quick, easy, and comfortable use. Four additional pockets for easy storage of accessories. Rigid case construction for added durability. A great addition to the 13-12895 Pro Slim Notbook Bag sold separately.....P/N 13-16281 ..... ---

AEROCOAST PRO EFB & INSULATED COOLER BAG

Top pocket for sunglass. Shoulder strap connectiion points on both modular sections. Modular design lets the EFB & Cooler portion to be used independently or used in unison. Easy X-ray screening at TSA checkpoints so you will never take out your laptop again. Two separate insulated compartments to keep your food warm or cold. Four additional pockets for easy storage of accessories. Leak resistant main compartment design. Fits under aircraft seats for easy stowage on travel. Outside dimensions: 15 x 11 x 10 inches. Laptop compartment dimensions 15 x 11 x 3 inches

P/N 13-12893 ..... ---

AEROCOAST PRO CREW I FLIGHT BAG

The Next-Gen airline pilot flight bag. You can breeze through and eliminate a lot of the stress at TSA checkpoints. YKK Zippers and rigid composite construction to increase durability. Ergonomically designed snap handle for quick, easy, and comfortable carrying. Quick access top compartment for extra storage has been added, in addition to 5 pockets for easy organization and storage of accessories. Interior padded compartment makes for a great way to carry and protect your laptop, EFB, or iPad, etc. with additional room to bring books and manuals and all of your necessary trip accessories. **Specifications**: • Outside: 16 x 11 x 9.5 inches • Interior Compartments: Main: 15.5x11x7 inches • Second forward: 15.5 x 11 x 1.5 inches • Most forward: 15.5 x 11 x 1 inches..P/N 13-22309 ..... ---

AEROCOAST PRO CREW I-W FLIGHT BAG

YKK Zippers and rigid composite construction to increase durability. Ergonomically designed snap handle for quick, easy, and comfortable carrying. This bag has quick access top compartment for extra storage, in addition to 5 pockets for easy organization and storage of accessories. Interior padded compartment makes for a great way to carry and protect your laptop, EFB, or iPad, etc. with additional room to bring books and manuals and all of your necessary trip accessories. **Specifications**: Outside 15.5 x 13 x 11 inches • Interior Compartments: Main: 15.5 x 11 x 7 inches • Second forward: 15.5 x 11 x 1.5 inches • Most forward: 15.5 x 11 x 1 inches .....P/N 13-22310 ..... ---

AEROCOAST PRO JETPACK I BACKPACK

This ultimate bag has 3 primary compartments and multiple usable organizational pockets for easy organization and storage of required equipment such as headsets, EFB's, laptop, glasses, and all the associated accessories. Interior padded compartment makes for a great way to carry and protect multiple EFB's laptops, tablets, etc. with additional room to bring food, and all of your necessary trip accessories. **Specifications**: • Outside: 16"x13"x8" • Main compartment: 15"x12"x5" • Main Laptop compartment: 14"x12"x2" • Front iPad/ EFB sleeves: 12"x11"x.5" • Sunglass compartment: 10"x3"x2.8".

P/N 13-22311 ..... ---

PS

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Please view our website for current prices.

FLIGHT BAGS

AIRCLASSICS™ SINGLE HEADSET BAG

For those who like to fly with minimum baggage, this holds one headset, has extra pockets, and all-around padding.

P/N 13-02333 ..... ---

PORTABLE FOLDING LUGGAGE CART

3-Way portable luggage cart (folding cart) in black plastic with 37.5" extension handle. Load up to 66 lbs. Store flat. Makes moving items easy. Fits the Brightline Bag perfectly! To attach the bag, place the front of the bag (pocket-side) flush against the telescoping handle. Take the handle and clip it into the front buckle. Wrap the handle around the telescoping handle and reattach it to the opposite front buckle. The bag is now securely attached to the cart

P/N 13-10007 ..... ---

WWP-102 HEADSET BAG

This padded carry bag provides inexpensive insurance against headset damage. Featuring dual zipper openings, inside pocket sectionals, computers, glasses, etc. Bag is constructed of black waterproof nylon with carry handle.

P/N 17-00231 ..... ---

AVCOMM DELUXE DUFFLE FLIGHT BAG

AvComm Pilot Deluxe Flight Bag with 7 Compartments. Great for your flight gear, tarvel or any overnight stay.

Features: • Seven compartments with shock resistant padding • Dual zippered flap on center compartment has a Velcro® strip making it easy to zip • Inside, a Velcro® partition and pouch with Velcro® closure secures radios and gear • Outside features a large compartment, two zippered end pockets for headsets, and two additional gusseted pouches.

Specification: • Dimensions: 18"L x 10.5"H x 9"W • Weight: 2 lbs.

P/N 11-02277 ..... ---

LIGHTSPEED ADVENTURE FLIGHT BAG ORGANIZER

This flight bag insert is designed to help organize the interior of our Gann, Markham and Duke flight bags and is perfectly sized to hold your Zulu 3 ANR headset. This newest addition to the Flight Bag collection has a slimmer profile than its predecessor, with a fold-over flap

Dimensions: 11"W x 2.25"D x 9"H

P/N 11-19252 ..... ---

GELFLEX "CREW" LUGGAGE TAG DUAL SIDED

The Gelflex Crew Luggage Tag is a great version of a traditional Crew Tag. Black letters (CREW) on vibrant background. And best of all, it comes with a special flexible cord that enables you to attach it to your luggage or equipment without worrying about whether it will break or tear. 3-3/4" x 2-1/4.

White Tag .....P/N 14-02963 ..... ---

Blue Tag .....P/N 14-02960 ..... ---

FORCE PROTECTOR GEAR HELMET BAG

FPG HelmetBag design! This bag features a much larger storage capability without taking up too much cabin space in aircraft. The pleated bag design expands and contracts with your loadout to easily fit your helmet and accessories. Dimensions: 21.5" Wide x 19" Tall x 3.25" D (54.6cm Wide x 48cm Tall x 8.3cm D). Capacity: 1226 cubic inches internal / 20 liters / 676 cubic inches external pockets / 11 liters. Weight: 2 lbs / .9kg.

Color	Part No.	Price
Black	13-20223	---
Multi-Camo	13-20637	---
Coyote	13-20640	---

THE AVIATOR BAG

Slightly smaller than the Navigator Bag, but still spacious enough for all your flight materials. Includes 1 exterior front pocket as well as detachable headset & transceiver cases. Constructed with durable PVC backed with 600 denier poly. 15"x 6.5" x 12" (black only).

P/N 13-00998 ..... ---

THE STUDENT PILOT

A great first bag for the student pilot. Numerous outside pockets organize charts, flight computer, fuel tester, plotter, pens and pencils, flashlight and much more. Comfortable, wide removable shoulder strap; double zipper opening for easy access. Reinforced bottom. Constructed with durable PVC backed 600 denier poly. 10"x 5.5"x17" (black only)..... P/N 13-00997 ..... ---

JEPPESEN STYLE FLIGHT BAG

Student/Book Bag: Same great bag Jeppesen uses for its training kits. The bag is made from heavy-duty 6000 denier Cordura for superior strength and with a PVC coating on one side for added water resistance. Includes outside pockets, removeable shoulder strap, reinforced bottom. Size 10" x 5.5" x 17"

P/N 13-06280 ..... ---

AIRCRAFT DOCUMENT CASE

This durable, flexible blue cordura pouch is an ideal way to keep aircraft registration, insurance, log books, operating manuals, and other important documents all in one safe location. Measures 18"W x 12"H. Features top quality zipper along front side for easy access and location to mark your aircraft number on front.

Color	Part No.	Price
Blue	13-20065	---
Black	13-11883	---
Red	13-02934	---

GOT YOUR SIX AIRCRAFT SEAT ORGANIZER FOR THE COCKPIT

Keep your phone, batteries, flashlight and sunglasses close at hand with the Got Your Six Aircraft Seat Organizer. Fits perfectly between any seat cushions that either touch or have up to ½" between them. Simply separate the aircraft seat cushions gently and slide the FlySix Aircraft Seat Organizer into place. Thanks to its integrated friction-fit pad, the organizer will stay in place vertically exactly where you place it! Works excellent for rear seats as well to help keep snacks, kid's toys, or other items close at hand. Do your seats slide forward and back separately? No problem, the Got Your Six Aircraft Seat Organizer will still stay firmly in place. With its tapered design, you won't feel the organizer between the two occupants, even in a smaller aircraft.

The tray is 9" by 2", with a 2.5" depth for storing your items. The vertical tab that holds the organizer firmly in place is 9" long by 3.5" tall, 5/8" in thickness including friction pad." .....P/N 13-24330 ..... ---

PS

FLIGHT OUTFITTERS BAGS – FLIGHT CASE

FLIGHT OUTFITTERS LIFT MINI 2.0 FLIGHT BAG

We've taken everything pilots loved about the classic Lift Flight Bag and boiled it down to just what you really need. The Lift Mini 2.0 boasts a sleek, modern design crafted with updated materials. Don't let its compact size fool you—the Lift Mini 2.0 is a powerhouse of functionality. It offers easy access to multiple compartments, including a headset section, a main pocket for items up to an iPad mini in size, and ample storage for all your essential accessories. .....P/N 13-25704 ..... ---

FLIGHT OUTFITTERS CREW DUFFEL BAG

The Flight Outfitters Crew Duffel Bag is the Swiss Army knife of flight bags. This multi-functional duffel bag is designed to meet the needs of modern travelers, offering a solution for streamlined travel and daily convenience whether you're in the front of the plane or the back. Even if you're not flying (the horror!), the Crew Duffel Bag is perfect for the gym or a weekend road trip. The interior of the Crew Duffel features a padded tablet pocket, two internal slash pockets, and one internal zip pocket, providing ample space for your essentials. With easy-access front and side pockets and small item organization compartments, this bag is perfect for storing everything from your Bose headset and logbook to clothes for an overnight trip. And everything stays organized. P/N 13-25618 ..... ---

FLIGHT OUTFITTERS LIFT XL FLIGHT BAG

The Lift XL is a larger version of the top-rated Lift Bag, adding more room for storage (ex. two headsets, not included) and more organization options, all while retaining the signature design features that make Flight Outfitters bags so useful in the cockpit. For professional pilots who prefer an understated, all-black look, the Lift XL Pro is ideal. Features a solid black exterior but with the signature orange interior so items are easy to find in the dark. Slides over your rolling luggage for easy transport. **Specifications:** • Weight (empty): 2 lbs. • External: 18″w x 10.5″h x 9″d • Main Internal Pockets (front to back).....P/N 13-22020 ..... ---

FLIGHT OUTFITTERS LIFT 2.0 FLIGHT BAG

The Lift Flight Bag's compact size remains perfect for the modern-day pilot. It provides easy access to multiple compartments, a padded headset section, a dedicated iPad pocket, and ample storage for cords, backup batteries, and ADS-B receivers. While maintaining a similar silhouette to the original Lift Flight Bag, the new Lift features updated material choices and styling to give it a sleek look. Like a modern muscle car, this new bag includes the latest technology but with a few design cues from the original. P/N 13-25616 ..... ---

FLIGHT OUTFITTERS BUSH PILOT BAG

The Bush Pilot bag is canvas with leather accents, and carries an embossed leather flight outfitters patch on the front. The inside of the Flight Level has the signature Flight Outfitters orange, making it easy to find gear in a dark cockpit. There are two large padded side pockets for headsets. The large front zip pocket has 4 organization pockets, for chargers and other smaller items that tend to find their way to the bottom of other bags. The Bush Pilot Bag also features a pass through strap on the back to slide over rolling luggage handles and a leather shoulder strap pad ..... P/N 13-19105 ..... ---

FLIGHT OUTFITTERS SEAPLANE DUFFEL 40L

This rugged, water-resistant duffel bag is made for remote fishing trips, cross-country flights in old taildraggers, and any other adventures you can dream up. The huge center compartment can haul almost anything, from clothes to hunting gear, and features a padded bottom layer for protection. Best of all, the Seaplane Duffel remains flexible enough to stuff into cramped luggage compartments. You can even roll it up and pack it away in another bag when not in use. It's your go-anywhere, do-anything bag—whether you're flying or not..... P/N 13-23559 ..... ---

FLIGHT OUTFITTERS BUSH PILOT DOPP KIT

The Bush Pilot Dopp Kit features a large 5 1/2"H X 9 3/4"W mesh zipper pocket for those hard to find personal care items. Below the mesh pocket is another large enclosed pocket 6"H X 9 3/4"W ideal for storing toothpaste, razor, medicine, and feminine products. The main body of the dopp kit features a heavy duty zipper pocket for larger items such as shampoo, deodorant, aftershave, perfume, mouthwash, and brushes..... P/N 13-24203 ..... ---

FLIGHT OUTFITTERS FLIGHT CART - One of a kind patented design and function makes sure the Model 700 lives up to its moniker. An impressive 400lb capacity and generous loading tray (16"w x 13.5"d) allows you to move anything from presentation and display equipment to a washer/dryer. Easy single-motion squeeze handle telescopes the cart open and closed. Sleek design and limted lifetime warranty put the Super Cart in a league of its own P/N 13-19651 ..... ---

FLIGHT OUTFITTERS BUSH PILOT FLIGHT BAG

This rugged flight bag offers a compelling mix of bush pilot styling and cockpit-centric features. Constructed of thick canvas with leather accents, this bag will quickly become a favorite at the airport and beyond. It has one main center compartment with two movable dividers, allowing you to customize your bag for your needs. Perfect for multiple headsets, or creating a spot for cockpit mounts and cameras. The plethora of external pockets keeps frequently used gear close at hand.

The inside has the signature Flight Outfitters orange lining, making it easy to find gear in a dark cockpit. Cleats on the bottom of the bag help keep the bag clean and dry. Rugged handle and a padded shoulder strap complete the leather-accented look. Measures 16" Height x 9" Depth x 10.5" Height .....P/N 13-23892 ..... ---

FLIGHT OUTFITTERS BUSH PILOT FOLIO BAG

Whether you're soaring above the clouds in your Cirrus or closing a big deal in your desk chair, this Folio Bag looks like it just left the flight deck of a DC-3. But while the Bush Pilot Folio has plenty of style, it's also a very practical bag, storing a surprising amount of gear without looking bulky or weighing you down. It has separate pockets for your tablet and laptop, plus a large center compartment and plenty of exterior pockets. You can keep everything separated but easy to find. For further utility, the Folio Bag has a rear strap to securely attach it to your roll-aboard..... P/N 13-20713 ..... ---

FLIGHT OUTFITTERS AVIATOR BACKPACK

The Aviator Backpack features a popular slash pocket from the Lift Bag on the front for quick access. It also includes modernized water bottle/radio compartments on the side, plus dedicated spaces for fuel testers and pens. The front compartment boasts nine different organization pockets, providing ample space for all your essentials. Inside the main pocket, you'll find one large zip pocket, two smaller slash pockets for cables and wires, and a headset hanger to protect your investment. The rear pocket offers even more organization with two slash pockets, one zippered pocket, and a padded laptop sleeve with a velcro closure. P/N 13-25617 ..... ---

FLIGHT OUTFITTERS SANDBAR TOTES

A beach tote with a headset hanger? Whether you're headed to the beach, the office, or the cockpit for a cross-country trip, this stylish Flight Outfitters Sandbar Tote will store everything you need. This isn't your typical everyday tote bag. This tote has been designed with the pilot in mind.

Whether you're piloting or co-piloting your own adventure, this tote will let others know you are serious about aviation. From the prop blade design on the front to the aviation-themed interior, this tote will serve you well in your travels. Large enough for a weekend getaway, you can haul what you need easily in the spacious interior compartment. Padded sleeve safely secures your iPad or laptop while a zippered interior pocket organizes your smaller items like charging cables and your wallet.

Specifications: • Bottom Width: 21" across top; 15" across bottom • Depth: 4.25" • Height: 17" • Handle Length: 12"

Grey.....P/N 13-24533 ..... ---
Orange.....P/N 13-24534 ..... ---

FLIGHT OUTFITTERS BUSH PILOT RUCKSACK

You don't have to be landing float planes in Alaska to appreciate the Flight Outfitters Bush Pilot Rucksack. Constructed with thick canvas with leather accents, this backpack combines pilot friendly features with an outback style. External pockets keep frequently used items close at hand, while a massive interior has plenty of room for larger gear. The thick, genuine leather accents provide a rustic feel and the heavy canvas material will only look better with age. The Bush Pilot Rucksack will quickly become your favorite bag. Measures 17" tall x 16" wide x 8" deep.....P/N 13-23561 ..... ---

FLIGHT OUTFITTERS FLIGHT DECK PRO BAG

Ready for flight-level performance from your flight bag? Introducing the Flight Deck Pro from Flight Outfitters. It's the perfect solution for pilots who are tired of struggling with clunky bags or cheap alternatives. Stylish yet practical—and ready to hang from your suitcase's J-hook—the Flight Deck Pro features 30 pockets to protect your essential gear. With a mix of quick-access elastic pouches and secure-zip pockets, it's easy to organize your headset, iPad, flashlight, pens, and all your must-have items. The well-planned layout ensures that all your gear is easily accessible in flight, and the classic black style meets airline uniforms policies.

P/N 13-25831 ..... ---

PS

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Please view our website for current prices.

FLIGHT BAGS – AVIATION CASES

SCULLY AEROSQUADRON LEATHER DUFFLE BAG

2 Zip Carry-On lambskin duffle bag with Exterior zip pocket. This bag has two roomy center zip compartments. One compartment includes garment straps and the other compartment includes pockets for cell phone and pens. 2 roomy center zip compartments. Removable and adjustable shoulder strap w/ faux shearling pad. Cotton lining shows schematics of aircrafts. Color: Walnut. 23" Width 13.5" Height x 6.5" Depth.....P/N 13-18001 ..... ---

SCULLY AEROSQUADRON MESSENGER BRIEF BAG

Lambskin messenger brief bag for laptop. This bag comes with a front outer zip pocket under flap and a single gusset inside zip pocket in back and small open pockets in front.

P/N 13-18002 ..... ---

SCULLY AEROSQUADRON LEATHER TRAVEL KIT

Leather travel kit with exterior dual zip entry compartment. It has a roomy main compartment w/open pockets to hold travel bottles, toothbrush, etc. Removable zip mesh pocket. Elastic loop for brush. Rear zip compartment includes hanger. 12.25" Length x 7.5" Height x 4" Width.

P/N 13-18004 ..... ---

NORAL EXTRA PADDED HELMET BAG

The swing hook for the adjustable shoulder strap is made of metal to ensure heavy load resistance. The shoulder strap has a soft rubber pad for your comfort and to keep the bag in fixed position while carrying on shoulder. This bag is made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellant taffeta.

Black .....P/N 13-00262 ..... ---

WEEKENDER COMBO FLIGHT BAG

The swing hook for the adjustable shoulder strap is made of metal to ensure heavy load resistance. The shoulder strap has a soft rubber pad for your comfort and to keep the bag in fixed position while carrying on shoulder. This bag is made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellant taffeta.

Grey.....P/N 13-11385 ..... ---
Black.....P/N 13-01434 ..... ---

LIGHTSPEED ADVENTURE FLIGHT BAG - THE GANN

Ready for a true journey, the Gann is imbued with the same insatiable thirst for adventure as the novelist it is named for. Spacious but cabin-friendly, this carpenter-style bag is a great companion to the pilot who has everything — and likes to take it along. Dimensions: 16"W x 6"D x 13.5"H .....P/N 11-13505 ..... ---

LIGHTSPEED ADVENTURE FLIGHT BAG - THE MARKHAM

Ready for a true journey, the Gann is imbued with the same insatiable thirst for adventure as the novelist it is named for. Spacious but cabin-friendly, this carpenter-style bag is a great companion to the pilot who has everything — and likes to take it along. Dimensions: 16"W x 6"D x 13.5"H .....P/N 11-13506 ..... ---

LIGHTSPEED ADVENTURE FLIGHT BAG – THE DUKE

You'll be ready to grab and go when the mission calls – just like the RAF fighter pilot and writer for which this purpose-designed backpack is named, Neville Frederick Duke. This Second World War British test pilot and fighter ace chronicled his experiences in a multitude of writings. His bold career and lifestyle were the inspiration for Lightspeed to create the Duke, the leather backpack addition to Adventure Flight Bag collection.

P/N 11-19334 ..... ---

CFI / IFR PILOT FLIGHT BAG

This bag has two side pouches equipped for large sized headsets. One of these side pouches has a flap pocket with a zipper closure to store pens, flashlight, ID card and/ or license etc. Inside the main compartment is two removable pouches for GPS/Transceiver. The dimension of main compartment is H11" X W14.5" X G10". In the front of the bag is a large open pocket for easy access. The back of the bag has two open pockets. Has two dividers in the main compartment that can be adjusted to a different position and can be removed if desired. Size: 11" x 23" x 12"

Black.....P/N 13-00186 ..... ---
Grey.....P/N 13-11375 ..... ---

PROFLIGHT STUDENT PILOT BAG

The ProFlight Student Pilot bag is a great value! Black Cordura type material, carry strap. Great for students; use alone or as an accompaniment to your travel luggage. This bag is similar to the Jeppesen Student Pilot Bag in style and materials with multi side pockets. Size: (L)17" x (W)6" x (H)10".

P/N 13-06280 ..... ---

GATOR WATERPROOF AVIATION CASES

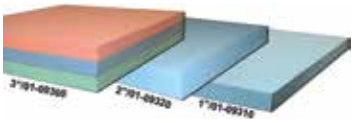
Gator Cases new line of water proof, dust proof, sand proof, crush proof, injection molded cases feature inpact-proof light weaight NK-7 resin and have a ATA-300 flight safe rating. Every case has a Auto Presure equlizer valve with a Mil-Std-810F Immersion test certification. Available in both NO FOAM and DICED FOAM version, all Gator Injection Molded Cases have Soft Grip carry handles, and unique easy relase Powerclaw(TM) latching system.

Part No.	Item Number	Description	Interior Dimensions	Price
13-17861	GU-0705-03-WPNF	Black Waterproof Injection molded case, with NO FOAM	7.4" x 4.9" x 3.1"	---
13-17862	GU-0806-03-WPNF	Black Waterproof Injection molded case, with NO FOAM	8.4" x 6" x 3.7"	---
13-17863	GU-0907-05-WPNF	Black Waterproof Injection molded case, with NO FOAM	9.4" x 7.4" x 5.5"	---
13-17864	GU-1309-03-WPNF	Black Waterproof Injection molded case, with NO FOAM	13.2" x 9.2" x 3.8"	---
13-17865	GU-1309-06-WPNF	Black Waterproof Injection molded case, with NO FOAM	13.8" x 9.3" x 6.2"	---
13-17866	GU-1510-06-WPNF	Black Waterproof Injection molded case, with NO FOAM	15" x 10.5" x 6.2"	---
13-17867	GU-1711-06-WPNF	Black Waterproof Injection molded case, with NO FOAM	17" x 11.8" x 6.4"	---
13-17868	GU-1813-06-WPNF	Black Waterproof Injection molded case, with NO FOAM	18" x 13" x 6.9"	---
13-17869	GU-2011-07-WPNF	Black Waterproof Injection molded case, with pullout handle and inline wheels and NO FOAM	20.5" x 11.3" x 7.5"	---
13-17870	GU-2014-08-WPNF	Black Waterproof Injection molded case, with NO FOAM	20" x 14" x 8"	---
13-17871	GU-2015-10-WPNF	Black Waterproof Injection molded case, withpullout handle and inline wheels and NO FOAM	20.5" x 15.3" x 10.1"	---
13-17872	GU-2217-08-WPNF	Black Waterproof Injection molded case, with NO FOAM	22" x 17" x 8.2"	---
13-17873	GU-2217-13-WPNF	Black Waterproof Injection molded case, with pullout handle and inline wheels and NO FOAM	22" x 17" x 12.9"	---
13-17874	GU-1510-06-WPDF	Black waterproof injection molded case with DICED FOAM	15" x 10.5" x 6.2"	---
13-17875	GU-1711-06-WPDF	Black waterproof injection molded case with DICED FOAM	17" x 11.8" x 6.4"	---
13-17876	GU-1813-06-WPDF	Black waterproof injection molded case with DICED FOAM	18" x 13" x 6.9"	---
13-17877	GU-2011-07-WPDF	Black waterproof injection molded case with pullout handle, inline wheels and DICED FOAM	20.5" x 11.3" x 7.5"	---
13-17878	GU-2014-08-WPDF	Black waterproof injection molded case with DICED FOAM	20" x 14" x 8"	---
13-17879	GU-2015-10-WPDF	Black waterproof injection molded case with pullout handle, inline wheels, and DICED FOAM	20.5" x 15.3" x 10.1"	---
13-17880	GU-2217-08-WPDF	Black waterproof injection molded case with DICED FOAM	22" x 17" x 8.2"	---
13-17881	GU-2217-13-WPDF	Black waterproof injection molded case with pullout handle, inline wheels, and DICED FOAM	22" x 17" x 12.9"	---
13-17882	GX-20	Cargo Case w/ Lift-Out Tray, Wheels, Retractable Handle	13.5"X12.75"X14"	---
13-17883	GxX-22	Cargo Case w/ Lift-Out Tray, Wheels, Retractable Handle	12"X24"X30"	---

PS

SEAT FOAM - FLIGHT SEATS

CONFOR FOAM SEAT CUSHION



Confor Form (formerly called Temperfoam) is the conforming foam cushion that was developed for the "Astronaut's Couch" back in the Apollo space program. Confor Foam has the capability of absorbing a tremendous amount of impact shock compared to common polyfoam and it is flame resistant. It is an excellent product that will give your seats enduring comfort that you never thought possible. Adapts to you for pressure point-free comfort that is really incredible. The best universal cushion for aircraft use is a 3" CF42/CF45/CF47 laminate. Confor Foam meets FAR 25.853, FAR 25.855, and CAL 117 burn specifications making it excellent for certified aircraft or homebuilts. Some special sizes in 1", 2", or 3" thicknesses are available on special request.

Foam Size	Foam Type	Color	Part No.	Price
1" X 16" X 18"	CF45 Medium	Blue	01-09310	---
1" X 16" X 18"	CF47 Firm	Green	01-01632	---
1" X 18" X 24"	CF47 Firm	Green	01-01662	---
1" X 16" X 18"	CF42 Soft	Pink	01-01633	---
1" X 18" X 24"	CF45 Medium	Blue	01-01634	---
1" X 18" X 24"	CF42 Soft	Pink	01-01635	---
2" X 16" X 18"	CF45 Medium	Blue	01-09320	---
3" X 16" X 18"	CF42/CF45/CF47 (1" Soft, 1" Medium, 1" Firm)	Pink, Blue, Green	01-09300	---

SKWOOSH™ PILOT SEAT

SKWOOSH™ fluidized gel cushions elieve pressure on the "sitz" bones to help maintain circulation, and reduce numbness and lower back discomfort caused by prolonged sitting. The non-skid bottom makes SKWOOSH™ stay put, ensuring no movement during use while the low profile (½") allows for normal seat position. SKWOOSH™ cushions are made in the USA and are guaranteed for performance and workmanship. Weight: 8 oz. Open Dimensions: 10½"L x 15"W x ½"H. Folded Dimensions: 10½"L x 7½"W x 1"H

P/N 13-05827 ..... ---

SKWOOSH PRO TRAVELER

SKWOOSH™ fluidized gel cushions relieve pressure on the "sitz" bones to help maintain circulation, and reduce numbness and lower back discomfort caused by prolonged sitting. Non-skid bottom and is maintenance free. SKWOOSH™ cushions are made in the USA and are guaranteed for performance and workmanship. Weight: 8 oz. Open Dimensions: 10½"L x 15"W x ½"H. Folded Dimensions: 10½"L x 7½"W x 1"H.....P/N 13-10284 ..... ---

SKWOOSH LUMBAR CRADLE

The SKWOOSH™ LUMBAR CRADLE uses a cutting edge SPLIT LUMBAR DESIGN, TekPad® FLUIDIZED GEL and AIR-FLO3D breathable fabric to provide the best in back comfort. The "gel comfort-cradle" contours and cradles the back exactly as nature intended. SKWOOSH™ products are made in the USA and are guaranteed for performance and workmanship.

P/N 13-18497 ..... ---

RAM SEAT WEDGE WITH PUMP

The Tough-Wedge™ is a mount that fits in the gap between the vehicle seat and center console or potentially a center seat. This allows for easy access and operation of a mobile device. The Tough-Wedge™ can also be used for back-seat applications by inserted into the pockets located on the back of the front seats. Included diamond adapter attaches to a variety of RAM mounts. Length: 13.25". Height: 8.25". Depth: 1". Inside Wedge Depth: 0.375" - 0.875".

P/N 11-14362 ..... ---

PROFLIGHT SEATS

Sit higher, and sit softer on 2 or 3 inches of high-density foam covered with durable, "breathable" Cordura. Made of USAF specifications, with segmented backrest. Really makes a difference on a long flight. Also available: 3 or 4-inch thick child's cushion that finally lets kids see outside, keeps them interested as well as comfortable during long trips. Both seat and cushion are available in either Air Force blue or red. Add B (blue), or R (red) after part number to indicate color. Dimensions for all Seats: Back: Width - 16" Height - 17" Seat: Width -15" Depth - 12"

Description	Part No.	Price
Blue 2" Booster seat w/ 1-1/2" back	13-02916	---
Red 2" Booster seat w/ 1-1/2" back	13-02917	---
Blue 3" Booster seat w/ 1-1/2" back	13-02918	---
Red 3" Booster seat w/ 1-1/2" back	13-02919	---
Blue 3" Booster seat w/ 3" back	13-02920	---
Blue 4" Booster seat w/ 1-1/2" back	13-31855	---
Red 3" Booster seat w/ 3" back	13-02922	---
Child's Blue 3" Booster cushion	13-02923	---
Child's Red 3" Booster cushion	13-02924	---
Child's Blue 4" Booster cushion	13-02925	---
Child's Red 4" Booster cushion	13-31861	---
Blue - 4" Seat x 3" back	13-31845	---
Red - 4" Seat x 3" back	13-31850	---
Red - 4" x 1-1/2" back	13-31860	---
Blue - Cut for flight stick 4" Seat w/ 1-1/2" back	13-12077	---

NORAL SEATS

This cushion is made with the finest materials available. It features a high back with a Lumbar Support for added comfort. The foam inside meets FAA FAR regarding fire materials. A strap is present for easy carrying and securing the cushion to the back of the seat when installed. Available in 2 sizes marked Type 'A' & Type 'B'.

Label 'A' is intended for larger aircraft such as Cessna 172, 182, 210, or Cardinal.

Label 'B' fits Intended for smaller aircraft such as Cessna 150, 152, Piper Cherokee or Warrior.

Available only in Black & Smoke Grey.

Color	Part No.	Price
2" Seat Cushion - Type A		
Black	13-00327	---
Grey	13-00329	---
3" Seat Cushion - Type A		
Black	13-00334	---
Grey	13-00337	---
4" Seat Cushion - Type A		
Black	13-00342	---
Grey	13-00344	---

Color	Part No.	Price
2" Seat Cushion - Type B		
Black	13-00323	---
Grey	13-00326	---
3" Seat Cushion - Type B		
Black	13-00331	---
Grey	13-00333	---
4" Seat Cushion - Type B		
Black	13-00338	---
Grey	13-00341	---

Description	Color	Part No.	Price
2" Cushion With No Back	Black	13-00346	---
2" Cushion With No Back	Grey	13-00348	---
3" Cushion With No Back	Black	13-00221	---
3" Cushion With No Back	Grey	13-00223	---
4" Cushion With No Back	Black	13-00224	---
4" Cushion With No Back	Grey	13-00227	---

BLACK MAX COMFORTLITE SEAT

- 18" Wide X 19" Deep x 26" High
- 6061-T6 Aluminum Base and tubing.
- Assembled with AN Hardware. Material made from durable cordura nylon
- Includes a large storage pocket in the back
- Additional storage between pan and seat
- Pivots down to make it easier to get in behind the seat on a tandem .....P/N 13-05554 ..... ---

INFLATABLE LUMBAR SUPPORT

This inflatable air pillow can be installed just under the seat material and will give you the customized support just where you need it. A convenient palmsize pump and a release valve control the firmness of the lumbar support. The In-Flight Back Support is made of a heavy duty self-extinguishing neoprene rubber, specially designed to pass FAR 23.853 flame-test requirements.

Quantity One .....P/N 13-01501 ..... ---
Quantity Two .....P/N 13-01821 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

OREGON AERO® SEATING SYSTEMS

Oregon Aero® VK SmartCushion™ Systems for Experimental and Homebuilt aircraft offer maximum-comfort seating designed for your particular aircraft. The VK SmartCushion™ System shifts the hips, pelvis and back into a comfortable sitting position. At the same time, the seat cushions support occupants over as large an area of the seat surface as possible, preventing painful "hot spots." Pilot and passengers fly in comfort-no matter how long the flight. Simply put, Oregon Aero® offers the most comfortable seat in the industry **All Oregon Aero® Seating Systems are 100% Satisfaction Guaranteed.**

OREGON AERO® SEAT CUSHION GLASAIR I, II, III

GlasAir I (Pilot), II, III Left or Right Cushion Set un-upholstered cushion core.

NOTE: Cushion set includes: (1) back and (1) bottom cushion. Price per set.

Description	Part No.	Price
GlasAir I Pilot Left or Right Cushion Set	13-07474	---
GlasAir II or III Left or Right Cushion Set	13-07475	---

OREGON AERO® SEAT CUSHION GLASTAR

Glastar Left & Right Front Cushion Set un-upholstered cushion core.

Description	Part No.	Price
Glastar Left Front Cushion Set	13-07476	---
Glastar Right Front Cushion Set	13-07477	---

OREGON AERO® SEAT CUSHION LANCAIR 320/360/IV PILOT/LEGACY

Lancair 320/360/IV Pilot/Legacy Left or Right Cushion Set un-upholstered cushion core.

Description	Part No.	Price
Lancair 320/360 Left Front Cushion Set	13-07478	---
Lancair 320/360 Right Front Cushion Set	13-07479	---
Lancair IV Pilot or Co-Pilot Cushion Set	13-07480	---
Lancair Legacy Left or Right Cushion Set	13-07481	---

Front Rear

OREGON AERO® SEAT CUSHION RV-4

RV-4 Front & Rear Cushion Set un-upholstered cushion core

Description	Part No.	Price
RV-4 Front Cushion Set	13-07482	---
RV-4 Rear Cushion Set	13-07483	---

OREGON AERO® SEAT CUSHION RV-6

RV-6 Left or Right Cushion Set un-upholstered cushion core.

Description	Part No.	Price
RV-6 Left or Right Cushion Set 2"	13-07484	---
RV-6 Left or Right Cushion Set 3"	13-07485	---

OREGON AERO® SEAT CUSHION RV-7

RV-7 Pilot or Co-Pilot Cushion Set un-upholstered cushion core.

P/N 13-07486 ..... ---

OREGON AERO® SEAT CUSHION RV-8

RV-8 Front and Rear Cushion Set un-upholstered cushion core.

Description	Part No.	Price
RV-8 Front Cushion Set	13-07488	---
RV-8 Rear Cushion Set	13-07489	---

1 INCH PORTABLE UNIVERSAL SOFTSEAT® CUSHION SYSTEMS

Shifts your hips, pelvis and back into the proper, pain-free position. Helps minimize lower back pain from prolonged sitting. Eliminates pain from "hot spots." Can raise or move you forward. Zippered and interchangeable parts. 100% satisfaction guaranteed.

Two anchor options available: (1) Non-Skid Strips (most popular option) Two 1" wide x 10" long strips of black webbing with black non-skid rubber are hand sewn to the bottom of the cushion. (2) Straps - Best option if using Cushion Base for one purpose, such as in an aircraft. One-inch straps with adjustable buckle are hand sewn from side-to-side. Two hook and loop fasteners are hand sewn to the back.

1" Cushion is the most commonly used thickness. 1/2" Cushion is available for individuals with limited headroom. 2" Cushion available for individuals who need raised up. See www.aircraftspruce.com for additional sizes.

Color	Non-Skid Strips	Price	Straps	Price
Burgundy	13-08611-1	---	13-08614-1	---
Blue	13-08611-2	---	13-08614-2	---
Teal	13-08611-3	---	13-08614-3	---
Beige	13-08611-4	---	13-08614-4	---
Gray	13-08611-5	---	13-08614-5	---
Charcoal	13-08611-6	---	13-08614-6	---
Black	13-08611-7	---	13-08614-7	---

OREGON AERO® SEAT CUSHION VELOCITY

Velocity Cushion Set un-upholstered cushion core.

Description	Part No.	Price
Velocity Cushion Set	13-07490	---

OREGON AERO® SEAT CUSHION ZENITH/ZENAIR

Zenith/Zenair Left and Right Cushion Set un-upholstered cushion core.

Description	Part No.	Price
Un-upholstered CH701 Left cushion	13-07491	---
Un-upholstered CH701 Right cushion	13-07492	---
Un-upholstered CH601 Left cushion	13-07493	---
Un-upholstered CH601 Right cushion	13-07494	---

PS

SEAT COVERS – JET SHADES

SUPERLAMB SHEEPSKIN SEAT COVERS: NATURES OWN THERMOSTAT

The magic of 100% genuine sheepskin is quite simply that it will keep you cool in summer and warm in winter. No other natural or man-made fiber possesses the qualities of sheepskin. Whatever the temperature in your cockpit, sheepskin covers remain almost the identical temperature. Additionally, each hollow fiber absorbs up to 30% of its own weight in moisture. It keeps you dry, yet never feels wet itself. You avoid the heat and clamminess of vinyl, or even leather, because there's free flow of air between you and seat. Every cover is hand-made by master craftsmen from the finest chrome-tanned pelts, in colors to match or coordinate with any interior. Sold in pairs only, in 11 colors (request color samples when ordering). FAA Approved.
Available for the following planes: Beechcraft: Baron B-55, E-55, B-58, Bonanza V-35 (A or B), A-33, A-36, F-33A, A36TC. Cessna: 150, 152, 172, 177, 180, 182, 185, 210, 310, 340, 402, 414, 421. Aero Commander: 500, 600, 900, Piper: Archer, Cherokee, Warrior Tomahawk.
Specify year, make model and color choice when ordering. Car seat covers also available in same colors. Call for a price.
Superlamb Sheepskin Seat Covers (pair) ..... P/N 7736 ..... **---**
Sheepskin Samples - Order a sample then return it for a full credit after you have selected a color and ordered your seat cover. ..... P/N 13-05553 ..... **---**

COLORS AVAILABLE

Mushroom

Latte

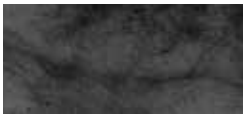
Coffee

Navy

Burgundy

Silver

Steel


Charcoal

Black

Palomino

Tawney

Sand

Cream

White

JET SHADES™ TINTED WINDOW PANELS

Unlike foil aircraft sun shades, Jet Shades are removable tinted window panels and visors designed to block harmful UV and sun glare in your aircraft cockpit both DURING FLIGHT & WHILE PARKED!
Inspired by an engineer and private pilot who was always hot in the cockpit and wrestled with sun glare on him and the instrument panel in the hot Florida sun, Jet Shades solve the problem of hot, sunny cockpits that are uncomfortable for both pilot and passengers.
• Blocks 99.9% harmful UV (See JAMA article on harmful effects of UV radiation for pilots) • Provides instant relief from solar energy • Reduces glare by 70% for better contrast and visibility on instrument panels, smartphones and tablet devices. • Minimizes eye strain and pilot fatigue caused by prolonged sun exposure • Maintains pilot & passenger comfort during high sun glare flights • Effortless removal with patented friction-tab design • Protects aircraft interior from cracking and discoloration while parked • Enhances ramp appeal by giving your aircraft a "tinted windows" look • Eliminates the need for removing and storing foil sun shades before and after flights

Specifications:
• Made with optical quality polycarbonate for clearest visibility • Blocks 72% visible light/ 99.9% UV/ 79% infrared light/ 44% solar energy • Provides 70% glare reduction • Lightweight, high impact strength, virtually unbreakable • Highly engineered product stops glare while allowing enough light in for easy navigation • Patent-pending design • Made in the USA

Description	Part No.	Price
Total Cirrus Solution SR-22/SR-22T/SR-GTS22 G3 - G6	13-22073	---
Cirrus Cockpit Solution SR-22/SR-22T/SR-GTS22 G3 - G6	13-22074	---
Cirrus Upper Windshield Shade Premium	13-22082	---
Total Columbia Solution 400/TTX	13-22083	---
Total Columbia Solution 400/TTX Upgrade Rear Window to Premium	13-22084	---
Total Diamond Da 40 Solution	13-22086	---
Total Diamond Da40 Solution Upgrade	13-22087	---
Diamond DA 40 Canopy Solution	13-22088	---
Eclipse 500/550 Cockpit Solution	13-22090	---
Eclipse 500/550 Cockpit Solution Upgrade	13-22091	---
Cessna 172	13-23659	---
Cessna 182	13-23660	---
Columbia 400 TTX	13-23661	---
Columbia 300 - 350	13-23662	---
Bonanza 35 - 36	13-23664	---
Baron 55 - 58	13-23665	---
Robinson	13-23663	---

PS

SUN VISORS

ROSEN SUN VISOR SYSTEM

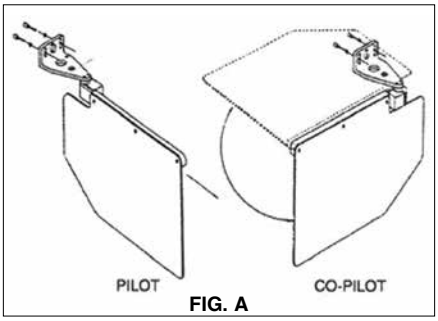


FIG. A

FIG. B

Attention: Products noted in "Application Guide" with an (*) are sold in pairs.
Don't fly blind! Give yourself and your passengers that extra margin of safety. These are transparent sun visors which rotate and extend to offer complete cockpit protection form the sun. The oversize, tinted lens filters out 95% of the ultraviolet rays, reduces glare by 94% and heat by 86%. Distortion free. Fully STC'd and PMA'd. The system, which includes pilot and co-pilot visors, installs in minutes (exceptions: Cessna non-pressurized 210 requires 1-1/2 hours, Cessna 152 requires rivnut installation by an A&P).

Aircraft	Part No.	Price
BEECH - Bonanza/Baron, standard	7568*	---
Bonanza/Baron, 2- Axis replacement lens	13-18718	---
Bonanza/Baron, 3rd Axis option	7311*	---
Duke	7738*	---
King Air	13-01927*	---
King Air 200 Monorail with visors (not for A200)	13-12787	---
PIPER - Comanche, All models,standard	7809*	---
Comanche, Third Axis option	7924*	---
Aerostar Monorail System	13-15027	---
Cheyenne Monorail system w/visors	13-15028	---
Malibu Mirage Monorail System	13-15030	---
Malibu Meridian Monorail System	13-15031	---
Arapaho Comanche	13-07454*	---
Cherokee, Center mount	13-01315*	---
Cherokee, swivel stud	13-01316*	---
Seneca	13-01317*	---
CESSNA 1980 and later - 170's to 206's (except 177's) Center Mount	7629*	---
All 150's and 152's. Prior to 1980 - 170's - 206's (except 177's) Side Mount	7006*	---
Cessna 2- Axis replacement lens	13-18343	---
210's w/o air cond. (Older 210's, see above)	7152*	---
P210's and 210's w/air conditioning	7426*	---
177's	7582*	---
T303	13-01928*	---
310s & 340s, special order to replace units with ball-joint cover style visor only (shown)	7687*	---
337	13-01308*	---
320	13-01311*	---
350/400	13-06044*	---
400	13-01312*	---
400 Monorail with visors	13-14937	---
412B	13-05180*	---
Citation 500/501 Monorail with Visors SN>213/	13-14938	---
Citation 3rd Axis Visor Assy.	13-14940*	---
Citation III Monorail with visors	13-14941	---
Mustang Monorail System	13-14942	---
Mustang w/ 3rd Axis Visor Assy.	13-15008	---

Aircraft	Part No.	Price
GRUMMAN - Cheetah	13-01313*	---
RV-10 - Rosen Sun Visor Set - RV-10	13-05695*	---
Rosen Sun Visor - Pilot Side	13-05696	---
MAULE	13-02471*	---
Rockwell Commander 114	13-03328	---
OTHERS*		
Cirrus SR20 / SR22	13-03258*	---
Lancair IV	13-01934*	---
Aero Commander Monorail System w/ Visors	13-14850	---
Aero Commander Replacement Lens Only	13-14928*	---
Aero Commander Visor Assy. Only	13-14930*	---
Bell 206 Jet Ranger Monorail w/ Visors	13-14931	---
Bell 206 Long Ranger Monorail w/ Visors	13-14932	---
Bell 206 Jet Ranger with AC Monorail System	13-14933	---
Bell 222 Monorail System w/ Visors	13-14934	---
BK117 Monorail System w/ Visors	13-14935	---
BAC1/11 Monorail System w/ Visors	13-14936	---
Challenger 600,601, 604 Monorail System w/ Visors	13-15009	---
Challenger 600, 601, 604 Replacement Lens	13-15010	---
Challenger 600, 601, 604 Visor Assy Only	13-15011	---
Falcon 20 Monorail System w/ Visors	13-15012	---
Falcon 50 200 Monorail System w/ Visors	13-15016	---
Gulfstream I, II Monorail System w/ Visors	13-15017	---
Gulfstream III Monorail System w/ Visors	13-15018	---
Gulfstream iV Long Beach Monorail System w/ Visors	13-15019	---
Gulfstream IV Savannah Monorail System w/ Visors	13-15020	---
Gulfstream 200 Galaxy Monorail System w/ Visors	13-15022	---
Hawker 700 Monorail System w/ Visors	13-15023	---
Hawker 750, 800, 850, 800XP, 850XP, 900XP, 1000 Monorail	13-15024	---
Lear 45 Monorail System w/ Visors Standard Size Lens	13-15025	---
Lear 45 Monorail System w/ Visors Small Size Lens	13-15026	---
Zenith 701/750	13-24064	---
Homebuilders Universal surface mount	13-03175*	---
Homebuilders Universal tube mount	13-03176*	---

Homebuilders Universal systems are specific order & built to your specs

ROSEN THIRD AXIS UPDATE KIT: This update kit will fit any Rosen system that does not come standard with third axis option (Piper systems, for examples, come with third axis stanard).....P/N 13-04014.....---

ROSEN RED KNOB KIT

Red Knob Kit 99-701-KIT includes Red tensioning knob (99-701), spring (B-19679), and washer (90295A110).
Notes: Parts not sold separately, only as a kit. The kit is compatible with any of Rosen Sunvisor Systems' New Swinging Arm (NSA) systems. .....P/N 13-22304.....---

ROSEN LSA ACCORDION SHADES

Rosen LSA Accordion Shades. **Specifications:** • Accordion Shade - Single 18'W X 21'L • Accordion Shade - Double - 30'W X 25'L
Single.....P/N 13-22938 .....--- Double.....P/N 13-22994 .....---

PS

SUN VISORS – SUN SHIELDS

KENNON SUPER SUN SHIELDS

The most durable sun shield on the market has a clear polyester coating to protect the plexiglass windows. Heat can permanently damage the interior and avionics in your aircraft. The secret is a material with two surfaces of aluminum separated by trapped air. This combination reflects 97% of radiant heat, an insulation value of R-9 equivalent to two inches of fiberglass. Kennon Extra Firm shields fit snugly, and maintain their shape for a tight fit. They install in no time, and roll up for storage in compact, water-repellent bags. Weight is 1Lb. Available for most aircraft, specify year, make and model. For custom shields, specify exact size of windshield & windows. Also available for cars. Fabric edging insures snug fit & durability.
Developed for the US Military and used on most aircraft deployed to the desert where temperatures often exceed 115F degrees.
General Aviation: Single engine pistons (ie Cessna 172, Piper PA-28, etc)
General Aviation ..... P/N 7672 ..... ---

SUN-FOIL SUNSCREENS

Sun-Foil aircraft sunscreens protect the Aircraft Interior - 97% of radiant heat is reflected, and UV protection prevents cracking and discoloration. The Gold Standard Since 1989!
The Sun-Foil Difference
Protects Aircraft Interior - 97% of radiant heat is reflected, and UV protection prevents cracking and discoloration. Keeps Cockpit Cooler - Drop cockpit temperatures as much as 68 degrees compared to an unprotected cockpit
Prevents Heat Related Avionics Failure - Protects sensitive components from heat and enhances pilot comfort.
Integrated Protection - Our exclusive layer of hand-rolled gold or silver Mylar laminate provides additional rigidity and durability. Strategically placed suction cups combine with a friction fit to ensure your Sun-Foils are always in place, protecting your expensive investment.
Secures Avionics Panel - Complete screen sets are an effective deterrent to common avionics theft
Built-In Storage - Sun-Foils roll easily and are secured with an attached Velcro strap. They are easily stored in a custom-fit bag (included with each set) with a personalized ID tag.
Lifetime Workmanship Guarantee - Sun-Foil stands behind their products. Sun-Foils will be replaced at no charge in the event of damage due to defects in materials or workmanship. Suction cups are replaced at no charge throughout the lifespan of your Sun-Foils, at no charge.
Features: • Strategically placed suction cups that work with a friction fit to ensure Sun-Foils always stay in place. • Double stitched protective border • Military grade double layer bubble insulation • Exclusive added layer of highly polished gold or silver Mylar enhances appearance and reflectivity
Front Only ..... P/N 13-22381 ..... ---
Cockpit Set ..... P/N 13-22382 ..... ---
Full Set ..... P/N 13-22383 ..... ---

SUN-FOIL AIRCRAFT SUNSCREENS FOR TURBOPROP AND BUSINESS JET AIRCRAFT

• Strategically placed suction cups that work with a friction fit to ensure Sun-Foils always stay in place.
• Double stitched protective border
• Military grade double layer bubble insulation
• Exclusive added layer of highly polished gold or silver Mylar enhances appearance and reflectivity.
P/N 13-22387 ..... ---

ADJUSTAVISOR

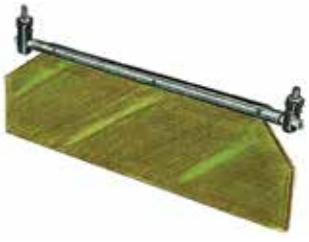
The Adjustavisor, a clip-on unit that virtually doubles the effective range of stock visors, adds contrast, and reduces glare and fatigue. Available with smoke polycarbonate lens with UV protection. There's also a suction cup model for aircraft with canopies. The cups are strong enough and the visor assemblies light enough that they stay attached to any window through most any maneuver. Size:3.5"x 12".
Clip-on (yellow) ..... P/N 13-03264 ..... ---
Clip-on (smoke) ..... P/N 13-03263 ..... ---
Suction (smoke) ..... P/N 13-03261 ..... ---

ROSEN VANS RV 6-7-9 ARC SUNVISOR

The Van's RV 6-7-9 Sliding Canopy ARC Sunvisor System design provides Van's RV 6-7-9 aircraft owners flexible, multi-axis sun attenuation, glare reduction and pilot comfort during standard cockpit flight operations.

Description	Part No.	Price
Rosen Vans Rv 6-7-9 ARC Sunvisor Assembly	13-16034	---
Rosen Vans Rv 6-7-9 ARC Pilot Replacement Lens	13-16035	---
Rosen Vans Rv 6-7-9 Co-pilot ARC Replacement Lens	13-16036	---

UNIVERSAL SUNVISOR FOR HOMEBUILT AIRCRAFT



Universal Swivel Mounts - simplify installation into most homebuilt aircraft! Lightweight hardware and optical quality bronze acrylic visor. Designed, and visor tint specified, by eye doctor/pilot Dr. Steven DeGroff, to reduce, high-altitude and ocular media small-particle scatter and enhance vision at dusk, after sunset, when scotopic vision is used. Hundreds of same class visors are field-approved and in use in the Comanche fleet.
P/N 13-07443 ..... ---

ROSEN MONORAIL IPAD / IPAD MINI UNIVERSAL MOUNTS

Designed to attach to any Rosen Monorail, the Rosen Universal iPad mount system provides a convenient and adjustable deployment. The large version will accommodate iPads in OtterBox or similar sized cases, while the standard model is delivered with two hook choices to fit all regular-sized cases as well as bare iPads. **Note**: it will accommodate all of size iPads except the new iPad Pro 12.9. Currently it wont open up far enough for the larger Pros. The Mini and Standard models, however, are no problem. Designed to attach to any Rosen monorail. Convenient and fully adjustable. Quick and easy stowage against the headliner.
Large Cases ..... P/N 13-20666 ..... ---
Standard Cases/Bare ..... P/N 13-20667 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RAM MOUNT DARK GREEN SUN VISORS

The precision laser cut cast acrylic 8"x13" sun visor offers ideal blockage of glare while ensuring no obstruction or distortion of view. The dark green 50% tint is ideal for blocking sun and glare in a variety of applications. The RAM-B-166-326-VIS-G1U includes a 1" ball and complete suction cup mounting kit. The double ball and socket arm with a swivel feature in the center makes adjustment simple and effortless. This mount can be easily configured for left or right handed use as well as pilot and co-pilot use.

Ball and Suction Cup.....P/N 11-13584 ..... ---
1"' Ball Only.....P/N 11-14911 ..... ---

PIPER SUNVISOR CATCHES

Many Piper aircraft have the same problem. The sun visor catches lose to stability, because the UV effect allows the plastic to become porous. These Piper Sunvisor Catches are made from a blended poly-plastic with a UV additive that will prevent UV corrosion. A set contains two pieces with the required plastic rivets. They are available in white and black (used in Piper PA-38 Tomahawk). The set for the Piper Tomahawk contains two extra rivets.

White .....P/N 13-04187 ..... ---
Black.....P/N 13-04188 ..... ---

KENNON COWL PLUGS

Kennon cowl plugs are constructed from red Aqualon over 2" thick foam and feature a binding around the outer edge of each plug so there is a tight seal which fits snugly in the cowl. This lip prevents the plugs from slipping inside the opening. A safety strap goes around the prop so if by chance you forget to remove the plugs, the prop will remove them for you. These cowl plugs install easily and comes with their own storage bag. Specify aircraft make, model & year when ordering. Include aircraft registration number to be printed on plugs at no extra charge.

Single engine plugs.....P/N 13-14111 ..... ---

CUSTOM FIT COWL PLUGS

Cowl plugs are tailored to fit popular Cessna single engine aircraft. High visibility yellow closed cell foam will not retain moisture. Printed on one side is "Remove Before Starting Engine", and the other is blank for the N number. They are joined by a nylon strap with a fluorescent orange "Remove Before Flight" flag.

C-172 (1965+) .....P/N 13-02625 ..... ---
C-182 (1972.5 - 1989).....P/N 13-02630 ..... ---
Universal kit w/square inlets (Sqr blocks you cut to fit)
P/N 13-02645 .....**---/pr**

UNIVERSAL TINT - TRAVELING PLANE KIT

This Universal Kit is the perfect choice for everyone! The shape is a rectangle with rounded edges. 10" X 15.5". It will stick to any window that you want to protect yourself from the bright sunlight glare, damaging UV rays while blocking out heat. Includes Carrying Kit .....P/N 13-21878 ..... ---

PILOT ARMOR™ GENERAL PURPOSE SUNSHADES

This general purpose sunshade provide "spot relief" on windows of any size. They are easily attached and removed to provide sun and glare protection wherever you need it. Made of commercial grade exterior polyester blended Sun Protection screen that has been treated and sealed with a reflective polymer which gives the fabric its protective features. It is very durable, will not mildew, or fade. Tear and dirt resistant, the fabrics stand up to tough conditions and continue to look fresh for years. It is easily maintained with a mild detergent or a cockpit "wet-nap". • Excellent solar protection-eliminates up to 86% of the sun's rays, excellent thermal reflective features • Ideal compromise between solar protection and light transparency • Provides significant external visibility • For use on the ground or in the air • Will not damage acrylic windows.

Size	Part No.	Price	Size	Part No.	Price
9.5"x6"	13-09666	---	15"x22"	13-09662	---
11"x6"	13-09665	---	16"x16"	13-09663	---
16"x9"	13-09664	---			

SUNGUARD SLAP ON SUN VISOR

Sunguard is a transparent polymer, that will statically attach to any smooth surface (windows in cars, boats, aircraft, RV's and homes). It is available in "olive green" tinted shade and absorbs approximately 78% of the light spectrum.

6X9 .....P/N 13-08666 ..... ---
9X12 .....P/N 13-08667 ..... ---

JUST PLANE TINT SLAP SHADE

This is a full Block Off Kit, it is the same size as the Universal Kit, made to be put anywhere and block the sunlight 100%, includes carrying case.
15" X 10.5"
Black .....P/N 13-22143 ..... ---

ARMOUR GUARD DARK GREEN POLYCARBONATE VISOR

• Premium Optical Clarity • Meets or exeeds ANSI Z87.1, CE, and other international Certification specifications • Universal Compatability • Made in USA • Size: 9 x 15.5 x 0.04.
P/N 12-05517 ..... ---

BRUCES INSULATED HANGAR BLANKET

Insulated Hangar Blanket, Interior use for 2-place high wing aircraft.
This item comes in red only.
Protect your airplane's engine inside a cold winter hangar with reasonably priced Insulated Hangar Blankets.
Excellent protection against the cold when used indoors with an engine warming heat source. The Original and World's Finest Aircraft Covers for Airplanes, Jets, Helicopters, Gliders and QEC Off-link Jet Engines. Once the material for each order is cut into its appropriate parts, highly trained sewing machine operators meticulously assemble the products with durable thread, rivets, and canvas trim.

High Wing, 2 Place.....P/N 13-21100 ..... ---
High Wing, 4 Place.....P/N 13-21103 ..... ---
Low Wing, 2 Place .....P/N 13-21102 ..... ---
Low Wing, 4 Place .....P/N 13-21104 ..... ---

GOT YOUR SIX AVIATION FLEXIBLE COCKPIT SUN SHADES

The Got Your Six Sun Shade is a highly portable, easy to store, and easy to use for pilots with only one hand available for placement. Easily conforms to various curvatures of windscreen or side windows. A great low cost investment to save your interior and panel, without the expense of custom made sunshades! **Features**: • 14.5" x 17" rounded oval shape • Easily installed with one hand and moved quickly • Package contains TWO sun shades and TWO suction cups • Place two sun shades under one Suction cup for extra sun protection!.....P/N 11-13316 ..... ---

PS

JUST PLANE SHADES

Just Plane Shades window shades are reusable airplane window shades made from the darkest vinyl tint available. Installed directly onto the inside window of the aircraft, this product will cut glare from the sun, block out 90% of UV rays and keep the cockpit significantly cooler while flying. Each piece is custom cut for it's specified aircraft model.
Developed by a commercial airline pilot, Just Plane Shades is easy to use, packs up small and goes with you from flight to flight. To apply there is no need for pre-prep or adhesives. After use just peel it off, fold it up and take it with you! Fly cool and glare free!

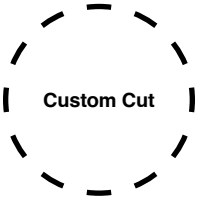
JUST PLANE SHADES FOR BEECHCRAFT 36 SERIES - BONANZA

Shade Position	Part Number	Price
Complete Set	13-24075	---
Cockpit - Left	13-24076	---
Cockpit - Right	13-24077	---
Row 1	13-24078	---
Row 2	13-24079	---
Row 3	13-24080	---

JUST PLANE SHADES FOR MOONEY M20

Shade Position	Part Number	Price
Complete Set	13-24145	---
Cockpit Left	13-24146	---
Cockpit Right	13-24147	---
Row 1	13-24148	---
Windshield (Left or Right)	13-24149	---

JUST PLANE SHADES CUSTOM CUT WINDOW SHADE



This custom option allow a window shade to match your exact application. Provide a tracing and a reusable airplane window shade will be made from the darkest vinyl tint available to match your exact need. Installed directly onto the inside window of the aircraft, this product will cut glare from the sun, block out 90% of UV rays and keep the cockpit significantly cooler while flying. Each piece is custom cut for it's specified aircraft model.
Developed by a commercial airline pilot, Just Plane Shades is easy to use, packs up small and goes with you from flight to flight. To apply there is no need for pre-prep or adhesives. After use just peel it off, fold it up and take it with you! Fly cool and glare free!

P/N 13-24130 ..... ---

SEE OUR WEBSITE FOR PART NUMBERS & PRICING!

JUST PLANE SHADES FOR CESSNA 172

Shade Position	Part Number	Price
Complete Set	13-24109	---
Cockpit	13-24110	---
Row 1	13-24111	---
Rear - Right or Left	13-24112	---
Roof (Set of 2)	13-24113	---

JUST PLANE SHADES FOR PIPER PA-31 NAVAJO

Shade Position	Part Number	Price
Complete Set	13-24172	---
Cockpit	13-24173	---
Row 1 or 2	13-24174	---
Row 3	13-24175	---
Row 4	13-24176	---

JUST PLANE SHADES FOR BOMBARDIER AIRCRAFT

Airframe	Shade Position	Part Number	Price
Challenger 300	Cockpit	13-24101	---
CRJ	Side Window	13-24102	---
CRJ	Windshield	13-24104	---

JUST PLANE SHADES GENERIC SHADE SQUARES

These generic window shades measure 13" x 13" and allow you to use the darkest vinyl tint available in any fitting application. Pack includes 2. Installed directly onto the inside window of the aircraft, this product will cut glare from the sun, block out 90% of UV rays and keep the cockpit significantly cooler while flying. Each piece is custom cut for it's specified aircraft model.
Developed by a commercial airline pilot, Just Plane Shades is easy to use, packs up small and goes with you from flight to flight. To apply there is no need for pre-prep or adhesives. After use just peel it off, fold it up and take it with you! Fly cool and glare free!

P/N 13-24140 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BRUCE'S CUSTOM COVERS

BRUCES CUSTOM CANOPY COVERS

Canopy Covers help reduce damage to your airplane's upholstery and avionics caused by excessive heat, and they can eliminate problems caused by leaking door and window seals. They keep the windshield and window surfaces clean and help prevent vandalism and theft. When requested, it is also sometimes possible to design Canopy covers that can attach to the aircraft fuselage using pop-riveted snap-heads at the rear and snap-head screws on the engine cowl. The Canopy Cover is custom sewn and the corners are trimmed to match the colors of the airplane. The airplane's registration number can be imprinted onto both sides of the cover for an additional charge. A duffle bag is included with all Canopy Covers. Made from Silver Acrylic Sunbrella or Silver Solution-Dyed Polyester and is lined 100% with a soft and smooth microfiber. The outer material is medium-weight and treated for water resistance, UV resistance and anti-static buildup. The inner lining is a very soft and smooth microfiber to prevent scratching. Does not contain hydrocarbon compounds that can harm Plexiglas windshields and acrylic finishes. Other colors are available. Please contact us for availability and price. Light weight material available.

Description	Part No.	Price
C350 & C400 CoRValis, CoRValis TT	13-15233	---
Cessna 150 & 152 Wrap-around Style	13-15126	---
Cessna 170 Wrap-around Style	13-15141	---
Cessna 172 & 175 (T-41, T-41a/c) Wrap-around Style	13-15157	---
Cessna 177 Cardinal Wrap-around Style	13-15172	---
Cessna 180/185 Skywagon Wrap-around Style	13-15185	---
Cessna 182 Skylane Wrap-around Style	13-15210	---
Cessna 206 Stationair Wrap-around Style	13-15217	---
Cessna 210 Centurion Wrap-around Style	13-15226	---
Travel Canopy Cover C350 & C400	13-15234	---
Travel Canopy Cover Cessna 150 & 152 Wrap-around Style	13-15127	---
Travel Canopy Cover Cessna 170 Wrap-around Style	13-15142	---
Travel Canopy Cover Cessna 172 & 175 Wrap-around Style	13-15159	---
Travel Canopy Cover Cessna 177 Cardinal Wrap-around Style	13-15173	---
Travel Canopy Cover Cessna 180/185 Skywagon Wrap-around Style	13-15186	---
Travel Canopy Cover Cessna 182 Skylane Wrap-around Style	13-15211	---
Travel Canopy Cover Cessna 206 Stationair Wrap-around Style	13-15218	---
Travel Canopy Cover Cessna 210 Centurion Wrap-around Style	13-15227	---
Beech Bonanza/Debonair	13-15089	---
Beech Bonanza 36 Models	13-15099	---
Beech Baron 58	13-15111	---
Travel Canopy Cover Beech Bonanza/Debonair	13-15090	---
Travel Canopy Cover Beech Bonanza 36 Models	13-15101	---
Travel Canopy Cover Beech Baron 58	13-15112	---
Diamond DA20, Katana, Eclipse	13-15263	---
Diamond DA40	13-15270	---
Travel Canopy Cover Diamond DA20, Katana, Eclipse	13-15264	---
Travel Canopy Cover Diamond DA40	13-15271	---
Grumman AA1	13-15277	---
Grumman AA5	13-15286	---

Description	Part No.	Price
Travel Canopy Cover Grumman AA1	13-15278	---
Travel Canopy Cover Grumman AA5	13-15287	---
Lancair Columbia 300, 350, 400	13-15296	---
Lancair Models 320, 360	13-15307	---
Lancair IV	13-15317	---
Travel Canopy Cover Lancair Columbia 300, 350, 400	13-15297	---
Travel Canopy Cover Lancair Models 320, 360	13-15308	---
Travel Canopy Cover Lancair IV	13-15318	---
Mooney Early M20 Series	13-15327	---
Mooney 201, 205, 231, 252 & MSE	13-15337	---
Mooney Ovation	13-15347	---
Mooney TLS, Bravo, Acclaim TN, Type S, & Porsche Powered Models	13-15367	---
Travel Canopy Cover Mooney Early M20 Series	13-15328	---
Travel Canopy Cover Mooney 201, 205, 231, 252 & MSE	13-15338	---
Travel Canopy Cover Mooney Ovation	13-15357	---
Travel Canopy Cover Mooney TLS, Bravo, Acclaim TN, Type S, & Porsche Powered Models	13-15368	---
Piper PA-24 Comanche	13-15377	---
Piper PA-28	13-15388	---
Piper PA-32	13-15399	---
Travel Canopy Cover Piper Pa-24 Comanche	13-15378	---
Travel Canopy Cover PA-28	13-15389	---
Travel Canopy Cover Piper PA-32	13-15401	---
Vans Aircraft RV-10	13-15409	---
Vans Aircraft RV-12	13-15420	---
Vans Aircraft RV-6/6A	13-15429	---
Vans Aircraft RV-7/7A	13-15436	---
Vans Aircraft RV-8/8A	13-15443	---
Vans Aircraft RV-9/9A	13-15451	---
Travel Canopy Cover Vans Aircraft RV-10	13-15410	---
Travel Canopy Cover Vans Aircraft RV-12	13-15421	---
Travel Canopy Cover Vans Aircraft RV-6/6A	13-15430	---
Travel Canopy Cover Vans Aircraft RV-7/7A	13-15437	---
Travel Canopy Cover Vans Aircraft RV-7/7A	13-15444	---
Travel Canopy Cover Vans Aircraft RV-9/9A	13-15452	---

BRUCES CUSTOM WING COVERS

The Wing Covers are a perfect solution to protect your paint from sun damage and prevent winter frost, snow, ice buildup, and corrosion. They are made from Solution-Dyed Polyester or Acrylic Sunbrella and form-fit to slip around each wing tip, cover the entire upper surface of the wing and wrap around the leading and trailing edges. The covers secure under the wing with adjustable straps from the trailing edge to the leading edge. The wing covers can also attach to each other with adjustable straps at the leading and trailing edges of the wing under the belly of the plane. We have the ability to also accommodate wing tip modifications, such as STOL kits, droop tips, and vortex generators. Labeled LEFT and RIGHT for your convenience. Hail Protection version can be made. Set of 2.

Description	Part No.	Price
Cessna 150 & 152	13-15134	---
Cessna 170	13-15147	---
Cessna 172 & 175	13-15164	---
Cessna 177 Cardinal	13-15178	---
Cessna 180/185 Skywagon	13-15192	---
Cessna 182 Skylane	13-15193	---
Cessna 206 Stationair	13-15194	---
Cessna 210 Centurion	13-15196	---
C350 & 400 Corvalis, Corv TT	13-15198	---
Beech Bonanza/Debonair	13-15094	---
Beech Bonanza 36 Models	13-15105	---
Beech Baron 58	13-15117	---
Cirrus SR20	13-15199	---
Cirrus SR22	13-15201	---
Diamond DA-20, Katana, Eclipse	13-15202	---
Diamond DA-40	13-15203	---
Grumman AA5: Tiger, Cheetah, Traveler	13-15291	---
Horizontal Stabilizer Covers Grumman AA	13-15292	---
Grumman AA1	13-15205	---

Description	Part No.	Price
Lancair Columbia 300,350,400	13-15302	---
Lancair Models 320,360	13-15312	---
Lancair Iv	13-15322	---
Mooney Early M20 Series	13-15332	---
Mooney 201, 205, 231, 252 & Mse	13-15342	---
Mooney Ovation	13-15362	---
Mooney TLS, Bravo, Acclaim TN, Type S, & Porsche Powered Models	13-15372	---
Piper PA-24 Comanche	13-15383	---
Piper PA-28	13-15393	---
Piper PA	13-15405	---
Vans Aircraft RV-4-WCW	13-16013	---
Vans Aircraft RV-10	13-15414	---
Vans Aircraft RV-12	13-15425	---
Vans Aircraft RV-6/6a	13-15434	---
Vans Aircraft RV-7/7a	13-15441	---
Vans Aircraft RV-8/8a	13-15448	---
Vans Aircraft RV-9/9a	13-15456	---

BRUCE'S CUSTOM COVERS

BRUCE'S CUSTOM HORIZONTAL STABILIZER COVERS

Horizontal Stabilizer Covers are a perfect solution to protect your paint from sun damage and prevent frost, snow, ice buildup, and corrosion. They are made from Solution-Dyed Polyester or Acrylic Sunbrella. They cover the entire upper surface of the stabilizers and overlap around the leading and trailing edges as well as the wing tip. The covers secure under each stabilizer with adjustable straps. In some instances, cut-outs are made in the trailing edge of the wing covers to accommodate for static wicks. Horizontal Stabilizer Covers for winter use or long-term all year use are usually available, and are normally made from Solution-Dyed Polyester or Acrylic Sunbrella. A Hail Protection version can be made. Although these covers are bulky, they do help protect your wing and control surfaces against small to medium-size hail. **Set of 2 - Winter Use**

Description	Part No.	Price
C150 & 152	13-15136	---
C170	13-15148	---
C172 & 175	13-15166	---
C177 Cardinal	13-15179	---
Cessna 180/185 Skywagon	13-15206	---
Cessna 182 Skylane	13-15214	---
C206 Stationair	13-15222	---
C210 Centurion	13-15230	---
C350 & C400	13-15238	---
Beech Bon/deb	13-15095	---
Beech Bon 36	13-15106	---
Beech Baron 58	13-15118	---
Cirrus SR20	13-15247	---
Cirrus SR22	13-15256	---
DA20,Katana,Eclipse	13-15268	---
Diamond DA40	13-15275	---
Grumman AA1	13-15282	---

Description	Part No.	Price
Grumman AA5	13-15292	---
Lan C300,350,400	13-15303	---
Lancair Models 320,360	13-15313	---
Lancair IV	13-15323	---
Mooney Early M20 Series	13-15333	---
M201,205,231,252 & Mse	13-15343	---
Mooney Ovation	13-15363	---
Mooney TLS, Bravo, Acclaim TN, Type S, & Porsche Powered Models	13-15373	---
Piper PA-24 Comanche	13-15384	---
Piper PA-28	13-15394	---
Vans Aircraft RV-10	13-15415	---
Vans Aircraft RV-12	13-15426	---
Vans Aircraft RV-6/6a	13-15435	---
Vans Aircraft RV-7/7a	13-15442	---
Vans Aircraft RV-8/8a	13-15449	---
Vans Aircraft RV-9/9a	13-15457	---

BRUCE'S CUSTOM ENGINE COVERS

Once the material for each order is cut into its appropriate parts, highly trained sewing machine operators meticulously assemble the products with durable thread, rivets, and canvas trim.

Description	Part No.	Price
Cessna 150 & 152	13-15132	---
Cessna 170	13-15144	---
Cessna 172 & 175	13-15162	---
Cessna 177 Cardinal	13-15176	---
Cessna 180/185 Sky Wagon	13-15189	---
Cessna 182 Skylane	13-15212	---
Cessna 206 Stationair	13-15220	---
Cessna 210 Centurion	13-15228	---
C350 & C400 Corvalis, Corvalis TT	13-15236	---
Beech Bonanza/debonair	13-15092	---
Beech Bonanza 36 Models	13-15103	---
Beech Baron 58	13-15114	---
Cirrus SR20	13-15245	---
Cirrus SR22	13-15254	---
Diamond DA20, Katana, Eclipse	13-15266	---
Diamond DA40	13-15273	---
Grumman AA1	13-15280	---
Grumman AA5	13-15289	---
Lancair Columbia 300, 350, 400	13-15299	---
Lancair Models 320, 360	13-15310	---
Lancair IV	13-15320	---
Mooney Early M20 Series	13-15330	---
Mooney 201, 205, 231, 252 & MSE	13-15340	---
Mooney Ovation	13-15360	---
Mooney TLS, Bravo, Acclaim TN, Type S, & Porsche Powered Models	13-15370	---
Piper PA-24 Comanche	13-15381	---
Piper PA-28	13-15391	---
Piper PA-32	13-15403	---
Vans Aircraft RV-10	13-15412	---
Vans Aircraft RV-12	13-15423	---
Vans Aircraft RV-6/6A	13-15432	---
Vans Aircraft RV-7/7A	13-15439	---
Vans Aircraft RV-8/8A	13-15446	---
Vans Aircraft RV-9/9A	13-15454	---
Insulated/cold Weather Engine Cover Beech Bon/Deb	13-15093	---
Insulated/cold Weather Engine Cover Beech Bonanza 36	13-15104	---
Insulated/cold Weather Engine Cover Beech Baron 58	13-15116	---
Insulated/cold Weather Engine Cover Cessna 150 & 152	13-15133	---

Description	Part No.	Price
Insulated/cold Weather Engine Cover Cessna 170	13-15146	---
Insulated/cold Weather Engine Cover Cessna 172 & 175	13-15163	---
Insulated/cold Weather Engine Cover 177 Card	13-15177	---
Insulated/cold Weather Engine Cover Cessna 180/185	13-15190	---
Insulated Cold Weather Engine Cover C182 Skylane	13-15213	---
Insulated Cold Weather Engine Cover C206 Stationair	13-15221	---
Insulated Cold Weather Engine Cover C210 Centurion	13-15229	---
Insulated Cold Weather Engine Cover C350 & C400	13-15237	---
Insulated Cold Weather Engine Cover Cirrus SR20	13-15246	---
Insulated Cold Weather Engine Cover Cirrus SR22	13-15255	---
Insulated Cold Weather Engine Cover DA20	13-15267	---
Insulated Cold Weather Engine Cover DA40	13-15274	---
Insulated Cold Weather Engine Cover Grumman AA1	13-15281	---
Insulated Cold Weather Engine Cover Grumman AA5	13-15290	---
Insulated Cold Weather Engine Cover Lan C300,350,400	13-15301	---
Insulated Cold Weather Engine Cover L320 & L360	13-15311	---
Insulated Cold Weather Engine Cover Lancair IV	13-15321	---
Insulated Cold Weather Engine Cover M20	13-15331	---
Insulated Cold Weather Engine Cover M201, 205, 231, 252	13-15341	---
Insulated Cold Weather Engine Cover Mooney Ovation	13-15361	---
Insulated Cold Weather Engine Cover Mooney Tls, Bravo, Acclaim, Tn, Type S & Porche Powered Models	13-15371	---
Insulated Cold Weather Engine Cover Piper PA-24 Comanche	13-15382	---
Insulated Cold Weather Engine Cover Piper PA-28	13-15392	---
Insulated Cold Weather Engine Cover Piper PA-32	13-15404	---
Insulated Cold Weather Engine Cover Vans A/C RV-10	13-15413	---
Insulated Cold Weather Engine Cover Vans A/C RV-12	13-15424	---
Insulated Cold Weather Engine Cover Vans RV-6	13-15433	---
Insulated Cold Weather Engine Cover Vans A/C RV-7	13-15440	---
Insulated Cold Weather Engine Cover Vans A/C RV-8	13-15447	---
Insulated Cold Weather Engine Cover Vans A/C RV-9	13-15455	---

PS

BRUCE'S CUSTOM COVERS

BRUCE'S CUSTOM HEATSHIELDS

Heatshield Interior Reflectors are made of a special laminate of metallized polyester film and closed cell foam. Less than 1/8" thick, the Reflector can roll up and store in a sleeve, yet is stiff enough when flat to stand up against the windshield using the sun visors and window framing only. On some designs no Velcro or suction cups are necessary. Heatshields are an excellent short-term remedy for cockpit overheating, but use the Canopy Cover for more effective and practical long term protection. Heatshields should not be used on polarized windows.

Description	Part No.	Price
Heatshield Set Cessna 150 & 152	13-15138	---
Heatshield Set Cessna 170	13-15151	---
Heatshield Set Cessna 172 & 175	13-15168	---
Heatshield Set Cessna 177 Cardinal	13-15182	---
Heatshield Set Cessna 180/185 Skywagon	13-15208	---
Heatshield Set Cessna 182 Skylane	13-15216	---
Heatshield Set Cessna 206 Stationair	13-15224	---
Heatshield Set Cessna 210 Centurion	13-15232	---
Heatshield Set C350 & C400 Corvalis, Corvalis TT	13-15240	---
Windshield Heatshield Cessna 150 & 152	13-15137	---
Windshield Heatshield Cessna 170	13-15149	---
Windshield Heatshield Cessna 172 & 175	13-15167	---
Windshield Heatshield Cessna 177 Cardinal	13-15181	---
Windshield Heatshield Cessna 180/185 Skywagon	13-15207	---
Windshield Heatshield Cessna 182 Skylane	13-15215	---
Windshield Heatshield Cessna 206 Stationair	13-15223	---
Windshield Heatshield Cessna 210 Centurion	13-15231	---
Windshield Heatshield C300 & C450	13-15239	---
Heatshield Set Beech Bonanza/Debonair	13-15097	---
Heatshield Set Beech Bonanza 36 Models	13-15108	---
Heatshield Set Beech Baron 58	13-15122	---
Windshield Heatshield Beech Bonanza/Debonair	13-15096	---
Windshield Heatshield Beech Bonanza 36 Models	13-15107	---
Windshield Heatshield Beech Baron 58	13-15119	---
Heatshield Set Cirrus SR20	13-15249	---
Heatshield Set Cirrus SR22	13-15258	---
Windshield Heatshield Cirrus SR20	13-15248	---
Windshield Heatshield Cirrus SR22	13-15257	---

Description	Part No.	Price
Heatshield Set Grumman AA1	13-15284	---
Heatshield Set Grumman AA: Tiger, Cheetah, traveler	13-15294	---
Windshield Heatshield Grumman AA1	13-15283	---
Windshield Heatshield Grumman AA5	13-15293	---
Heatshield Set Lancair Columbia 300, 350, 400	13-15305	---
Heatshield Set Lancair IV	13-15325	---
Windshield Heatshield Lancair Columbia 300, 350, 400	13-15304	---
Windshield Heatshield Lancair Models 320,360	13-15314	---
Windshield Heatshield Lancair IV	13-15324	---
Heatshield Set Mooney Early M20 Series	13-15335	---
Heatshield Set Mooney 201, 205, 231, 252 & MSE	13-15345	---
Heatshield Set Mooney Ovation	13-15365	---
Heatshield Mooney TLS, Bravo, Acclaim TN, Type S, & Porsche Powered Models	13-15375	---
Windshield Heatshield Mooney Early M20 Series	13-15334	---
Windshield Heatshield Mooney 201, 205, 231, 252 & MSE	13-15344	---
Windshiled Heatshield Mooney Ovation	13-15364	---
Windshield Heatshield Mooney TLS, Bravo, Acclaim TN, Type S, & Porsche Powered Models	13-15374	---
Heatshield Set Piper PA-24 Comanche	13-15386	---
Heatshield Set Piper PA-28	13-15397	---
Heatshield Set Piper PA-32	13-15407	---
Windshield Heatshield Piper PA-24 Comanche	13-15385	---
Windshield Heatshield Piper PA-28	13-15395	---
Windshield Heatshield Piper PA-32	13-15406	---
Heatshield Set Vans Aircraft RV-10	13-15418	---
Windshield Heatshield Vans Aircraft RV-10	13-15416	---

BRUCE'S CUSTOM ENGINE INLET PLUGS

Engine Inlet Plugs are custom fit for your intakes, made with heavy-duty vinyl material, and stuffed with a single block of sculpted urethane foam. Each plug has a zipper that allows the foam to be removed and dried if necessary. Engine plugs have warning flags that are visible from the cockpit or 'remove before flight' streamers sewn onto the face of the plugs.

Description	Part No.	Price
Cessna 150 & 152	13-15131	---
Cessna 170	13-15143	---
Cessna 172 & 175	13-15161	---
Cessna 177 Cardinal	13-15174	---
Cessna 180/185 Skywagon	13-15187	---
Bruces Engine Inlet Plug Cessna 182 Skylane	13-15070	---
Bruces Engine Inlet Plug Cessna 206 Stationair	13-15072	---
C350 & C400 Corvalis, Corvalis TT	13-15235	---
Beech Bonanza/Debonair	13-15091	---
Beech Bonanza 36 Models	13-15102	---
Beech Baron 58	13-15113	---
Cirrus SR20	13-15244	---
Cirrus SR22	13-15253	---
Diamond Da20, Katana, Eclipse	13-15265	---
Diamond Da40	13-15272	---
Grumman AA1	13-15279	---
Grumman AA5	13-15288	---

Description	Part No.	Price
Lancair Columbia 300,350,400	13-15298	---
Lancair Models 320,360	13-15309	---
Lancair IV	13-15319	---
Mooney Early M20 Series	13-15329	---
Mooney 201, 205, 231, 252 & MSE	13-15339	---
Mooney Ovation	13-15359	---
Mooney TLS, Bravo, Acclaim TN, Type S, & Porsche Powered Models	13-15369	---
Piper PA-24 Comanche	13-15379	---
PA-28	13-15390	---
Piper PA32	13-15402	---
Vans Aircraft RV-10	13-15411	---
Vans Aircraft RV-12	13-15422	---
Vans Aircraft RV-6/6A	13-15431	---
Vans Aircraft RV-7/7A	13-15438	---
Vans Aircraft RV-8/8A	13-15445	---
Vans Aircraft RV-9/9A	13-15453	---

POLYURETHANE WING FUEL MAT

This polyurethane wing fuel mat can be easily cleaned with soap and water. Avoid spraying product with silicone or wd-40 type products because this material will cause dust and dirt to attach to pad possibly scratching wing surface. Color fading will not affect the integrity of the polyurethane material. Color options available at point of purchase. Dimensions: 18" x 24" x 0.30 Length and width dimensions are subject to +/- 1/8 toleranceService range: -20F - 200F. Fuel port: 5" diameter. Durable impact absorbing polyurethane. Non-Marking and Non-Abrasive, UV stable. Exposure to direct sunlight will cause color fading. Fuel Resistant and chemical resistant with the exception of MEK.

Blue .....P/N 01-01284 ..... ---
Orange.....P/N 01-01285 ..... ---
Black.....P/N 01-01286 ..... ---
Red.....P/N 01-01287 ..... ---

FUELSTICKS

Extremely light, high impact plastic tubing with aluminum rings resist damage. Available "Aircraft Specific Scales" Can be downloaded and printed from the website. Can easily be calibrated to any tank using the "Universal" scale. A worksheet, written instructions and even an instructional video are available at the website. We will generate an "Aircraft Specific Scale" from your calibration It's shipping tube doubles as a "Vented Storage Tube". This allows any remaining fuel to evaporate between uses, provides a protection for the life of the unit and reduces manufacturing waste. It's design gives consistent readings even when the fuel in the tank is sloshing around. It's upper and lower rings aide in handling. Large Easy-to-Read numbers observed outside the tank. Quantities given in both Gallons and Pounds! Color coded sections represent approx. 1/3 cruise consumption. It's not limited to your aircraft. Works in tractors, small motors, etc. Will not fall into fuel tank on most aircraft. 100% Made in the USA

Description	Usable Fuel Tank Size	Part No.	Price
Cessna 150-152	12.5 Gal.	05-12341	---
Cessna 172-A	18.5 Gal.	05-12343	---
Cessna 172	19 Gal.	05-12344	---
Cessna 172	20 Gal.	13-24026	---
Cessna 172	21.5 Gal.	05-12345	---
Cessna 172 N-Q (Long Range)	25 Gal.	05-12346	---
Cessna 172 R-S	26.5 Gal.	05-12348	---
Cessna 177	25 Gal.	05-13076	---
Cessna 177 Cardinal A-B (Including RG)	30.5 Gal.	05-12350	---
Cessna 182 A-D	27.5 Gal.	05-12351	---
Cessna 182 P	30 Gal	05-13078	---
Cessna 182 Q	37 Gal.	05-12352	---
Cessna 210 G-N (Including Turbo)	44.5 Gal.	05-12353	---
Cessna 182 T	43.5 Gal.	05-12355	---
Grumman-American General AA (AG)-5A-5B	26.3 Gal.	05-12356	---
Piper PA 12	19 Gal.	05-13081	---
Piper PA 22 160	18 Gal.	05-13082	---
Piper PA 28 151-181	24 Gal.	05-12357	---
Piper PA 28	24 Gal.	13-24025	---
Piper PA 28 150-180	24 Gal.	05-12358	---
Piper PA 28 200-235B	24 Gal.	05-12359	---
Piper 34 200 Seneca II	61.5 Gal.	05-13083	---
RV RV6A	19 Gal.	05-12360	---
RV RV7	20 Gal.	05-13084	---
RV RV8	21 Gal.	05-13085	---
RV RV10	31 Gal.	05-13086	---
Master (10.75") Includes: Ship/Storage Tube, Use and Calibration Instructions, Universal Scale Installed in Float Tube	10.75"	05-12361	---

CESSNA HIGH-WING FUEL VENT SCREEN

Fuel flow to your aircraft's engine can be compromised by insects or debris entering fuel tank vents. This remove-before-flight Fuel Vent Screen prevents contaminants from obstructing or contaminating the fuel system. The attached foot-long, florescent, and weather-resistant reflective streamer stands out equally well in daylight or darkness under all weather conditions, so it won't be forgotten during your pre-flight. Fits Cessna piston engine aircraft. Inside diameter of PVC sleeve is 0.365"

3/8 Inch.....P/N 13-10437 ..... ---
1/2 Inch.....P/N 13-12390 ..... ---

FUELING / ENGINE ACCESS WING MATS

Please specify color when ordering: Red, Light Blue, Royal Blue, Black, Green, Yellow and Safety Orange. **Features**: • Protective and durable impact absorbing Urethane-polymer • UV • Fuel • Chemical resistant • Non-marking • Non-abrasive • Exceeds FAA and military standards • -20° F to 200° F service integrity • Standard 5-inch diameter service port • Special design and private labeling available • Approved by all major oil companies, airlines, military and fuel service operations • 3 year warranty

Color	Size	Part No.	Price	Size	Part No.	Price
Red	18" x 24"	13-11206	---	18" x 36"	13-11212	---
Royal Blue		13-11207	---		13-11213	---
Orange		13-11208	---		13-11214	---
Yellow		13-11209	---		13-11215	---
Black		13-11210	---		13-11216	---
Green		13-11211	---		13-11217	---

WING MAT

This navy blue carpet can be placed on the wing prior to boarding which will protect both the wing and the aircraft interior. This mat rolls up easily for storage in the aircraft and an attached elastic band keeps it rolled up. The rubber backing is perfect for use on low wing aircraft. Two sizes available.

Small Wing 10.5" x 36" .....P/N 13-07195 ..... ---
Medium Wing 15.75" X 42".....P/N 13-24205 ..... ---
Large Wing 21" x 48".....P/N 13-07196 ..... ---

DIRECT FUEL LEVEL INDICATORS

These Direct Fuel Level Indicators are quality made of acrylic PVC tube with an aluminum scale. They are available calibrated to individual tanks or uncalibrated for custom calibration to home built tanks. These Indicators allow an accurate check of on board fuel level indicators and eliminate the guess work.

Description	Part No.	Price
Fuel Level Indicator C-150/C-152 +	12-21200	---
Fuel Level Indicator C-150 LONG 19	12-21205	---
Fuel Level Indicator C-170 / C-172	12-21210	---
Fuel Level Indicator C-172 34G	12-21215	---
Fuel Level Indicator C-182 42G	12-21230	---
Fuel Level Indicator C-210 45G	12-21240	---
Fuel Level Indicator PA-24 30G	12-21245	---
Fuel Level Indicator 7KCAB	12-21250	---
Fuel Level Indicator PA-28	12-21255	---
Home Built Universal Fuel Level Indicator CK Rod	12-21260	---

FUEL HAWK FUEL GAUGES

The Fuelhawk is just 11" long, clear lightweight and unbreakable. It's easy to use and gives an instant readout in gallons usable. No more guessing. These handy devices offer the answers to these very important questions: 1.How many gallons of usable fuel are remaining in the tank? 2.How much fuel can be added without going over gross weight? 3. Are the aircraft fuel gauges working & accurate?

Application	Part No.	Price
Cessna 152 (standard 12 gal. tanks)	13-00443	---
Cessna 172 (standard 19 gal. tanks)	13-00442	---
New Cessna 172 Skyhawk (26.5 gal.)	13-01468	---
New Cessna 182 Skylane (43.5 gal.)	13-01469	---
Cessna 182LR (42 gal. Long range tanks)	13-00441	---
Universal for any aircraft, w/graph & calibration chart	13-00439	---
Universal XL Fuel Gauge (16" long)	13-00949	---
Universal Gauge 26"	13-11189	---

THE ORIGINAL FUEL STOP

The Fuel Stop is a simple tool that snaps onto a standard straw fuel gauge and prevents the gauge from ever slipping into the tank. Works with FuelHawk, or any other 1/2" diameter fuel gauge tube. It also becomes extremely handy when it's necessary to set the gauge on the wing, as it will stay put and not roll off to disappear into the grass or onto the pavement. Shaped like a set of red pilot wings which makes finding the gauge a snap .....P/N 13-17631 ..... ---

GOCHECK PREFLIGHT 6 IN 1 MULTI-TOOL

Designed for single-engine propeller pilots and aviation mechanics; the GoCheck PreFlight Multi-Tool combines six functions in one device. Features a stall horn tester that is unique for preflight inspection and compact to store in your flight bag or clip to your belt.

Fuel Tester with Strainer, Stall Horn Tester, Dipstick Wiper, Red/White Flashlight, Phillips/flathead Screwdriver, and Checklist Reminder Card .....P/N 05-15254 ..... ---

PS

COWL PLUGS

Cowl Plugs with attached "remove before flight" streamer for general aviation aircraft. Prevents bird and foreign objects from entering through the cowl. Comes complete with a linking lanyard and remove before flight streamer. Heavy duty cross linked construction and durable nylon hand sewn stitching complete the set. Please specify aircraft make, model, & serial number when ordering. Plugs are furnished with free embroidery and pitot tube cover.

Single engine.....P/N 13-01742 ..... ---
Twin engine .....P/N 13-01743 ..... ---

PROPELLER SLINGS EXHAUST COVERS

Propeller Slings & Exhaust Covers keep your propeller secure and in place, eliminating any bearing damage caused by a free-spinning propeller with no lubrication. The integral exhaust covers protect the costly turbine wheel from debris & birds. Simple, quick one man operation. Please specify aircraft make, model, serial no. when ordering .....P/N 13-01744 ..... ---

INLET PLUGS

These protect your engine form foreign object damage, blowing dust and sand, birds and debris. Complete with remove before flight flag and easy pull handle for insertion and removal. Please specify aircraft make, model, & serial no. when ordering .....P/N 13-01745 ..... **---/ea.**

JET ENGINE COVERS

Made of extremely durable, water-proof and fire resistant Herculite, our covers are guaranteed for 10 yrs. Each set is hand crafted and sewn to order. Complete with storage bag and remove before flight flags. Please specify aircraft make, model, & serial no. when ordering.
P/N 05-04077 ....**CALL OR EMAIL FOR QUOTE**

REDWING TRAILING EDGE PROTECTIVE FOAM

RedWing helps prevent aircraft damage and head injuries. Just slide the foam onto the trailling edges of ailerons, elevators, rudders or flaps to protect these surfaces while tied down or in the hangar.. RedWing is also ideal for proecting landing gear doors, aviionics antennas, and winglets. The bright red color reminds the pilot to remove RedWing before flight, and RedWing is reuseable and unaffected by UV, water, or oils. Furnished in 3ft. sections which can by easily cut to smaller sections .....P/N 13-02566 ..... ---

CLOUD 9 FUEL STICK

- 3D printed in Red PETG
- References the top of the filler opening to hold stick perpendicular and centered in the opening while taking a fuel reading. This will give you a more repeatable reading and very good to use when setting the K factor value if you have an engine monitor with fuel flow calibration.
- Has flat sides so it will not roll off the wing when set down and also has clearance for fuel cap chains.
- Impossible to drop the stick in the tank when the guide is attached.
- Designed to be used with your existing Fuel Hawk Fuel stick for your airplanes tank configuration.
- Please refer to pics showing visual differences between Monarch Caps, • Raised Inlet Caps and Cessna Flush (Killer) Caps and verify yours match the version your buying.

Specifications:
- Cessna Raided Caps Diameter: 1.55"
- Cessna Monarch Caps Diameter: 1.80"

Cessna Raised Caps.....P/N 13-24569 ..... ---
Cessna Monarch Caps.....P/N 13-24567 ..... ---

WICKSHIELD

Warning type cover for aircraft, wire/rod & "whisker" type, Static Wicks. These are very simple to use, economical, and conveniently packaged in 8 packs. They offer practical protection for the wicks, charter/corporate passengers, crew, and maintenance staff! They have been well received by corporate fleets. Features: One size fits all static wicks. Lightweight-will not stress static wicks - will not scratch airplane finish. Quick "Attach - Release" Clasp - will not stick to wicks - will not freeze in place.
P/N 13-11708 ..... ---

STEARMAN COCKPIT DUST AND RAIN COVER

One of the problems with traveling in your Stearman is the lack of space to haul necessities. This Cockpit Cover weighs about 1 pound in it's storage bag, which is the size of a quart carton. The cover is made from back-packing tent material which is rain proof and light weight. Installs with two Velcro straps and four elastic cords using plastic fasteners. There is no metal to scratch your finish. Available in Federal Yellow. .....P/N 13-11616 ..... ---

KOGER SUNSHADES

The Koger Sunshade was developed to provide protection from the sun while flying an airplane that has a large bubble plastic canopy like the RV-6, RV-7, RV-8, RV-9 and many other types of aircraft.
Key Benefits:
- Retractable to front or rear.
- Lightweight (9oz. for side by side RV models)
- Install in 1/2 to 1-1/2 hours depending on the model.
- Makes instruments more visible, and the cockpit more comfortable.

Fits	Description	Part No.	Price
RV-8	Special 15" W x 46" L	13-05657	---
RV-6, 6A, 7, 7A, 9, 9A	Standard RV TIP-UP 30" W x 25" L	13-05658	---
RV-6, 7, 9	Super RV Slider - 34" W x 35" L	13-09609	---
RV-6, RV-6A, RV-7, RV-7A, RV-9, RV-9A, RV-14, Lancair 320, 360, Pulsar - Plusar III, Sonex, Swift	Designed for the RV-14. 35"Wx 25"L	13-20710	---
Arion Aircraft – Lighting, Breezer, Cirrus, Classic Sport - S-18 & S-18T, Europa Evektor – Eurostar, Glasair-320 and 360 Lancair – Legacy, Mustang II Sequoia Falco - F9L, Skylark Sting Sport, Texan, Zenith - Zodiac	Large Universal for larger clear bubble canopies with no center structural members 34" W x 35" L	13-05660	---
Air Tourer AESL T-6, Alisport LLC Sailplane, American Champ 8GGGBC, Apis INC Sailplane, Citabria, Cozy III & IV, Dynamic WTP, Evektor Sportstar, Fasanation D4, Glasair, Nuventure Questair, Rans Coyote II, Rans S-7S & S-6, T-18, Team Rocket F-1, Vans RV 4	Custom made to order shades	13-05661	---

TRISOFT WINGTIP BUMPER

Trisoft Bumpers provide protection for the trailing edge of the wing, delta fins and ventral fins. Each Trisoft Bumper is made of chemical resistant EVA foam and provides ultimate aircraft protection. The Trisoft Bumpers also work great as wing edge indentifiers. This helps protect your employees while they are working or walking under the wing.
P/N 13-08263 ..... ---

TRISOFT WINGTIP/PROP TIP COVERS

• Avoid Accidents • Protect Employees and Aircraft • Reduce Insurance Claims • Remain In Compliance Trisoft Aircraft Covers • Can Be Used As a Safety and Warning Device on Prop Tips. Trisoft is a simple foam triangular cover that slips onto the corners of the prop tips, gear doors, wing flaps (in the lowered position), wing tips, and dorsal antennas. Trisoft can be used on personal aircraft, corporate aircraft, commercial aircraft, military aircraft and helicopters.
P/N 13-06003 ..... ---

PS

PLANE SIGHTS REMOVE BEFORE FLIGHT

PLANE SIGHTS PITOT TUBE COVERS

Extremely obvious, very durable, and weather resistant pitot tube covers for every aircraft.

ANGLED PITOT TUBE COVER - Aircaft Type: Piston Powered Plane This durable, weather-resistant orange and yellow reflective cover fits virtually any size pitot tube. It stands out in daylight or darkness under all weather conditions, so it can't be missed. Large sewn-on Velcro tabs keep it securely in place under all conditions. Weight: 0.14 kg If length of the tube exceeds 6.75" and the diameter exceeds 7/8", then the Universal Pitot tube cover would be a better choice. As seen on the 2009 AOPA 'Let's Go Flying' Cirrus SR22

P/N 13-05611 ..... ---

UNIVERSAL PITOT TUBE COVER - Aircaft Type: Piston Powered Plane. This durable, weather-resistant orange and yellow reflective cover fits virtually any size pitot tube. It stands out in daylight or darkness under all weather conditions, so it can't be missed. Universal covers fit any length of tube from the smallest home built ¼" tubes up to 7/8" jet probes. The versatile hook/loop Velcro strap with sewn-in rubberized trim allows the cover to be quickly and securely fastened to the pitot tube. Weight: 0.00 kg The inside diameter of the cover is 7/8". Works with a variety of aircraft including: Cessna, Beechcraft, Cirrus, Diamond, Grumman or Mooney aircraft, as well as most Pipers and many light sport aircraft .....P/N 13-05610 ..... ---

BLADE PITOT COVER - Aircaft Type: Piston Powered Plane Forgetting to remove a faded, dull and worn-out pitot tube cover can jeopardize the safety of you and your passengers. And when cold weather prevents you from installing your pinch-and-insert style blade pitot cover, ice and snow can contaminate your pitot system. Some blade pitot covers also cause damage to paint when the sleve is being forced on and off. The highly conspicuous and very durable Plane Sights Blade Pitot Cover is a perfect fit for any aircraft with a blade-type pitot tube or piper gear extension mast.. Properly installed, it's guaranteed not to blow off, fade in the sun or wear out for at least two years. Fits Piper, Katana, some Rockwell, late Grumman, Lake 250, and all other aircraft with a blade-type pitot tube. (As seen on the 2008 AOPA "Get Your Glass" sweepstakes aircraft) Weight: 0.15 kg Fits Piper, Katana, some Rockwell, late Grumman, Lake 250, and most other aircraft with a blade type of pitot tube. .....P/N 13-06016 ..... ---

PITOT TUBE PLUG (3/4") - Aircaft Type: Piston Powered Plane. 3/4" inside diameter vented plug with its unmistakable Remove-before-Flight Streamer provides a perfect easy-on, easy-off solution. ANSI-compliant and weather-resistant reflective streamer stands out equally well in daylight or darkness under all weather conditions. The poly plug is attached to the streamer's rugged black oxide coated zinc eyelet with a stainless steel ring. This ¾"plug Fits Cessna 150, 152, 172, 177, 182, 200 series, and 337 models. Weight: 0.04 kg 3/4"/0.75" (19.05mm) ID x 2" (50.80mm) useable length.....P/N 13-06018 ..... ---

LIGHT SPORT PITOT PLUG KIT - Aircaft Type: Piston Powered Plane. Light Sport/Homebuilt Pitot Plug Kit provides a perfect fit for many homebuilt pitot tubes, light sport pitot tubes, and aircraft fuel vents. The kit includes several vented plugs so it even works with double-tube systems and is guaranteed not to pressurize your pitot static system. ANSI-compliant and weather-resistant reflective remove-before-flight streamer stands out equally well in daylight or darkness under all weather conditions. The kit comes complete with three different-sized pitot tube plugs, a unique streamer, and two rust-resistant coated triangle rings. WARNING: CHECK WITH YOUR AME AND CONSULT YOUR OWNER'S MANUAL BEFORE USING A FUEL VENT PLUG .....P/N 13-06020 ..... ---

STATIC WICK COVERS

Prevent hangar rash and broken static wicks

STATIC WICK COVER SET (TUBE STYLE 7")
Aircaft Type: Jet. A lower priced alternative to Static Wick Markers. They protect static wicks from damage on the ground and make wing/elevator tips more obvious, preventing hangar rash. Slide these round style covers on for a tight weather resistant fit on Citations and other jets. Weight: 0.04 kg Round, tubular poly cover, 0.310" x 0.450" x 7.000"Long. *Shock cord lanyard not included.

P/N 13-06888 ..... ---

STATIC WICK COVERS (SMALL ID X7")
Aircaft Type: Jet. Installed and removed in seconds, Static Wick Covers help prevent delays and inconvenience due to hangar rash. Extremely obvious and very durable Static Wick Covers make these vulnerable parts highly visible by day or night. Slide these round style covers on for a tight weather resistant fit on your Bombardier (Challenger & Global Express) or Hawker/Beechcraft and many other jets. If necessary cut with scissors to desired length. Weight: 0.20 kg Fit's over static wick part #'s: Chelton 2-17SC-1,Chelton 2-11SC-1, MIL-9129D, DG17770. Fits Bombardier, Hawker/Beachcraft and others.....P/N 13-06777 ..... ---

STATIC WICK COVER (SQUARE STYLE)
Aircaft Type: Jet These Square Style Static Wick Covers protect, usually yellow pronged static wicks from damage on the ground and make wing/elevator tips more obvious, thereby preventing hangar/ramp rash. Slide these rectangle covers on for a tight weather resistant fit on Falcon, Hawker, Beechjet, older Lear Jet and many other static wicks. Weight: 0.21 kg Includes three (3) Static Wick Covers per package Square Poly, 0.75"x0.25"ID x 3.50" Long, (in stock) (also available by special request, 5.25" length sleves) Standard two year warranty applies. *Shock cord lanyard not included .....P/N 13-06776 ..... ---

DIAMOND STALL WARNING PLUG
Aircaft Type: Piston Powered Plane Diamond recommends that operators of their DA40 and DA20 aircraft plug the stall warning air inlet holes on these aircraft while they're parked on the ground. Fits any Diamond DA40 or DA20, one way or the other. ANSI-compliant and weather-resistant reflective remove-before-flight streamer stands out equally well in daylight or darkness under all weather conditions.

P/N 13-06830 ..... ---

REMOVE BEFORE FLIGHT STREAMER
Blazing yellow color stands out equally well in daylight or darkness under all weather conditions. A cord can be attached to the streamer to the rugged black oxide coated zinc eyelet. Ideal for any remove-before-flight application. Weight: 0.03 kg. Streamer - 12.25" long x 2" wide, two metal rings included.

P/N 13-05612 ..... ---

HI VISIBILITY BOOTIE PITOT COVER
Features: • Long Life Clip - Hook and loop closure • Bright Yellow Sock - More visible against aircraft finishes • Softer Vinyl Banner - Less abrasive to paint and aluminum • Bright White Letters - High visibility lettering, Fuel resistant (won't chip off), Non-abrasive. **Applications**: • Specially designed for yse with pylon mounted Pitot Probes, fits Nose, Fuselage, or under wing locations • VL jets, and regional service airline aircraft (Boeing, Beechcraft, Bombadier, Cessna Jets, Cirrus, CRJ, Piper, Grob, Grumman, Gulfstream, Lear, Embraer, Hawker, Honda, Saberliner, Swearinger, and others) • Warbirds with "arrow head" type Pitot Tubes (North American, most AT-6, SNJ, Vultee BT-13, Grumman F4F Wildcat, F6F Hellcat, B-25 Mitchell, P-47 Thunderbolt, and many others) • TAT Probes • Dynon Angel of Attack - Pitot Proves, Pylon mount • Rosemount Pitot Probes.

P/N 13-12349 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

BANNERS – PITOT TUBE COVERS

AIRCRAFT FOR SALE BANNERS

Designed specifically for aircraft use, these banners slip right over your prop blades, moving in the breeze to attract attention-but will not rub against painted surfaces. Each banner is 9" x 23", made of heavyweight rubberized Nylon that is weather-repellent and resists tearing. Sold as a set of 2.
P/N 5412 ..... ---

PROPELLER MOUNTED BANNERS

Two 28" x 8", white printing on red reinforced vinyl. Yellow, blue and white pennants, slides over prop, fastens with velcro.
For Sale .....P/N 13-06402 ..... ---
For Rent.....P/N 13-06635 ..... ---

PROPELLER BANNERS

"For Rent" / "For Sale" Propeller Banner, sold in pair). Size: 33-182" long x 12" wide.
For Rent.....P/N 13-23359 ..... ---
For Sale .....P/N 13-23361 ..... ---

AIRCRAFT SPRUCE PROPELLER CARD

These prop cards are great when displaying your aircraft at a fly-in or event. There's room to fill in your personal information as well as large notes instructing onlookers to enjoy the views of your beautiful aircraft, but keep their hands off. They easily slide on and off the blades of your propeller. If you are organizing an event, these are affordable enough to pick up in bulk and pass them out to all who attend.
8-1/2"x 11". Semi-Gloss .....P/N 13-12320 ..... ---

PITOT TUBE COVERS

Feature an authentic, soft, bright red vinyl - will not fade, mildew resistant, made to Mil-C-20696. "Remove before Flight" streamer. Attaches simply with a velcro strap to 5/8" or 11/16" diameter L-shaped pitot tubes.
P/N 15210 ..... ---

SLIP ON PITOT COVER

Slip fit over 1/4" or 1/2" dia. pitot. Red Remove Before Flight streamer attached. Made of flame-proof/weather-resist. National Aerospace material..... P/N 15220 ..... ---

ROUND CESSNA PITOT COVER

This red pitot cover fits round, high-wing Cessna pitot tubes. Grooved fitting releases air pressure as the barometer changes.....P/N 5139 ..... ---

REMOVE BEFORE FLIGHT RIBBON

This 3"x24" bright orange streamer with black letters features a grommet for a C ring to attach to anywhere on the aircraft. High visibility, fire resistant material.....P/N 15200 ..... ---

ASA REMOVE BEFORE FLIGHT BANNER

A bright red heavy nylon banner that can be fastened to anything that needs removing before flight. Comes with a grommet and wire ring that can be attached to everything from gear pins to gust locks and pitot covers. Heavy duty vinyl is tear resistant.
2" X 17" ..... P/N 13-02380 ..... ---

ASA PITOT TUBE COVERS

Fit snugly over standard aircraft pitot tubes, and are vented to avoid pressurizing the pitot static system. Critical to safe operations, the cover keeps dirt, contamination, and insects from entering the pitot tube. A "remove before flight" streamer hangs off the cover as a prominent preflight reminder to pilots. Molded in the United States, the cover uses a heavy duty plastic material.
Pitot Tube Cover 5/8" (small) .....P/N 13-02378 ..... ---
(Fits: Cessna 300/400 series, Citation & Conquest, Beech singles & twins, Piper Navajo & Cheyenne, Mooneys, Mitsubishi, Lear Jets & Cirrus)
Pitot Tube Cover 3/4" (large).....P/N 13-02377 ..... ---
(Fits: Cessna 150,152,172,177,182, 200 series, Skymaster & the Falcon Jet)

"REMOVE BEFORE FLIGHT" PITOT COVERS

Universal cover .....P/N 13-04396 ..... ---
Piper blade cover .....P/N 13-02946 ..... ---
3/4 pitot cover .....P/N 13-04395 ..... ---
5/8 pitot cover .....P/N 13-04394 ..... ---
Sm RBF streamer .....P/N 13-02818 ..... ---
Lrg RBF streamer .....P/N 13-02819 ..... ---
Nelson RBF Streamer...P/N 13-04397 ..... ---

FUEL VENT COVER

The fuel vent cover is designed to fit most fuel vents, and will not pressurize the fuel system. The ribbon is nylon with a vinyl coating and silkscreened letters.....P/N 13-02817 .....

REMOVE BEFORE FLIGHT STREAMERS

Red "REMOVE BEFORE FLIGHT" Streamer with white lettering.
3" X 21" White on Orange
P/N 13-16572 ..... ---
3: X 21" Black on Yellow
P/N 13-16573 ..... ---

BAYONET PITOT TUBE COVER 8 INCH

8" Bayonet-style Pitot Tube Cover with "Remove Before Flight" tag. Sticks out from under the wing, and is visible from the cockpit for visual confirmation if it has (or not) been removed. Solid cover also guarantees 0Kts IAS if not removed.
Red Tag.....P/N 13-24052 ..... ---
Yellow Tag.....P/N 13-24200 ..... ---

ASA PITOT TUBE COVER - BLADE

This pitot tube cover fits snugly over blade-type pitot systems typically found on Piper Cherokee, Warrior, and Arrow aircraft. They are vented to prevent pressurization of the pitot-static system. Critical to safe operations, the cover keeps dirt, contamination, and insects from entering the pitot tube. A "remove before flight" streamer hangs off the cover as a prominent preflight reminder to pilots. The cover uses a heavy-duty plastic material; the 2" x 17" banner is bright red with white screen-printing for maximum visibility.....P/N 13-02379 ..... ---

REMOVE BEFORE FLIGHT KEY CHAIN

Remove before flight key chain with white letter REMOVE BEFORE FLIGHT on red banner
P/N 13-02836 ..... ---

KEY CHAIN I LOVE FLYING

Key ring with blue writing "I LOVE FLYING" on off-white banner ..P/N 13-02950 ..... ---

NELSON SMALL REMOVE BEFORE FLIGHT STREAMERS

Nelson Remove Before Flight Streamer. Dimensions - 7" x .5"

Red on Yeallow .....P/N 13-25578 ..... ---
Black on Orange.....P/N 13-25577 ..... ---

I LOVE FLYING PERSONAL STREAMER

ProFlight aircraft personal streamer with attached ring and slogan "I LOVE FLYING".
P/N 13-10448 ..... ---

HAVE YOU CLOSED YOUR FLIGHT PLAN PERSONAL STREAMER

ProFlight aircraft personal streamer with attached ring and slogan "HAVE YOU CLOSED YOUR FLIGHT PLAN".
P/N 13-10449 ..... ---

PS

PITOT TUBE COVERS

REMOVE BEFORE FLIGHT STREAMER

2-1/4" wide, 17" long red polyester fabric with white writing: "Remove Before Flight"
P/N 13-01458 ..... ---

UNIVERSAL STATIC PORT COVERS

SPC-101

SPC-102

An inexpensive, yet very effective alternative to other covers and plugs. The SPC-101 is designed to fit an aircraft with one static port on each side of the aircraft and the SPC-102 is designed to fit an aircraft with two static port on each side of the aircraft.
Features: • Universal design to fit most aircraft • Lightweight entire assembly weighs less than 1/2 pound • Attaches with heavy duty lever cups designed to lift up to 40 pounds each • No fuselage modification required • Prevents the possibility of any damage to static ports by being and externally mounted cover • Malleable lightgauge red anodized aluminum easily conforms to virtually any surface contour • Adjustable to allow for attaching lever cups on or around decals and pin striping • Installed at temperatures from -20°F to 110°F
SPC-101 .....P/N 13-06723 ..... ---
SPC-102 .....P/N 13-06724 ..... ---

PITOT COVERS

Avoid costly damage to your pitot-static system. Protects from dust, insects, wind and other foreign matter. Will not pressurize pitot-static system.

MODEL 4602 - Fits Piper, Katana, some Rockwell, and late Grumman aircraft.....P/N 13-06395 ..... ---

MODEL 4935 - Bootie Type, all Naugahyde, white boot, red with white printing, 2" x 16". .....P/N 13-06397 ..... ---

STREAMERS

5811 "OUT OF SERVICE" - 3" x 24", yellow printing on red reinforced vinyl with grommet and ring. 2" securing strap with grommet and velcro.
P/N 13-06399 ..... ---

5813 "DO NOT TOW" - 3" x 16", yellow printing on red reinforced vinyl with grommet and ring. 2" securing strap with grommet and velcro.
P/N 13-06401 ..... ---

4604 "REMOVE BEFORE FLIGHT" - 2" x 16", white printing on red reinforced vinyl with grommet and ring.....P/N 13-06396 ..... ---

SAFEWAY PITOT TUBE COVER

Safeway SFW 1000 Pitot Tube Cover - 1 Inch.
P/N 13-23362 ..... ---

REMOVE BEFORE FLIGHT WICK-TECTOR

Before Flight Pitot Tube Covers. 10 Inch flag. 1-1/2" red vinyl sleeve.
Note: 3 in a pack. .....P/N 13-23367 ..... ---

REMOVE BEFORE FLIGHT WICK-TECTOR

Before Flight Pitot Tube Covers.

Note: Only available in a single unit.
Safeway SFW 7101-5i Wick-Tector 5" .....P/N 13-23363 ..... ---
Safeway SFW 7101-6i Wick-Tector 6" .....P/N 13-23364 ..... ---
Safeway SFW 7101-7i Wick-Tector 7" .....P/N 13-23366 ..... ---

BRUCES UNIVERSAL CUSTOM PITOT TUBE COVERS

The Original and World's Finest Aircraft Covers for Airplanes, Jets, Helicopters, Gliders and QEC Off-link Jet Engines.
Once the material for each order is cut into its appropriate parts, highly trained sewing machine operators meticulously assemble the products with durable thread, rivets, and canvas trim.
Pitot Tube Covers, made of Naughahyde vinyl, are designed to cover the entire pitot assembly. Slipping on over the tube, the cover tightens around the base with a special Velcro strap detail. A "remove before flight" streamer is attached to the cover. Non-burning Pitot Covers are designed to withstand more than 500° Fahrenheit, and will prevent the pitot cover from melting onto the tube if the pitot heat is accidentally turned on with the pitot cover attached
Pitot Tube Cover for the following applications: • Beech: Bonanza B35, Bonanza B36, Baron B58 • Cessna: Cardinal 177, Centurion 210, Corvallis 350 • Cirrus: SR20, SR22 • Grumman: American AA5 • Piper: Comanche PA24, Cherokee Six PA32 • Lancair: IV, Columbia 300, Columbia 350, Columbia 400, Lancair 320, Lancair 360 • Mooney: Ovation, M20, 201, 205, 231, 252 & MJ20 MSE
P/N 13-15994 ..... ---

Pitot Tube Cover for the following applications: • Cessna: 150, 152, 172, 175, 180/185 Skywagon, 182 Skylane, and 206 Stationair. • Grumman AA1. .....P/N 13-15995 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PITOT TUBE COVERS

REMOVE BEFORE FLIGHT STREAMER

Red Streamer with white print. Aid as a reminder of preflight for pilots. Ideal for landing gear pins.

P/N 13-18382 ..... ---

ROSEMONT TEMPERATURE PROBE COVER

High Quality Cover for Temperature Probe.

Applications:

- Cessna Citation Bravo: 650
- Learjet: 31, 35, 40, 45, 70, 75
- Hawker: 4000
- Bombardier Challenger: 601, 604, 300.....P/N 13-18383 ..... ---

PITOT COVER FOR PIPER AIRCRAFT

High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.

Applications: Piper aircraft, and small general aviation.

P/N 13-18385 ..... ---

UNIVERSAL PITOT COVER

High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.

Applications: Small general aviation aircrafts. Cessna Citation, Beechcraft King Air, Cirrus, Diamond, Grumman Mooney, Cessna, Piper.

Left .....P/N 13-18384 ..... ---
Right.....P/N 13-18384-R ..... ---

LEARJET PITOT COVERS

High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.

Learjet 25,31,35,36 series
Left .....P/N 13-18386 ..... ---
Right.....P/N 13-18386-R ..... ---

Learjet: 40, 45, 60, 70, 75
Bombardier Challenger: 300, 601, 604
Left .....P/N 13-18387 ..... ---
Right.....P/N 13-18387-R ..... ---

FUEL CAP COVERS

This easy to use removable product will help keep water and debris from getting inside your fuel tank, all you do is peel and stick it right on top your fuel cap after landing and remove before your next flight. Set of 2

P/N 13-21885 ..... ---

STATIC PORT COVER

This easy to use stick on product will provide full coverage for your Static Port and protect it from all the natural elements.

P/N 13-21884 ..... ---

PILATUS PC-12 COVERS

High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.

Pitot Covers
Left .....P/N 13-18393 ..... ---
Right.....P/N 13-18393-R ..... ---

Angle of Attach Covers
Left .....P/N 13-18392 ..... ---
Right.....P/N 13-18392-R ..... ---

PLANE SIGHTS RELFECTIVE GEAR PIN FLAG

The Plane Sights 3x18" lime green or red orange reflective XL Remove-Before-Flight banner is designed for long medium to long range business jet gear pins and replacement wide body remove before flight flags. Plane Sights is the only brand of remove before flight flags that are made from ultra violet resistant microprismatic reflective. The brilliantly reflective PVC can also be easily cleaned of landing gear grease with any mild soap and water.

Lime Green.....P/N 13-21613 ..... ---
Red Orange.....P/N 13-21614 ..... ---

PLANE SIGHTS FLASHFLAG

This 4x32" flag is designed to meet the abrasion resistance, weatherability, and self extinguishing/ flame retardant requirements of wide body and other long range business jet OEM customers. The materials and construction meet NAS-1756 / NAS-1091 technical specifications for remove before flight flags. The color specifications, for obvious reasons do not meet the standard. If you're looking for a very durable gear pin flag that's designed for the abuse of quick turns and tight stowage, this is the right product.

3" X 20".....P/N 13-21623 ..... ---
4" X 32".....P/N 13-21622 ..... ---

REMOVE BEFORE FLIGHT PITOT TUBE COVERS

Before Flight Pitot Tube Covers. 5/8" or 3/4" ID Vinyl Cover.

5/8" .....P/N 05-12646 ..... ---
3/4" .....P/N 05-12645 ..... ---

UNIVERSAL REMOVE BEFORE FLIGHT PC-100U PITOT COVER

Before Flight Pitot Cover. Universal size, All Vinyl. - Fits All Tube Type Pitots.....P/N 05-12660 ..... ---

REMOVE BEFORE FLIGHT FLAGS13-

Before Flight 10" Flag with Ring. .....P/N 05-12661 ..... ---

REMOVE BEFORE FLIGHT PITOT COVER

Before Flight Pitot Tube Cover. 6" Red Vinyl Sleeve Fits D.G. # 16920. 16" Flag. Wick-Tector (3/Pack).....P/N 05-12655 ..... ---

PS

CONTROL LOCKS - EZ FLAP

UNIVERSAL CONTROL LOCK

This Control Lock is of all stainless steel construction with silicone rubber to protect aircraft interior and folds into small package for easy storage. Installs in seconds from the pilot seat and fits most aircraft with a control column. Other control locks are not required like the one Cessna provides. It's virtually impossible to try to take off with this lock in place, as you cannot get your feet on the Pedals to taxi aircraft and keep the elevator in the nose down position.....P/N 13-13075 ..... ---

AMC AIRPLANE CONTROL LOCK

Rather than tying your seat belt to your controls, try AMC's new Airplane Control Lock. This lightweight control lock will stop your control surfaces from moving with the winds and will also prevent damage to your controls such as bending. This new Control Lock is lightweight and easily stored.

Mooney.....P/N 13-03164 ..... ---
Cessna 210 .....P/N 13-03165 ..... ---
Cessna 206 .....P/N 13-03166 ..... ---
Skymaster.....P/N 13-03167 ..... ---

THE CONTROL SAVER

The Control Saver control lock was designed for Piper and Mooney aircraft to protect aircraft controls in high wind gusts. It holds the ailerons in the neutral position and stabilizer in the down position. This control lock is light weight, easy to use and fits in an area as small as your shirt pocket. Sold to thousands of Piper and Mooney owners worldwide.

P/N 13-15505 ..... ---

SAF-T-STOP

Saf-T-Stop is an auxiliary seat stop mechanism approved by the FAA for use with Cessna seat track A.D. #87-20-03. Installs easily, sliding over seat track. Approved for: Cessna 150, 152, 170, 170B, 172, R172, 175, 180, 182, 185, 190, 205, 206, 207, 210, 303, 337. Not a seat lock, Saf-T-Stop is designed to restrict rearward motion if the seat lock fails.

P/N 13-18510 .....**---/pr**

AILERON & RUDDER SOFT LOCK

The Aileron & Rudder Soft Lock is made out of a durable foam that will not scratch your paint. Slides in gap between rudder and vertical stab. Keeps rudder from moving while plane is on the ground. Comes with "Remove Before Takeoff" flag. Patent Pending.

P/N 13-11615 ..... ---

YOKE LOCKS

Yoke lock is offered in three different sizes. 3/16", 1/4", 5/16".

High Visibility (and good looking) 2-color, raised-print yoke lock; For all yoke locks using 3/16", 1/4", 5/16". All 3 are the same, except for the size of the Pin, which varies based on what your plane uses.

List of planes that typically use 3/16" and 1/4" pint coming soon.

For all yoke locks using 5/16" drop pin includes most Bonanzas.

3/16 inches .....P/N 13-24053 ..... ---
1/4 inches .....P/N 13-24054 ..... ---
5/16 inches .....P/N 13-24055 ..... ---

LIGHT SPORT CONTROL LOCKS

These control lock is easy to install and positively locks the ailerons and elevator of the aircraft models listed below. Gust lock is manufactured using 6061T3 aluminum. The control stick clamping portion has a protective sleeve to prevent damage to special control handles. The latching mechanism is tow locking buttons that cannot come loose until released by the pilot which insures the owners that their ailerons and elevators are safe from wind damage. The control lock is red anodized with a "Remove Before Flight" decal, and each unit comes complete with instructions in a 4" x 4" x 12" box. Only weighs 3 1/2 ounces.

HUSKY CONTROL LOCK CL110 SHORT

Eligible Aircraft Models: Husky only.....P/N 13-21226 ..... ---

ULTIMATE GUST LOCKS FOR RVS

This revolutionary product "The Ultimate Gust Lock" is a solution to this rather troublesome and sometimes challenging task. This product will definitely calm the fears of many RV owners and builders of these wonderful aircraft. After watching, reading, analyzing, researching and waiting for someone to offer up a solution we decided to go to work on this problem.

Aircraft	Part Number	Price
RV-6, 6A, 7, 7A, 9, 9A	05-12368	---
RV-8, 8A	05-12483	---
RV-10, 10A	05-12484	---

REMOVE BEFORE FLIGHT AIRPLANE CONTROL LOCK

Piper and Mooney aircraft do not have control locks. That's why there is now a Control Saver control lock to meet the needs of pilots who fly these planes.

PA-28 1968-97 .....P/N 13-12726 ..... ---
PA28 1997-Current .....P/N 13-12727 ..... ---
PA32 1968-97 .....P/N 13-12728 ..... ---
PA32 1997-Current .....P/N 13-12729 ..... ---
PA-28-61 Bowtie .....P/N 13-15505 ..... ---
Mooney.....P/N 13-20663 ..... ---

EZ FLAP HANDLE EXTENSION

Because EZ Flap puts the flap control at the correct location close to the yoke (instead of down on the floor under the panel), pilots can finally remain upright while using the flaps, and stay focused on takeoff/landing, obstacles, terrain, traffic, and instrument scan. No more bending over - no more loss of visibility. EZ Flap improves the performance of the pilot!

EZ Flap mounts to the existing aircraft flap handle with no disassembly and no de-rigging in 20-40 minutes, with only two small screw holes. The original aircraft flap control remains fully functional. 100% made in the USA. Full FAA STC-PMA approval on 95% of all US manual flap aircraft.

CESSNA/PIPER FLAP HANDLE EXTENSION APPLICATIONS: Cessna: 170 / 172 / 175 / 180 / 182 / 185. Piper: PA-28 / PA-32 Cherokee Family. Piper: PA-34 / PA-44 Seneca / Seminole. Beech: 19/23/24 Musketeer Family.....P/N 13-06946 ..... ---

SUPERCUB HANDLE EXTENSION APPLICATIONS: Piper: PA-18 Super Cub. Piper: PA-20 / PA-22 Pacer / Tri-Pacer. Maule: M-5 thru M-9 Family. Stinson: 108 Family .....P/N 13-07438 ..... ---

RANS CONTROL LOCK

RANS has developed a control lock that attaches to most models. The lock consists of a bungee cord, a couple of hooks and cap that slips over the top of the control stick. Allows for bungee tension to be set for a particular model. Not hard bolted so if an outside force against the control surfaces occur, the bungees will absorb the load.....P/N 13-10434 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AIRCRAFT LOCKS

WHEEL CHOCK LOCK

This innovative aircraft security device clamps to the wheel which prevents theft of the aircraft, while the built-in chock prevents the wheel from rolling forward when parked. The lock and chock are yellow, while the red rubber coated arms protect the finish of the wheel. Fits any type of wheel up to 12" wide. Lifetime warranty.
P/N 13-06141 ..... ---

YORK GUST-LOK™

The York Gust Loks the ultimate protection or your plane from wind and theft. It locks he control surfaces in a neutral position and prevents damage to control surfaces and ail caused by wind gust loads. It is welded steel, fully adjustable, is lightweight, and features a powder coat finish. The York Gust Lok is compact for easy storage and is quick and easy to use. Wt: 2.2 lbs.

CONTROL WHEEL AIRCRAFT

Aircraft	Part No.	Price
PA-28, PA-32, PA-24, PA-30 & PA-39, PA-32R, PA-34 & PA-44	13-00855	---
Commander 112 / 114	13-32730	---
Mooney, Grumman Goose, Maule (Tricycle gear & Seaplane) PA-23, & Grumman American, Myers 200 & Commander 200	13-00863	---
Cessna Single engine 150'&172's, Helio Courier, 295/395	13-00864	---
Cessna Single engine 180, 206 & 210's fixed & retract gear & Cessna 337	13-00865	---
Cessna Twins except 337 & 310	09-00329	---
Aerostar, Commander 500, Beech Baron, Bonanza, Duke & 18/C-45, Lake L-A-4 (except Renegade)	13-32790	---
Cessna Tailwheel, Stinson, Beech Staggerwing	13-32800	---
Lake Amphibian	13-32820	---
Beech King Air	13-32830	---
Cessna 310's	13-32840	---
Aeronca Chief 508, Taylorcraft BC 12-D, Stinson 108 & 108-1	13-32850	---
PA-38	13-32860	---
Maule (Tailwheel)	13-32871	---
Piper PA-31, Chieftain, Navajo, Chyenne	13-32880	---
Socata (Trinidad), Grumman Widgeon	13-32890	---
Seawind	13-32885	---
Dehaviland Beaver	13-00866	---
Piper Malibu	13-00868	---

STICK CONTROL AIRCRAFT

Aircraft	Part No.	Price
Bellanca	13-06114	---
Champ & Citabria	13-00879	---
Huskie, Pitts	13-00880	---
J3 with Shin Knocker Tubes	13-00871	---
J4	13-11870	---
Kit Fox	13-00886	---
Lancair IV	13-00888	---
Luscombe	13-11869	---
Micco	13-00881	---
Nanchang CJ-6	13-11872	---
Piper PA-12	13-00872	---
Piper PA-14	13-00875	---
Piper PA-15/17	13-00876	---
Piper PA-16	13-00873	---
Piper PA-18 & J3 Shin Knockers	13-00877	---
Piper PA-20	13-00878	---
RV-6	13-00884	---
RV-8	13-11868	---
Swift (only for stick)	13-00883	---
Waco	13-00887	---
Yak 52	13-11871	---

YORK DO NOT TOW WARNING FLAG

Red and white vinyl warning flag reading "DO NOT TOW". It has a metal ring with a velcro strap for easy attachment and removal on any wind gust lock.
P/N 13-00869 ..... ---

PROP LOCK CHAIN

The THEX50 is a "T-HEX" maximum security chain 5 ft in length with hardened 10mm hexagon shaped links. Hexagon shaped case hardened trip heat treated super chain. This heavy duty Prop Lock Chain is the perfect way to insure the security of your aircraft, particularly at remote or foreign airports. The hexagon shaped, heat treated heavy duty chain can endure over 10 tons of cutting force, insuring your aircraft against theft. A black nylon cover over the chain protects your aircraft from the chain when in place. The Prop Lock Chain is 5 feet long and weighs 12lbs .....P/N 13-05182 ..... ---

THE PLANE LOCK

For Cessna C-172-210s, except for the C-177. Prevents the wind from popping your doors open and provides an added measure of security against break-ins.No tools or STC required. From outside the aircraft, the pilots door is locked by reaching through the window (prior to closing it) and pushing down the door safety handle. Then, slip the Plane Lock over the window sill and lock the window shut .....P/N 13-03386 ..... ---

NELSON AILER-LOCKS

• 13" RBF streamer
• Locks flaps, ailerons, elevators, or rudder. Ailer-Lock Large (10")
P/N 13-22705 .....

SKYLOK

Skylock is an inexpensive throttle lock for aircraft with Cessna type push-pull throttles. The device will accept shafts up to .375" diameter, and is made of heavy-gauge cadmium plated steel. Skylock affords great peace of mind to aircraft owners at very little cost. Just put in place after every flight, secure with your own favorite padlock, and your throttle cannot be moved! Simple, but it works.....P/N 13-18500 ..... ---

TALLY-LOK RUDDER GUST LOCK FOR CESSNAS

New rudder control lock for Cessna Aircraft models (see below for eligibility). The design of having it in the cabin makes it virtually impossible to forget.

Eligible Aircraft: TAL-LOK-150STR: Cessna 120, 140 and early Cessna 150 Straight-Tail models C-150 through E • TAL-LOK-152SLT: C-150F through M models and C-152 • TAL-LOK-4PL: Confirmed will fit the C-170, C-172, C-177, C-180, C182, C-185, C-206, C-210 and C-337

Note: We are continuing to confirm fitment in different models and aircraft manufacturers.

Description	Part No.	Price
C-150 Straight Tail	13-25669	---
C-150/152 Slant Tail	13-25670	---
4- Place Cessna	13-25671	---
Extension Only (4-Place Cessna)	13-25672	---

DROMIGHT™ RUDDER LOCK FOR VANS RV-14 AND RV-14A

This tension bearing dual rudder locking system allows for the rudder to have minimal flexibility in heavy winds while also keeping it safe and secure when parked on the ground. Installs quickly from the inside of the aircraft. Easy to remove, light weight, incredibly effective and virtually impossible to forget to remove before flight.

Specifications: • Length: 19.25" (489 mm) • Weight: Base Plates - 5.93 ounces (169 grams) • Rudder Locking Tubes - 13.7 ounces (387 grams)
P/N 13-25747 ..... ---

AIRGIZMO UNIVERSAL GUST LOCK

The AirGizmos Gust Locks are designed to quickly lock virtually any control surface securely. Its bright color and integrated flag reminds you to remove before flight. The rubber cushions ensure that your finish will be protected. They are lightweight and portable. Perfect for carrying in the plane wherever you go.
Single .....P/N 13-06139 ..... ---
3 Pack .....P/N 13-18457 ..... ---

PS

H3R AVIATION FIRE EXTINGUISHERS

The FAA recommends and/or requires Halon fire extinguishers on aircraft. H3Rs Halon fire extinguishers are the extinguishers of choice in the aviation industry. They cause no mess or damage, and do not require taking a plane out of service for clean-up; a costly process for both the aircraft owner and insurance carrier. The heat-seeking quality of the Halon gas makes it a superior fire fighting agent.

HALON 1211 FIRE EXTINGUISHERS

Halon is a "Clean Agent" – an electrically non-conducting, gaseous fire extinguishant that does not leave a residue upon evaporation. Halon is extraordinarily effective in putting out flammable liquid and electrical fires. As a liquefied gas, Halon is able to effectively fight hard to reach fires by breaking the chain reaction of a fire, disrupting the combustion. Our Halon fire extinguishers are UL listed and FAA-accepted per FAA Advisory Circular: AC 20-42D Hand Fire Extinguishers for Use in Aircraft. They contain Halon 1211 recycled in accordance with the Montreal Protocol.

Model	Part No.	Weight	Classification	Range	Price
A344T	13-01993	1.25 lb.	2B:C	9-12 ft.	---
A344TC	13-02546	1.25 lb.	2B:C	9-12 ft.	---
C352TS	13-01966	2.5 lb.	5B:C	9-15 ft.	---
C352CS	13-25923	2.5 lb.	5B:C	9-15 ft.	---
C352TSC	13-02547	2.5 lb.	5B:C	9-15 ft.	---
C354TS	13-02548	3.0 lb.	5B:C	9-15 ft.	---
B355T	13-02545	5.0 lb.	10B:C	9-15 ft.	---
B369	13-02557	9.0 lb.	10B:C	12-18 ft.	---
B371	13-02558	13.0 lb.	2A:40B:C	12-18 ft.	---

HALOTRON® BRX FIRE EXTINGUISHERS

Halotron® BrX clean agent fire extinguishers are an ideal choice for replacing Halon due to regulatory and environmental considerations. As the only extinguishing agent accepted by EASA, Halotron® BrX is a UL, ISO, EN, and FAA-compliant Halon alternative.

Model	Part No.	Weight	Classification	Range	Price
A337TS	13-24405	1.79 lb.	2B:C	7-8 ft.	---
339TS	13-25924	3.55 lb.	5B:C	11-12 ft.	---
347TS	13-23573	3.75 lb.	5B:C	10-12 ft.	---
349TS	13-23574	3.75 lb.	5B:C	10-12 ft.	---
351	13-24406	12.5 lb.	2A:10B:C	15-17 ft.	---

HALOTRON® 1 FIRE EXTINGUISHERS

Halotron® 1 is the most widely tested and accepted Halon 1211-alternative agent for streaming applications. Just like Halon 1211, Halotron® 1 expels as a rapidly evaporating liquid and leaves no residue. H3R Aviation's wheeled flight line models 673 and 674 feature a 50-ft discharge hose, high flow rate, and semi-pneumatic wheels, allowing for easy one-person operation and towable at up to 15 mph.

Model	Part No.	Weight	Classification	Range	Price
A384T	13-24491	1.4 lb.	1B:C	6-8 ft.	---
B385TS	13-25925	2.5 lb.	2B:C	6-10 ft.	---
B394TS	13-02549	5.5 lb.	5B:C	9-15 ft.	---
397	13-25926	11 lb.	1A:10B:C	9-15 ft.	---
398	13-25927	15.5 lb.	2A:10B:C	12-18 ft.	---
673	13-25928	65 lb.	4A:80B:C	30-45 ft.	---
674	13-02562	150 lb.	10A:80B:C	30-45 ft.	---

STANDARD, OPTIONAL AND QUICK-RELEASE BRACKETS

H3R Aviation Extreme Duty brackets (for experimental aircraft only) were tested to withstand inertia loads in excess of 27G in all directions. BKT325 was tested to the requirements defined in Title 14 CFR Part 23, 25, 27 & 29.

Model	Part No.	Description	Price
845	13-06170	Standard bracket for A344T	---
845B	13-06171	Standard bracket for A344TC	---
817S	13-06172	Standard bracket for C352TS/C354TS	---
817SB	13-25929	Standard bracket for C352TSC	---
817CS	13-25930	Standard bracket for C352CS	---
818S	13-25931	Standard for B394TS, optional for B355T	---
899	13-25932	Standard bracket for A337TS	---
893	13-25933	Standard bracket for 339TS	---
898	13-25934	Standard bracket for 347TS, 349TS	---
809	13-25935	Box-type bracket for B369, B371, 351	---
810	13-25936	Box-type bracket for 361	---
812	13-25937	Box-type bracket for 397, 398	---
NB300	13-18452	Extreme Duty bracket for C352TS/C, C354TS, B385TS	---
NB350	13-25938	Extreme Duty bracket for 339TS	---
NB425	13-18453	Extreme Duty bracket for B355T, B394TS	---
NB500	13-18454	Extreme Duty bracket for B369, B371, 351	---
BKT325	13-23575	FAA DAR tested bracket for 347TS, 349TS	---

PS

PRT FIRE EXTINGUISHERS

MODELS RT-A400, RT-A600 AND RT-A1200

These extinguishers contain a unique blend of liquefied gas 1211/1301, two highly effective fire fighting agents. These units are self expelling which means that the pressure remains constant even when the extinguishers are almost empty.

MODEL A1600

1600, contain a unique blend of liquefied gas 1211/1301 which results in a more effective fire fighting agent. (Incendex is a registered trade mark of Protection R.T. Inc.). These 1211/1301 commercial extinguishers can continue to operate adequately even with loss of inert gas propellant, due to the unique blend used.

Protection RT Extinguishers			
Protection R.T. Extinguishers	**Part No.**	**Range**	**Price**
RT A400 - 14 oz. (UL Rating 2B:C)	13-07650	4-6 ft	---
RT A600 - 1.2 lb. (UL Rating 2B:C)	13-07655	6-8 ft	---
RT A1200 - 2.5 lb. (UL Rating 5B:C)	13-07660	7-9 ft	---
A1600 - 3.5 lb. (UL Rating 1A:5B:C)	13-07665	8-10 ft	---

FIRE EXTINGUISHER BRACKETS

BKT400
Brackett for the RT-A400.....P/N 13-06166 ..... ---

BKT600
Brackett for the RT-A600.....P/N 13-06167 ..... ---

BKT1200
Brackett for the RT-A1200....P/N 13-06168 ..... ---

ACTIVE EXTINGUISHING LINE

Active Extinguishing Line is totally independent, 1kg, fire extinguishing system from any power source. Its main secret lies in the heat detector in a form of a line made out of special laser predriller polymer, shich will react instantly to any source of heat or fire. This line (heat detector) is connected to reservoir containing fire-extinguishing agent: hexafluoropropane FE-36. Inside of the protected device (equipment) a loop made out of the heat detector breaks, creating a mini sprinkler, directly over source of fire or heat, extinguishing it instantly. In a moment of activation the system closed circuit switch collapsses sending a signal informing of fire. For experimental aircraft only. Ask for status of pending STCs ..... P/N 13-03266 ..... ---

OCEAN SIGNAL SAFESEA GMDSS HANDHELD VHF RADIO

The Ocean Signal range of survival craft VHF hand portable radiotelephones exceed the requirements of IMO, SOLAS and GMDSS. Lithium Polymer rechargeable battery option available with rapid charger, for everyday normal use. Fully waterproof, even 40C thermal shock. High efficiency transmitter for maximum battery life. Rugged design exceeds GMDSS environmental requirements. Lithium primary battery for emergency use. Novel battery protection tab protects from inadvertent use. Battery classified as non-hazardous for shipment. Battery provides in excess of 16 hours typical operation, even at -20°C. (10% Tx, 10% Rx, 80% Squelched). Laser etched key legends for durability. High contrast, backlit LCD and keypad. Rugged accessory socket option; waterproof to IP68 for use with headsets, helmets, fist mikes, etc. 4 scanning modes, D/W, T/W, scan and memory scan. 21 simplex channels according to IMO SOLAs requirements.

Unit Only.....P/N 13-20261 ..... ---
Kit .....P/N 13-20262 ..... ---

RESCUE LASER FLARE MAGNUM™

A hand-held nighttime laser signaling device that provides a convenient, effective way to signal a rescue party up to 20 miles (32 km) away, depending on atmospheric conditions. It's ease of operation, long life and waterproof design makes it the perfect survival signaling device. Unlike conventional pyrotechnic flares, the Rescue Laser Flare™ is non-flammable, non-hazardous and can operate continuously for 72 hours on two replaceable AA batteries.

72 Hour.....P/N 13-01924 ..... ---
15 Hour.....P/N 13-01923 ..... ---

ARTEX WW-3 RESQ WHISTLE

Get attention when you need it with the WW-3 ResQ™ Whistle. This compact survival whistle was specially developed to locate boaters who've fallen overboard, but it can also aid in land rescues. The WW-3 ResQ issues a shrill dual-tone up to 100 decibels, which is audible over great distances. The unique, flat design of this whistle keeps it from holding water, and its 31.5 inch (80 cm) lanyard easily attaches to life jackets, rafts, and other weather gear. And, to top it all of, this rescue whistle was built to meet USCG requirements ..... P/N 11-20085 ..... ---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PROVITA SMOKE HOOD

The Provita Smoke Hood provides 20 vital minutes of life-saving evacuation time. It is proven to protect from smoke and 98% of toxins created by fire, including: Chlorine, Ammonia, Acrolein, Hydrogen Chloride, and Hydrogen Sulfide. Lightweight and compact. One size fits all. Smoke hood easily comes out of its 8" x 6" x 1" vacuum sealed bag - ready for use in seconds. There is no front or back which allows the smoke hood to be put on quickly for panic situations. The rubber seal easily slips over your head and seals - not allowing any smoke through. The smoke hood provides 360 degree vision and 20 vital minutes to escape a smoke-filled room.

P/N 13-11343 ..... ---

POCKET SMOKE MASK

NASA graded high temperature resistance Polyamide Film resists heat up to 932 degrees. The seven layer filter stops and blocks toxic gases made from non-woven and activated carbon fibers Filters more than 20 minutes of toxic smoke from fire. One size fits all: Adults, Children and Infants. Designed to protect user from smoke in the event of a fire. Simple to use, easy to store. Fits in brief case, purse, carry on luggage. Hood allows full 360 degree sight, talk and hearing capability. Heat Resistant – resists heat up to 932 degrees F. Provides 20 minutes of filtered breathable air. Five year shelf life.

P/N 13-17891 ..... ---

IEVAC SMOKE MASK / FIRE HOOD

The iEvac Smoke Mask/Fire Escape Hood is the only smoke/fire hood certified to the American Standard ASTM E2952-14. It protects against fire-related gases including carbon monoxide, hydrogen cyanide, smoke, & hydrogen sulfide. The iEvac contains a HEPA filter that removes more than 99.97% of sub-micron particles such as ebola, anthrax, smallpox, and radioactive particles. One universal size can be put on in under 30 seconds. The hood features easy-to-breathe dual filters and is compact, lightweight, and vacuum sealed in a foil bag for a long shelf life. Its unobstructed field of view can be used with eyeglasses, beards, and long hair.

Mask .....P/N 13-18188 ..... ---
Belt Pouch .....P/N 13-18482 ..... ---

GOT YOUR SIX AVIATION SMOKE & FIRE HOOD MASK

The clear hood of our smoke mask allows you to see clearly while in the cockpit, with an easy to don stretch-neck seal to maintain a closed, smoke free environment inside the hood. It provides up to 60 minutes of clean air with a 5-year shelf life. Fits both adults and children. Heat resistant hood helps protect you from radiant heat while the 5-layer air filtration system blocks most smoke, toxic fumes and gases. Utilizing two separate filtration layers, the Got Your Six Smoke & Fire Hood Mask filters dust, gas, water, CO, and HCN with an integrated oxidizer layer, which is tested to EN 403:2004 standards for performance and quality .....P/N 13-24329 ..... ---

EAM AIC-35 UNIVERSAL LIFE PRESERVER

EAM's Universal Series Life Preserver is designed with an open area collar to be placed over the head and onto the neck and shoulder area, so that the vest rest on the chest of the wearer over 35 lbs.

The vest is secured to the wearer using a harness strap. Inflation is accomplished by either CO2 or oral inflation. Each vest is equipped with a light system assembly. The AIC-35 life preserver is also designed for use on infants and small children weighing under 35 lbs.

10 Year .....P/N 13-19006 ..... ---

EAM XF-35 LIFE VEST

Only 1.13 lbs. (513 grams). The XF-35 offers significant fuel savings to operators wishing to stay with the added security of a twin-cell vest. 5 year frequency of inspection standard. Inflated Buoyancy: 35 lbs. minnimum. Approvals: USA FAA TSO-C13f; German LBA Approval No. 40.321/33; United Kingdom CAA Approval No. AR01445. Storage Range: 0 to 120°F (-17.8 to 48.9°C) Humidity: Functional Range: Up to 95% Relative Humidity; Storage Range: Up to 70% Relative Humidity Altitude: -2000 to 45,000 feet above sea level

5 yr. Passenger Yellow ..... P/N 13-12677..... ---
10 yr. Passenger Yellow ..... P/N 13-12685..... ---
5 yr. Crew Orange..... P/N 13-12678..... ---

EAM UXF-35 LIFE VEST

This single cell vest is the lightest weight aviation vest in the world, weighing only .9 lbs (410 grams). 5 year frequency of inspection comes standard, 10 year version available. TSO-C13f Approved. Inflated Buoyancy: 35 lbs. min. Temperature: Functional Range: -40 to 140°F (-40 to 60°C); Storage Range: 0 to 120°F (-17.8 to 48.9°C) Humidity: Functional Range: Up to 95% Relative Humidity; Storage Range: Up to 70% Relative Humidity Altitude: -2000 to 45,000 feet above sea level.

UXF-35 .....P/N 13-12679 ..... ---
UXF-35 (10 year).....P/N 13-12684 ..... ---

EAM INFANT LIFE VEST

This specially designed and affordable life vest is made exclusively for children less than 35 lbs. (16 kg). EAM infant vests come in USA and European versions, for the constantly changing safety markets of commercial carriers.

5 Yr. Vest w/Co2 .....P/N 13-12681 ..... ---
10 Yr. Vest w/Co2 .....P/N 13-23269 ..... ---
Without Co2 .....P/N 13-12778 ..... ---

SURVIVAL PRODUCTS LIFE RAFTS

Perfect for general aviation. Small and compact it fits in a lightweight valise 4" x 12" x 14" and weighs only 12 lbs. But don't be fooled by its size, price or weight. This raft will do the job for you under the most adverse condition. It provides a fresh water buoyancy of 190 lbs. per person and a deck area of 3.6' per person which exceeds all Govt. standards. Inflated, the raft is 46' inside and 68' outside and every square inch has been meticulously made from raw materials and components tested for their durability and life expectancy. Every raft is pressure tested and all seams and adhesive bonds rigorously checked prior to release. Raft includes sea anchor, bailing bucket, hand inflation pump, and CO inflation system. Optional survival equipment shown below. 6-13 person raft is 5' x 12' x 14' and weighs 18 lbs. Available in non-TSO'd and TSO'd versions.

Non-TSO:

4-6 Person Life Raft .....P/N 13-31610 ..... ---
6-13 Person Life Raft .....P/N 13-31660 ..... ---
4-6 Person Basic Raft w/o canopy.....P/N 13-31670 ..... ---
8-12 Person Basic Raft w/o canopy.....P/N 13-31715 ..... ---

TSO Certified:

4-6 Person Raft w/91 equip.....P/N 13-31690 ..... ---
4-6 Person Raft w/121 equip.....P/N 13-31700 ..... ---
8-12 Person Raft w/91 equip.....P/N 13-31735 ..... ---
8-12 Person Raft w/135 equip.....P/N 13-31755 ..... ---
Raft with FAR91 kit 6M .....P/N 13-05861 ..... ---

REVERE COASTAL COMPACT RAFT

Double 200 lb. SuperRev™ ballast pockets, it enhances stability in rough sea conditions. Its light weight allows for easy deployment and the compact size makes stowage easy in the smallest of spaces. Operation is easy. Just open the red flap on the valise and extend the painterline. Give a hard pull and the raft inflates automatically in less than 30 seconds. Coastal Compact Raft is not recommended for offshore use.

Raft	Part No.	Price	With Canopy	Price
2	11-07471	---	---	---
4	11-07472	---	11-07473	---
6	11-07474	---	11-07475	---

ARTEX C-LIGHT H20, LED PFD LIGHT

This waterproof steady-on light boasts a 20 lumen LED that operates typically for 30 hours continuously. The C-Light H2O model includes two activation methods; the light can easily be activated with a simple push of the On/Off button or when in the armed position, can be activated automatically when immersed in water, making this an ideal light for all outdoor enthusiasts.

The slim, lightweight and versatile design fits easily in a pocket or hangs discreetly when attached to a life jacket or backpack. The flexible lashing loops on the side of the product allow for multiple mounting options including the webbing on your backpack or straps on your life jacket. The Velcro® strap can be secured around the lashing loops and creates countless additional mounting possibilities. The light also comes with a clip designed to conveniently slide over your inflatable life jacket's oral inflation tube for storing your light inside your life jacket.....P/N 11-20086 ..... ---

PS

LIFE RAFTS – LIFE VESTS

REVERE AERO COMPACT LIFE RAFTS

Ideal for general aircraft, the Aero Compact series offers an enhanced level of safety for over-water flights. With double 200 lb. ballast pockets, the Aero Compact enhances stability in the roughest of sea conditions. Equipment Pack Contains: 2 Red Hand Flares - USCG/SOLAS, Bailer, Signal Mirror, Paddles, Repair Kit, Seasick Tablets, Water Tight Flashlight, Extra Flashlight Batteries, Whistle, Sponges, Floating Knife.

Specifications: • Weight: 13 lbs • Dimensions - Packed (L"xW"xH"): 14 x 9 x 5. ***Neither Canopies or Equipment Packs are available for 2-Person Aero Compacts.**

2 Person ..... P/N 11-09399 ..... ---
4 Person ..... P/N 11-09401 ..... ---
4 Person Canopy ..... P/N 11-09402 ..... ---
4 Person Canopy and Standard Kit ..... P/N 11-09403 ..... ---
4 Person Canopy and Standard Kit Plus ..... P/N 11-09404 ..... ---
4 Person Canopy and Deluxe Kit ..... P/N 11-09405 ..... ---

REVERE AERO ELITE LIFE RAFTS

The Aero Elite offers both crew and passengers easy usage when facing the stress of a life threatening situation as opposed to other liferafts that can be difficult to lift and transport at the time of need. Vertical bulkheads inside divide the tube into two independent air-holding compartments. If one compartment is punctured, the other keeps you afloat. Offers a spacious 4 square feet per person. Inflatable floor, stowage pockets, zippered windows, flashing strobe, extra large ballast pockets, an extensive equipment pack including USCG/SOLAS flares plus much more. If serviced according to manufacturer's specs, the Aero Elite offers a 12 year warranty.

4 Person ..... P/N 11-09409 ..... ---
6 Person ..... P/N 11-09411 ..... ---
8 Person ..... P/N 11-09412 ..... ---

SWITLIK INFLATABLE LIFE RAFTS

The Switlik ISPLR brings advanced military design and mission-proven durability to a single place life raft available for mariners and pilots who are serious about their personal lifesaving equipment. Fully reversible. The unique U-shaped design allows the raft to be fully reversible, allowing quick, easy entry from the water - whichever side is up when it automatically inflates. The ISPLR's low slung floor design allows seating at a slight recline lowering the center of gravity well below the waterline, increasing stability in rough waters. Zip to the elements. Twin zippers, located on either side, allow you to partially close the canopy, keeping the elements out while providing great ventilation.

Brick Valise, Hermetically Sealed w/Floor ... P/N 13-18417 ..... ---
Brick Valise, Hermetically Sealed ..... P/N 13-18418 ..... ---
Soft Valise, Loose Pack ..... P/N 13-16033 ..... ---
Soft Valise, Loose Pack w/Floor ..... P/N 13-18419 ..... ---

REVERE COMFORTMAX™ INFLATABLE PFD - RED TYPE III

Features: •USCG approved for persons at least 16 years of age weighing 80 lbs. and above with a chest size between 30" and 52" • Dual waist belt stainless steel adjusters. Provides for easy adjustment with both hands and a more custom fit • Exterior inflation system access flap. Allows for clear, direct access to the CO2 cylinder for rearming. CO2 cylinder can be replaced without opening and unfolding the entire PFD • Waist strap and back strap attachment points fully connected and reinforced from inside for added strength • Heavy duty 420 denier nylon packcloth outer cover • Twin 2" wide back straps for comfort and security • Comfortable neck. The neck area has no Velcro or edge binding to cause chafing or abrasion for all-day comfort.

Red ..... P/N 13-04373 ..... ---
Navy Blue ..... P/N 13-04372 ..... ---

REVERE PFD RE-ARMING KIT

This manual PFD Rearming Kit for Comfortmax Inflatable PFDs is an instant CO2 manual inflation system. ..... P/N 13-08831 ..... ---

REVERE COMFORT MAX MANUAL BELT PACK

Specifications: Model: 45-61098-101N. Sizing: Adult Universal. User Weight: More than 90 lbs (> 41kg) Chest Size: 30"-52". Buoyancy: 35 lbs (156 Newtons). Approx. Unit Dimension: 10"x4"x3". Approx. Weight: 2 lbs

Navy ..... P/N 13-08826 ..... ---
Red ..... P/N 13-23257 ..... ---

ARTEX RESQFLARE PRO

The ResQFlare PRO electronic boat flare facilitates rescue by emitting the flash characteristic for the International Morse Code for S-O-S, where the first "S" is represented by three red-orange LED flashes, followed by the "O" which is represented by three cyan LED flashes, and the final "S" which is represented by another three red-orange LED flashes. Simultaneous to the visible red-orange and cyan flashing LEDs, the IR component flashes the same S-O-S pattern that is optimized for visibility via Night Vision Goggles (NVG). Perhaps most impressive, even with the extensive number of visible and IR flashes occurring, the high level of light intensity produced, and the significant light distribution range (Luminous angle ≥ 180°) that is achieved, the ResQFlare PRO still attains an impressive operational life of at least three hours (exceeding RTCM requirements by 50%).

P/N 13-25849 ..... ---

REVERE AQUA LIFE JACKET LIGHT

The AQ40S is a compact flashing life jacket light, automatically water activated by its integral sensors or manually. Its unique size and shape, makes the AQ40S ideal for a variety of life jackets.

Sensor Activated ..... P/N 11-14272 ..... ---
Lead Activated ..... P/N 11-14273 ..... ---

SWITLIK CPR LIFE RAFT WITH PART 91 KIT

SWITLIK's CPR is designed to be a high quality, light weight, best in class coastal life raft, with a convertible canopy system, large, fast deploying water ballast bags and heat sealed construction. The CPR provides 1,140 lbs of inflated buoyancy and 19.6 sq. ft of floor area and offers excellent ventilation as well as total protection from the elements. ..... P/N 13-19317 ..... ---

SEE WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE SELECTION OF EAM SURVIVAL KITS

EAM SURVIVAL RAFTS

Each product is manufactured with the highest quality craftsmanship and are proudly FAA-TSO approved. In addition, EAM is proud to offer customizable raft packaging to meet any client's specifications. When deployed and in the water, the raft may be boarded on either side. Survival items are contained in a kit tied to the raft. Select raft models include a raft canopy, located inside the accessories case, which features two (2) roll-up doors and a rain water collector in the top of the roof panel. The VIP and SAM Series life rafts have auto self-erecting canopies, which have two (2) doors which can be sealed closed with Velcro. Also, the VIP and SAM series canopies are affixed to the life raft with Velcro so if needed the canopy can be removed and reinstalled.

USA: FAA TSO-C70a, Type II
Germany: LBA No. 40.320/12
Japan: JCAB No. 535

• For Air Taxi, Corporate and General Aviation • Single Tube • Compact, lightweight. Constructed of neoprene coated nylon • High tech inflation system • Competitively priced.

Part No.	Canopy	Survival Kit	Rated Capacity	Dimensions (LxWxH)/Wt.	Price
13-16560	Radar Reflective	FAR 121	4	15x13x7/36 lbs.	---
13-16561	Radar Reflective	FAR135	4	15x13x8/39lbs.	---
13-16562	Standard	FAR 121 Special	4	22x13x5/36lbs.	---
13-16565	N/A	N/A	5	15x13x5/20.5lbs.	---
13-16558	Radar Reflective	FAR 121	2	27x8.5x8.5/45lbs.	---
13-16564	Radar Reflective	FAR 121	6	33x16x7/57.5lbs.	---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025. Please view our website for current prices.

SWITLIK TSO-C70A TYPE IIOPR 8 PERSON LIFE AL

SWITLIK's OPR is designed to be a high quality, light weight, offshore life raft, with a convertible canopy system, 5-Year Service and heat sealed construction. The OPR provides 1,350 lbs. of inflated buoyancy and 24 sq. ft. of floor area and offers excellent ventilation as well as total protection from the elements. Quality materials, superior construction.

Part 91 .....P/N 13-21122 ..... ---
Part 135 .....P/N 13-21123 ..... ---

SWITLIK X-BACK LIFE VEST

Features: • Signature SWITLIK X-Back ergonomic design for superior comfort in the seated position • One-size-fits-all: Maximum adjustment capability to fit the largest range of sizes • Dual opening zipper design • Low profile design transfers the load away from your neck and eliminate interference with your helmet • Twin chamber inflatable cell with two oral tubes • Built in locator light & emergency whistle • Storage pockets for excess webbing • Breathable protective cover fabric for reduced thermal burden and increased durability • Reflective binding on inflatable cell • NEW Laser cute Modular Lightweight Load-Carrying Equipment (MOLLE) system permits customization of vest with accessories (Sold Separately) • Integrated grab handle allows wearers to be pulled to safety in a search and rescue scenario. .....P/N 13-25851 ..... ---

EAM HELICOPTER LIFE VEST

This twin cell vest comes in a standard or heavy-duty pouch engineered especially for use in helicopter tour operations. Pouch pack design buckles around the waist for constant wear. The life preserver can easily be pulled out and donned over the head with one quick motion, using a single hand.

P/N 13-22367 ..... ---

INFLATABLE BELT

Features include reflective tape on the bladder for greater visibility, 2" deluxe web belt with buckle, and single point indicator window. Inflates in seconds to over 35 lbs. of buoyancy. One size fits adults over 80 lbs. with 30 - 52" chest size. Will not inhibit your range of motion while hunting or fishing. U S Coast Guard approved Type III. Rearm kit 38MRK.

Specifications: 35 lbs. of buoyancy (over 150 newton) • Equipped with single point indication of arming status • Reflective tape on cover and bladder for greater visibility • Safety whistle attached to bladder • 2" deluxe web belt with buckle • USCG Approved Type III • One size fits adults over 80 lbs .....P/N 14-00681 ..... ---

CLOSED CELL NEOPRENE HOOD

BREATHABLE CONSTANT WEAR AVIATION COVERALL

The MA7348 Closed Cell Neoprene Hood offers increased protection against the elements when worn with Mustang Survival anti-exposure gear. Designed for easy integration with the MSD900, MSD901, MSD585, MAC200 and MAC300, the hood provides exceptional head and neck insulation and includes a lanyard to tether hood to suit, an adjustable mouth guard for protection from spray and a velcro attachment point for an emergency light.

Sizes: N/A or Universal Colors: RED

P/N 13-06380 ..... ---

EAM GENERAL SURVIVAL KIT

This kit contains equipment for survival and search/rescue aids for use by aircraft crew and passengers after an emergency landing in uninhabited terrain. Collection of equipment designed for survival and search & rescue situations in case of an emergency..... P/N 13-12823 ..... ---

NOMEX FLIGHT SUITS

This Nomex flight suit is built to military specification FNS/PD 96-17 (MIL-C-83141A) as worn by all U.S. flight crews. Constructed of 92% Meta Aramid, 5% Para Aramid and 3% conductive fiber fabrics, which makes this garment flame-resistant. Features a two-way zipper with pull, six primary pockets, adjustable waist belt with VELCRO® brand fasteners, knife pocket on the left inseam, pencil pocket on the left sleeve and a gusseted back.

Features: • Made with DuPont™ Nomex® N303 Fiber: Its thermal technology helps protect against hazards associated with electric arcs and flash fires including intense heat and flame. It is protection that's built into the fiber itself. So, it can never be washed out or worn away. • Sewn to Military Specification FNS/PD96-17(MIL-C-83141A) • As Worn By All US Flight Crews • Flame-Resistant Material • Two-Way Zipper with Pull • Six Primary Pockets • Adjustable Waist Belt with Velcro Fastener • Knife Pocket on Left Inseam • Pen/Pencil Pocket on Left Sleeve • Gusseted Back • Sage Green and Tan Flight Suits are Near Infrared (NIR) Compliant

Color	Part No.	Prices starting at
Sage	Call or visit our website for sizes and part numbers	---
Black		---
Tan		---

AVI SURVIVAL PRODUCTS U900 FAA-TSO LIFE PRESERVERS

For use during emergency egress from the aircraft. The AVI Survival Products U900 Life Vest is approved under FAA TSO (TSO-C13g). Its certified for both adults and children over 35 lbs. The life preserver has an open collar design for ease of donning and should be placed over the neck and shoulders. The U900 Life Vest features adjustable waist straps with a single attachment and adjustment point for a perfect fit. The inflation of the life preserver can be accomplished via the installed CO2 Cylinder or the Manual Oral Valve. A water activated Locator Light is installed for visibility in low light conditions.

The U900 Life Preserver has a 10-year interval of inspection. Customizable pack sizes are available to accommodate aircraft stowage locations.

Description	Part No.	Price
U900-501 Yellow 5-Year	13-23641	---
U900-503 Yellow 5-Year with Whistle	13-25776	---
U900-101 Yellow 10-Year	13-23640	---
U900-103 Yellow 10-Year with Whistle	13-25774	---
U900-701 Orange 5-Year	13-23643	---
U900-301 Orange 10-Year	13-23642	---
U900-303 Orange 10-Year with Whistle	13-25775	---

THINK BLUE - YELLOW WATERPROOF BAG

The Surf Bag is a 100% waterproof bag made from expired aviation life vests. It is designed to fit your key fob, card, cash and fit comfortably in your pocket. It can be clipped securely to the leash attachment on your surfboard, your hiking pants, cross country backpack or anywhere else you would like to secure The Surf Bag on your next adventure.

The Surf Bag uses a patented TRU® Zip zipper and is fully waterproof, dustproof, airtight, and submersible (IP67). It glides smoothly into an over molded garage, has a self-healing design, provides a secure and confident closure and is also made in the USA.

Specifications: • External Dimensions Length 6.25" Width 3.75" • Internal Dimensions Length 5.25" Width 3.30" • Material: 100% waterproof material from expired aviation life vests

Yellow Waterproof Bag.....P/N 13-25701 ..... ---
The Surf Bag - Air Cruisers .....P/N 13-25748 ..... ---

PS

SWITLIK AVIATOR LIFE VEST

The Switlik Aviator Life Vest is supremely more comfortable to wear, and specifically designed for the seated position in your aircraft. It's the vest you'll forget you're wearing. The new interior cell folding technique combined with our open V-Neck design allows the Aviator to lay over your shoulders relieving the pressure on your neck during those long flights. We have located our new beaded handle in the center of the vest allowing for an easier approach for deployment. The breakaway safety feature eliminates the risk of snagging. The red handle also offers the best visibility in low light conditions. The Switlik Zipper closure keeps your inflatable vest secure at all times. The simple reliable dual breakaway design provides immediate inflation when activated. Backup oral inflation tubes are conveniently located on either side of the vest and easily reached through the side access flaps.

EV-35 Blue .....P/N 13-12687 ..... ---
EV-35 Orange.....P/N 13-16185 ..... ---

SWITLIK AVIATION LIFE VEST AV-35H

AV-35H Double Cell Airline Passenger Vest. The AV-35H donning style features a single waist strap and adjusting buckle without a back panel. The AV-35H donning style features a single waist strap and adjusting buckle without a back panel.

Standard .....P/N 13-16031 ..... ---
5 Year .....P/N 13-18410 ..... ---
10 Year .....P/N 13-18413 ..... ---

SWITLIK AVIATION LIFE VEST AV-200

The Switlik AV-200 is the latest advancement is airline life vests. Offering airlines a lightweight, compact and inexpensive vest while meeting all the safety features required by the FAA. The AV-200 donning style features a single waist strap with a single adjusting buckle. Meets FAA/TSO C-13f Approval: 2 Year TBO.

Standard .....P/N 13-16032 ..... ---
5 Year .....P/N 13-18411 ..... ---
10 Year .....P/N 13-18414 ..... ---

SWITLIK INFANT LIFE

The ILV-20 is a dual chamber, 23-pound buoyancy Infant Life Vest, (FAA/TSO-Cl3d defines "infant" as a wearer with a weight less than 35 pounds). The underarm configuration allows this vest to be used by wearers whose shorter necks prevent use of the standard "yoke-type" vest.

2 Year .....P/N 13-18409 ..... ---
5 Year .....P/N 13-18412 ..... ---
10 Year .....P/N 13-18415 ..... ---

SWITLIK X-BACK BASIC LIFE VEST BLUE

The X-Back Basic incorporates the same fit, adjustment and overall comfort users have come to expect from the Switlik X-Back, with the addition of two permanently attached all-in-one pockets in lieu place of the MOLLE vest attachment loops. This new vest is intended to be a modern version of SWITLIK's previous HV-35 Helicopter Vest. This vest is for users who do not need the MOLLE system and all its accessories. The pockets attached to the vest are intended to fit your essentials "keys, phone, sunglasses & wallet" (and yes, the newest smart phones will fit!) Color: Blue.....P/N 13-18416 ..... ---

SWITLIK ALL PAX LIFE PRESERVER BLUE

Whether outfitting a personal aircraft, or a fleet of passengers, the SWITLIK ALL-PAX life preserver is a perfect solution. The ALL-PAX Life preserver has maximum adjustment capability to fit the largest range of size, and provides sufficient flotation for children and adults making it a great product solution for a variety of passengers. Designed for easy donning and constant wear, the ALL-PAX passenger life preserver is perfect for over-water flight protection. Color: Blue.

P/N 13-18741 ..... ---

EAM UXF-35 LIFE VEST (10 YEAR)

This single cell vest is the lightest weight aviation vest in the world, weighing only .9 lbs (410 grams). 10 year frequency of inspection. Standard 5 year version also available (P/N 12-02355). TSO-C13f Approved.

Passenger Yelow .....P/N 13-12684 ..... ---
Crew Molten Orange .....P/N 13-21624 ..... ---

SWITLIK X BACK LEG STRAPS

Quick donning adjustable leg straps are neatly stored using the Velcro™ ties making them a clean and simple accessory to have .....P/N 13-12691 .....**---/pr.**

SWITLIK X BACK MOBILE PHONE POCKET

Safe, secure and easily accessible cell phone holster fits all popular models. .....P/N 13-12692 ..... ---

SWITLIK X BACK BUDDY CLIP

When ditching your aircraft it's important for survivors to stay together. The Switlik Buddy Clip allows you to quickly tether yourselves together via a 6 foot (1.8 m) 550 lb (250 kg) test line with a CRES snap hook. When not in use it is neatly packed into a nylon pouch. The pouch is designed to be attached with snaps to the MOLLE system and by dead ending the buddy line loop directly to the MOLLE Loops as a back up.

P/N 13-12693 ..... ---

SWITLIK X BACK ALL IN ONE POCKET

The All-In-One pocket allows you to organize all your equipment into one area. Complete with two zipper pockets, interior MOLLE straps, interior compartments, and a conveniently located pen holder on the outside. Available in left and right.

Right Side.....P/N 13-12694 ..... ---
Left Side .....P/N 13-12695 ..... ---

SWITLIK SURVIVAL PRODUCTS X BACK BOTTLE HOLSTER HEEDS

The Switlik HEEDS Holster is specifically designed to be mounted on an angle, readily accessible and unobstructed by safety restraints. This ideal location reduces fatigue by keeping weight off your neck.

P/N 13-12689 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PROFORCE SURVIVAL PRODUCTS

SNUGPAK SOFTIE ELITE 3 SLEEPING BAG

Equipped with the unique easy to deploy EPS Expanda Panel System and its own sturdy compression stuff sack. **Specifications**: • Temp. Rating: Comfort 23°F / Low 14°F (-5°C / -10°C) • Weight: 56oz • Length: 86" • Chest: 65" + EPS • Pack Size: 9" x 9" (fully compressed)

Black.....P/N 13-08780 ..... ---
Olive .....P/N 13-08779 ..... ---

SNUGPAK SOFTIE 9 HAWK SLEEPING BAG

Temp. Rating: Comfort 23°F / Low 14°F (-5°C / -10°C) • Weight: 53oz • Length: 86" • Chest: 60"
• Color: Olive • Pack Size: 9" x 9" (fully compressed)

P/N 13-08777 ..... ---

SNUGPAK JUNGLE BAG SLEEPING BAG

The Jungle Bag is an ideal sleeping bag for tropical conditions. Travelsoft Insulation was selected and chosen for its exceptional performance in hot and humid conditions. Concealed roll away mosquito netting which can be zipped over the face. **Specifications**: • Temp. Rating: Comfort 45°F / Low 36°F (7°C / 2C) • Weight: 27oz • Length: 86" • Chest: 60" • Pack Size: 6" x 6" (fully compressed)

Black.....P/N 13-08783 ..... ---
Olive .....P/N 13-08782 ..... ---
Desert Tan.....P/N 13-10258 ..... ---

PROFORCE DRI-SAK

Store your sleeping bag, clothing, and any other items you want to keep dry in a Dri-Sak™. They are seam taped, nylon with a TPU Film Lamination to ensure protection if your gear takes an unexpected dive into the water. They are a great addition that can be used in conjunction with any of the Snugpak® backpacks or any other backpacks. Not intended to be submerged for extended periods of time. Roll-top closure must be closed correctly (recommended rolling 3 times and buckled to keep contents dry). Contact with abrasive or sharp objects can damage and/or compromise the integrity and waterproofness of our Dri-Sak bags. D-Rings for securing if necessary.

Medium - Dimensions: 6.75" x 18.125" / 17 x 46 cm. Volume: 8 liters. Weight: 2.29 oz. / 60 g

Olive .....P/N 13-08784 ..... ---
Black.....P/N 13-08785 ..... ---
Coyote .....P/N 13-08786 ..... ---

Large - Dimensions: 8.5" x 20.75" / 22 x 53 cm. Volume: 13 liters. Weight: 3.17 oz. / 90 g.

Olive .....P/N 13-08787 ..... ---
Black.....P/N 13-08788 ..... ---
Coyote .....P/N 13-08789 ..... ---

PROFORCE PORTABLE WATER FILTRATION RADIOLOGICAL REPLACEMENT FILTER

Portable water filtration system replacement filter for the 28oz and 38oz protable water bottle and centeen. .....P/N 13-12002 ..... ---

MULTIMAT SUPERLITE MAT

Offering the lightest and most compact options, using the very latest ultra light materials, meeting the highest standards for quality and reliability. Ultra-lightweight 20D rip-stop polyester top and base fabric. Quality ultra-lightweight, vertically drilled 14kg/m3 PU foam core for lasting performance and full inflation. TPU membrane for air-tight seal. Easy valve can be locked while adding air by mouth. Mats supplied with stuff sack matching upper fabric, retaining band and repair kit. Size: 72" x 20" x 1" (1830 x 510 x 25mm). Weight: 18 oz (530g).

Specifications: • Temp Range: 5ºF to 130ºF (-15°C to +55°C) • Color: Olive/Black (reversible) • Compactness: 10.25" x 4.75" mid-folded (260 x 120mm).....P/N 13-10253 ..... ---

PROFORCE EMERGENCY SURVIVAL BAG

The NDûR Emergency Survival Bag comes in a small compact packable size but yet opens into a full sized sleeping bag that will fit a fully clothed adult. It is made of a strong insulating material which reflects back 90% of the user's body heat. It not only helps to provide protection in various weather conditions but also prevents and assists treatment of Hypothermia.

P/N 13-08798 ..... ---

PROFORCE LENSATIC COMPASS

Lensatic Compass is great for anyone's survival bag to help one if the situation arises where they are separated from their group, lost their way on the trail or find yoruself in a dire drastic survival situation.

P/N 13-12003 ..... ---

PROFORCE MAP COMPASS

Map Compass features include: 3 scales, Liquid Filled, Map Symbol Drawing Holes, Lanyard included, Acrylic clear base w/ruler, Rotating Rings, Index lines, and Magnifier. 1.52oz. 5.51x2.36x.41.

P/N 13-12004 ..... ---

SNUGNUT

The Snugnut is an insulated hat and earmuffs in one. Constructed from the same high performance fabrics and Softie insulation used in our high performance sleeping bags this UK made deerstalker style hat is the ultimate in both day and night cold weather protection for your nut (AKA, Head) and ears.

Black.....P/N 13-10267 ..... ---
Olive .....P/N 13-10266 ..... ---

PILE PANTS

Temperature: 23°F / 14°F -5°C / -10°C. Team up these pile lined Paratex Light pants with either the Snugpak® Pile Smock or Pile Elite Smock for an exceptionally warm wicking base layer system. Designed to be worn next to the skin to maximize the moisture management properties. Weights: 23oz to 27oz (Depending on Size).

Size	Olive	Price	Black	Price
Small	13-10264	---	13-10265-S	---
Medium	13-10264-M	---	13-10265-M	---
Large	13-10264-L	---	13-10265-L	---
X-Large	13-10264-XL	---	13-10265-XL	---
XX-Large	13-10264-XXL	---	13-10265-XXL	---

PS

PROFORCE SURVIVAL PRODUCTS

PROFORCE ARMY FIRE STEELS & STRIKER

Easy and safe to use – Used by Swedish Special Forces – Will light a fire or ignite the fuel in a camping stove in rain or snow – Generates a 3000 C spark – Approved, preferred and recommended by Survival Experts Worldwide. Approx. 12,000 Strikes

P/N 13-08794 ..... ---

PROFORCE COMMANDO WIRE SAW

The strongest (over 100 lbs breaking strain) and most effective wire saw available. Cuts through wood, plastic, bone and even soft metals. Constructed using 8 strands of interwoven stainless steel wire, will easily reach inaccessible places. Attach rope to split rings on each end to cut higher branches. 24" sawing edge. Can also be used as a snare. Many uses for the outdoor and house. Retail Packaged .....P/N 13-08795 ..... ---

PROFORCE MARINE SAFETY WHISTLE

High pitched signaling whistle. NATO approved. One piece construction with lanyard hole. Bright Orange. Made in the UK. Ideal for Survival Kits .....P/N 13-08801 ..... ---

PROFORCE HEAVY DUTY BUNGEE CORDS

Ideal for securing cargo, packs and just about anything. Great for shelter building. Heavy duty 30" long x 5/16" in diameter with black plastic coated hooks. Sold in 4 packs. Color: Olive

P/N 13-08803 ..... ---

PROFORCE COMBAT SURVIVAL TIN

Originally designed for the British SAS. Tightly packed in a useful metal tin. Contents include compass, whistle, candle, fishing kit, waterproof survival instructions, wind & waterproof matches, pencil, sewing kit, multi use flexible wire saw w/ split rings (can be used as a bow saw or snare wire), water tablets, safety pins, fire lighting flint and striker and multifunctional knife w / fold out scissors. Assembled in the US. Contents may vary.....P/N 13-08802 ..... ---

BRITE STRIKE BRITE-RESCUE SIGNALING SYSTEM

Brite-Rescue™ is an emergency lighted signaling system. Its ultra-compact size of 1.5" x 5" easily fits into the neoprene pouch and unrolls to 10' long. It has 6 international amber APALS-AIR® light strips, 2 photo-luminescent tape strips, 2 Solas radar reflective tape strips, and offers over 200 hours of signalling capabilities, or a total of 1200 hours if used individually. The APALS-AIR® has two strobe modes, a steady on and can be turned off and reused. The LED's can be seen for 2 horizontal miles and 3 miles by air. It can be used on land and floats on water, so don't take off on your outdoor adventure without one.

P/N 13-21092 ..... ---

THE SNAPPER CANOPY ESCAPE TOOL

The Snapper (Tool for canopy escape to break shards of plastic after flip-over for escape). This tool was developed specifically for the RVs. This little tool could really save the day in the event of a flip over in your RV. We learned that almost all flip overs result in the canopy being broken and cracked. This little tool could really save the day in the event of a flip over in your RV. The partially broken canopy has sharp shards of Plexiglas that are impossible to break off with your bare hands. Makes short work of breaking away the shards of plastic up to ¼" thick. This tool is laser cut .125", heat treated, aircraft grade aluminum, de-burred, and tumbled to eliminate sharp edges. P/N 05-12378 ..... ---

PROFORCE EMERGENCY SIGNAL MIRROR

Robust high impact plastic. Easy to use with one hand. Suns reflection can be seen for many miles. Floats if accidentally dropped in water. Retail Packaged. Measures 2" x 3".

P/N 13-08796 ..... ---

MUSTANG INFLATABLE PFD REARMING KIT

Designed to rearm your Mustang inflatable after deployment. This is a 1F Automatic and 3F Manual Inflatable PFD Re-Arm Kit E.

P/N 13-20153 ..... ---

TRUE NO-TOUCH CARABINER TOOL

The No-Touch Carabiner Tool works as an extension of your hand. With this antimicrobial, brass plated took, you can use public touchscreens, keypads, and even open doors and bottles without leaving a fingerprint behind or taking a germ with you. The uniquely designed locking clip remains open to ensure it will never get stuck on any door handle. This multi-functional Carabiner Tool also includes a built-in box opener, flat head driver, bottle opener, and a stylus tip for touchscreen devices. Now you can do it all without touching a thing .....P/N 13-23258 ..... ---

FLIGHT OUTFITTERS PILOT SURVIVAL KNIFE

The Pilot Survival Knife is more than just a blade. This knife was designed to be the perfect side-kick accessory for pilots. In addition to the two-in-one blade design, there is a built-in LED flashlight on the top of the knife. The handle also features a seatbelt cutter, a glass breaker tool, and a clip to secure the knife on a belt or bag. All of these features are neatly contained within the rugged yet attractive grey and black handle. Two-in-one blade design, Integrated LED Flashlight, Seatbelt cutter, Glass breaker tool, and Belt Clip .....P/N 13-20665 .....

BRITE STRIKE SURVIVAL LIGHT PACK

Brite Strike Survival Pack. This pack lasts for 200 plus hours, can be seen up to 1 mile and has 3 different modes. These are waterproof, dustproof and shockproof. Comes with a heavy duty 3m® Adhesive Back. Six different colors. Includes: 2 Green, 2 Ir 2 Red 2 White, 1 Blue, and 1 Amber. .....P/N 13-16429 ..... ---

BRITE STRIKE EXECUTIVE PRECISION LIGHTING INSTRUMENT

The EPLI™ is the perfect lighting instrument for any outdoor adventure. Super bright, waterproof and shockproof, it slips easily in a day pack or pocket. The EPLI™ has a strobe setting that can be used for SOS signaling and runs on easy to find low cost AAA batteries. Slim and sleek LED penlight made of high grade aircraft aluminum with a graphite anodized finish. The EPLI™ has the heart of a true rugged outdoor flashlight. .....P/N 13-16430 ..... ---

PS

GLOVES – SURVIVAL KITS

GENERAL UTILITY PLUS GLOVES

All-purpose and abrasion-resistant. This is the ideal performance work glove. Heavy duty non-slip reinforcement on the palm, fingers and thumb ensures lasting durability and grip. The ergonomic design reduces hand fatigue while enhancing wrist support. Features a terry cloth brow wipe on the thumb. This glove is ideal for any number of rugged applications.

Features: • Durable non-slip reinforcement on palm, fingers and thumb • Neoprene cuff adds support and secures fit; click here for more detailed sizing instructions • Breathable stretch nylon on top of hand wicks moisture and heat • Terry cloth thumb for wiping sweat and debris • Machine washable/air dry

Large .....P/N 13-09814 ..... ---
X-Large.....P/N 13-09815 ..... ---

PRO XT GLOVES

Pro XT is an extra heavy duty glove designed for rugged applications and total hand protection. The non-slip reinforced palm, fingers and thumb ensures lasting durability and grip. The unique 'one-piece saddle' reinforces this critical wear area. The top of hand features double knuckle protection and moisture wicking fabrics. It also features a terry cloth thumb wipe and supportive, velcro cuff and closure. If you are doing heavy duty work like logging, landscaping, demolition or farming - this is the glove for you.

Features: • Durable non-slip reinforcement on palm, fingers and thumb • Extra grip saddle extends over index finger and thumb • Double knuckle protection on top of hand • Extended cuff protects wrist bone and adds support • Extensive reinforcement and protection for rugged applications • Machine washable/air dry • Click here for more detailed sizing instructions

Medium.....P/N 13-09819 ..... ---
Large .....P/N 13-09820 ..... ---
X-Large.....P/N 13-09821 ..... ---

WATERPROOF WINTER PLUS GLOVES

Waterproof Winter Plus is the ultimate winter work glove. 100% Waterproof and windproof, this glove is designed to keep your hands warm and dry without sacrificing dexterity. Triple layer technology of micro-fleece liner, waterproof membrane, and form-fit outer shell. Durable, dexterous, comfortable and warm - if you work or live in cold, wet winters you need this glove.

Features: • Waterproof, windproof and breathable inner membrane keeps hands warm and dry • Durable and form-fit outer shell maintains dexterity • Flexible Clarino™ non-slip palm reinforcement • Grips in wet and dry conditions and increases durability • Internal knuckle protection on top of hand • Double-stitched bonded nylon thread for extended life • Terry cloth thumb for wiping sweat and debris (or nose) • Machine wash/ line dry

Medium.....P/N 13-09822 ..... ---
Large .....P/N 13-09823 ..... ---
X-Large.....P/N 13-09824 ..... ---

MAGID ROC GP110 GREY GLOVES

Made from an ultra-soft, grey, high-density, 13-gauge, seamless machine knit nylon blend, the ROC GP110 Work Gloves feature a full black micro foam coating offering exceptional comfort, flexibility, dexterity and added protection to the palm and back of the hand.

Micro foam nitrile coating improves upon the softness of standard nitrile while delivering a superior grip in dry or oily conditions. The nylon blended shell is ultra-soft and breathable. In addition to its comfort-enhancing properties, the ROC GP110 Gloves provide protection against cuts and abrasions, offering ANSI Cut Level 1 protection and ANSI Level 4 abrasion resistance. ROC GP110 Gloves have color coded knit wrists with matching color overcasts for easy sorting and dispensing and incorporate a rubber band edge finish to help prevent unraveling.

Size 11.....P/N 13-09638 ..... ---

FLIGHT LEVEL 220 SURVIVAL KITS

Flight Level 220 is a brand built on the importance of having the proper equipment in an emergency situation. Safety and survival start with preparedness; we make this easier by providing high quality first aid and survival products incased in durable materials to survive the elements.

Our products are designed by pilots with many hours of experience, with the understanding of safety in the forefront of all operations. Our team also consists of emergency and medical professionals that are on the front lines for first responders. Together we designed FL220 family of products to meet or exceed all aviation regulations.

Quality and integrity in our products and service are the most important part of our business. We stand behind our products and support our customers around the world. Aviation safety is our passion and mission. We strive to make your next flight better prepared with more confidence in your safety.

STANDARD

Flagship kit from Flight Level 220. Combining a jungle kit, first aid and survival kit in to one practical unit. Over 100 item to assist you in any challenge, including rendering first aid, signaling, fire, shelter, and fluid, food replacement. All items in a water tight, dust proof, crush proof Pelican Case. Essential for over water or over jungle flights. Safety comes with preparation for any situation. Meets and exceeds INAC requirements.

Specifications:
• 10.62" L x 9.68" W x 4.87" D.
• 7 lbs (3.2 Kg Approx.)

P/N 13-15955 ..... ---

LITE

The FL220 Survival Kit Lite is the perfect fit for the pilot that invest in safety. General aviation can only be safe with the right safety equipment on board. FL220 has put together and array of essential and "what if" items in a small durable case to cover any situation. Pilots think safety first and Flight Level agrees. Meets and exceeds FAA Far 91 requirements.

Specifications:
• 9.12" L x 7.56" W x 4.37" D.
• 8.5 lbs (3.9 Kg Approx.).

P/N 13-15956 ..... ---

FAA

The FL220 First Aid Kit is built to ensure its integrity in any situation. The Pelican case gives its users confidence in the content when needed most. Design to meet and exceed FAA Far 91 • 121 • 135 requirements as well as other aviation authorities. Each Kit is inspected and secured with a numbered break-away tag.

Specifications:
• 11.64" L x 8.34" W x 3.78" D.
• 3.5 lbs (1.6 Kg Approx.).

P/N 13-15957 ..... ---

FAA DELUXE

The FL220 Expanded Survival Kit was design to exceed all expectations for safety and survival. Equipped for commercial or general aviation aircraft, it stands ready for any situation. FAA FAR 91, 121, 135 - INAC.

Specifications:
• 10.62" L x 9.68" W x 6.87" D.
• 8.5 lbs (3.9 Kg Approx.).

P/N 13-15958 ..... ---

PS

SURVIVAL KITS - FIRST AID KITS

NYLON CASE FIRST AID KITS

MODEL A FIRST AID KIT

International Orange Case Velcro Hold-Downs 10 FA Unit

Kit Contents:

• 1" X 3" Adhesive Bandages (16 Bandages) • First Aid Instruction Book • Adhesive Tape (2 Rolls) 1/2" x 2-1/2" yards each • 24" X 72" Gauze Compress • 4" Bandage Compress • Scissors • 2 Triangular Bandages 40" x 40" x 56" • Ammonia Inhalants (10 Capsules) • 6 Burn Gel Packets • Wire Splints 3-3/4" x 27" • PVP Iodine Wipes (10 Wipes) • Orange First Aid Case.

P/N 13-02944 ..... ---

MODEL B FIRST AID KIT

International Orange Case Velcro

Kit Contents:

• Burn Gel Packets • Aluminized Thermal Blanket • Sissors • Emergency Strobe • Hema-Flex 4" Bandage Compress • 36" X 48" Gauze Compress • 1" X 3" Adhesive Strips • 1/2" Adhesive Tape (2 Rolls) • 2 Triangular Bandages • Ammonia Inhalants • Wire Splints • PVP Iodine Wipes

P/N 13-02945 ..... ---

FIRST-AID SAFETY SCISSORS

Angle Kit Plastic Handle Scissors 4 1/2" can be used in all first aid kits.

P/N 13-12036 ..... ---

ASA FLIGHT BAG FIRST-AID KIT

A first-aid kit is a must for any outing, especially an airplane adventure. This convenient and light weight kit contains first-aid essentials. Included in PVC Coated Nylon zip pouch..... P/N 13-24526 ..... ---

AIRCRAFT EMERGENCY SURVIVAL KIT

This is an ideal emergency support kit for plane, boat, home, office or school. This kit will sustain a person for 3 days. Includes: 2400 calories of ready-to-eat US Coast Guard approved food, sterile Coast Guard approved water, a lightweight (54' x 48") durable, waterproof blanket, & assorted first aid supplies, matches etc.

P/N 9641 ..... ---

ODEO LED FLARE

Traditional flares will illuminate for around 30 seconds before extinguishing: the Odeo Flare™ illuminates for around 6 hours at full illumination. Because no pyro-technics are used, the Odeo Flare™ is totally safe when switched off, and because it uses battery power (high power Lithium or Alkaline cells), it can even be safely posted or carried in baggage on flights.

P/N 13-18207 ..... ---

SMARTKNIFE+ 15 IN 1 MULTITOOL

The SmartKnife+ is a multi-tool wrapped around a super sharp 2.375" black oxidized pocket knife. The multi-tool handle features a small, medium and large flat driver, magnetic ¼" bit driver and holder, file, wire strippers, rulers, wrenches, pry bar, pocket clip and bottle opener, making this the smartest knife you can put in your pocket. Features: •2.375" partially-serrated locking drop point knife •Black oxidized 420 stainless steel •Anodized aluminum •Pocket clip •Pry bar •Bottle opener •Screwdrivers •¼" magnetic bit storage •Wire strippers Inch and centimeter rulers •5 wrenches (6mm – 14mm bolts) • Length: 4.375" (closed) / 6.875" (open) •Width: 1.75" •Depth: 0.5"

P/N 13-25660 ..... ---

SPACE EMERGENCY BLANKETS

This "two ounces of protection that fits in the palm of your hand" is about the size of a deck of cards when folded, but opens into a 56" (142cm) by 84" (214cm) tough and durable thermal reflective blanket. The Space Emergency Blanket has helped save countless lives, by providing needed personal protection from the harsh elements of Mother Nature. Available in orange on one side and silver on the other, a combination providing greater air-to-ground visibility, particularly against a snow or water background.....P/N 13-06933 ..... ---

TRAFFIC WAND

This lighted traffic directing wand comes with 6 colored lense discs that change the color glow of the white tapered top. **Features**: GSA compliant for US military use • Made in the USA of sturdy gray plastic • O-ring sealed for waterproof operation in rainy weather • Lenses (2-red, 1 ea. amber, white, blue, & green), as well as a spare light bulb are conveniently stored in the end cap .....P/N 14-00902 ..... ---

LIGHTED LINEMAN WANDS

• Used by US Air force • Up to 400 hours operation • 17" long • Waterproof • Uses 2 D batteries (not included) • Fluorescent coated diffuser enhances red light output.

P/N 13-08959 ..... ---

LED AIRCRAFT PARKING WAND 22" RED LED

Mini LED Signal Lite with 6 LED's. 500+ Hours Runtime with 2 D Batteries. Great for Cars or for Security Uses. LED Bulb Signal/Traffic Lite. 6 Sets of LED Lites. Ultra High Visability. 21 Inches length. Tough ABS construction. 400 Hour battery life.

22" Red.....P/N 11-10803 ..... ---
22" White .....P/N 11-10804 ..... ---

STROBEWAND LIGHT

The Strobewand is a hand held, battery powered warning light wand. Designed as a durable, quality-built, essential for traffic control. The Strobewand quickly attracts attention on the ramp. This Strobewand can be operated in the steady state or, with a flip of the switch, produce up to 120 flashes per minute. And readily tucked in a trunk or hung from the belt. .....P/N 14-00833 ..... ---

PS

THE TRAVELER KIT

The Traveler Kit - Personal Care Package is appreciated by everyone from busy executives to sports enthusiasts. It's the perfect addition to any car as the "other spare" to have on hand for life's unexpected moments. Designed to support one person for up to three days, it contains over 50 support items in a custom nylon carrying bag with reinforced straps. "The Traveler" is ready to go anywhere.

P/N 13-03607 ..... ---

EMERGENCY FOOD RATIONS

Individualized portions eliminate the messy breaking-up that occurs with other bars Allows for on-land emergency consumption in a high-stress active situation. Contains no cholesterol or tropical oils. Enriched with vitamins and minerals exceeding the RDA requirements. Pleasant lemon flavor which appeals to everyone. 5 year Shelf Life. Non-Thirst Provoking. Withstands Temperatures of -40° F to 300°F (-40°C to 149°C)

- **13-03602**: Ready to Eat- Each package contains 3 pre-measured 400 calorie meals.
- **13-03601**: Ready to Eat: Each package contains 6 pre-measured 400 calorie meals.
- **13-03599**: Ready to Eat: Each package contains 9 pre-measured 400 calorie meals.

Mainstay™ 3600 .....P/N 13-03599 ..... ---
Mainstay™ 2400 .....P/N 13-03601 ..... ---
Mainstay™ 1200 .....P/N 13-03602 ..... ---

EMERGENCY BLANKET

This Emergency Blanket (52" x 82.5", 1.5 oz.) provides personal protection from rain, wind, heat, and cold. It's manufactured from extremely lightweight, flexible, space-age material, and retains up to 90% body heat in cold weather. It even deflects heat in hot climates and can be used to offset hypothermic reactions. The Emergency Blanket is waterproof, reusable, and portable. It's perfect for camping trips and sporting events in addition to emergencies. Keep several on hand for the unexpected!

P/N 13-03604 ..... ---

COCOON SLEEPING BAG

The All Weather Pocket Size Sleeping Bag The Cocoon Sleeping Bag (84" x 36") provides personal protection from rain, wind, heat, and cold. It's manufactured from extremely lightweight, flexible, space-age material, and retains up to 90% body heat in cold weather. It even deflects heat in hot climates and can be used to offset hypothermic reactions. The Cocoon is waterproof,reusable, and portable. Keep several on hand for the unexpected!.

P/N 13-03603 ..... ---

RESCUEME EDF1 OCEAN SIGNAL FLARE

The rescueME EDF1 electronic distress flare offers users a safe and long-lasting solution to visual signalling in an emergency. The light output is a beam of over 30° throughout the full 360° azimuth, providing in excess of 6 times more light coverage than other electronic flares*. Light is also distributed throughout the hemisphere above the unit to ensure visibility from the air. Unlike single use pyrotechnic flares the rescueME EDF1 can be used repeatedly in any of its four modes, ensuring continued visibility is maintained over a longer period. The unit is both safe to store and operate while also eliminating any worries associated with disposal. The compact size and rugged design means the rescueME EDF1 is the perfect safety product for a grab bag, life raft or hiker's backpack.

P/N 13-20241 ..... ---
Replacement Battery Pack .....P/N 13-20243 ..... ---

THE WALLACE GUIDEBOOK

For Emergency Care & Survival - When you're faced with a disaster, you can often face physical and psychological strain. It's often hard to remember what to do in an emergency situation, and this is exactly why we've written the Wallace Guidebook. This book is specifically designed to present the basics of survival in an extremely easy-to-understand manner. This book discusses the following topics, plus many more: Choking, Heart Attack, CPR, Shock, Burns, Emotional Trauma, Bleeding, Fainting, Wounds, Broken Bones, Fractured Bones, Back Injury, Childbirth, Auto Breakdown, Temperature Extremes, and the 1st and 2nd Rules of Survival. It's not fun to be in one of these situations, but having a book like this nearby gives you a better chance of a happy ending .....P/N 13-03597 ..... ---

EMERGENCY WATER PACKETS

Mainstay™ Water Packets - All water is not created equal! Here at Survivor Industries we have spent years perfecting our Mainstay™ Water Packets. The final result is a portable product with a 5-year shelf life. Other Key Benefits: • U.S. Coast Guard approved • No Oxygen Transfer (In other words, no chance of bacterial contamination) • Pre-Measured Packets make the water easy to dispense, and potential for loss is minimized. If a packet is destroyed, only 4.224 ounces (125 ml) would be lost • Easy to Transport - just 18 lbs. (8.17 kg) per case of 60 packets • No special storage required - it can withstand temperatures from (-40°F to 210°F) (-40°C to 99°C) • Very Low Cost • No Cups Needed!

P/N 13-03598 ..... ---

PS

SURVIVAL KITS

Crashkit Personal and Professional Flight Line Series aviation survival kits are quickly becoming an industry leader in top quality aviation survival kits. Numerous kits are available to suit you piloting and survival needs.

CRASHKIT 2LITE SURVIVAL KIT

Smaller, lighter, cheaper!
The 'Crashkit 2Lite' now contains 152 unique and essential items specific to shelter, signal, fire and water purification. This kit DOES NOT contain additional 'luxury' items such as survival rations, prepacked water, hand/foot warmers etc.
Housed in a Pelican 1170 Case, the 'Crashkit 2Lite' is smaller and lighter, yet still plenty robust for many applications. Designed to comfortably sustain 2 people for 7 days, this kit exceeds all Transport Canada compliance standards for both Survival and First Aid, Type B (6+).
The 'Crashkit 2Lite' has been designed for use in smaller GA light aircraft and contains 152 essential items needed to sustain two people. This Aviation kit contains multiple options for fire, water, shelter and signal. This kit also includes Aquatabs Water Purification Tablets, Gerber Multitool, Spark-Lite Flint and Tinder along with our very own Crashkit brand Firecord, Knotcard and many other proven survival items.
The kit is packaged in a Pelican 1170 case, is lightweight and compact for ease of storage. Content list is approximate.
Specifications: Dimensions: 29.6 x 21.2 x 9.6 cm
P/N 13-24199 ..... ---

CRASHKIT 10:7 SURVIVAL KIT

The Crashkit 10: 7 is intended for commercial aircraft. The Crashkit 10:7 has enough supplies to sustain ten people for seven days in the event of a crash. Various means of food, fire, water and shelter allow for multiple options; for example, this kit includes not only Mainstay water, but the means for purification, as well as hot chocolate, and tea. Within this indestructible, crushproof and waterproof Pelican 1520 case, 733 of the most essential items needed in a survival situation are packaged and ready for easy use. Every item included in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, and meets or exceeds Transport Canada's Canadian Aviation Regulations to facilitate survival and rescue.....P/N 13-22469 ..... ---

GOGIRL TRAVEL COOLIE

Important Note: GoGirl products can only be shipped within the USA. Cannot ship internationally.
A simpler way to store the GoGirl. Just fold your GoGirl in half and insert into the GoGirl Travel Coolie. Makes carrying in a pocket easier than before. Great for fishing and camping.
Note: *GoGirl funnel sold separately.
P/N 13-22449 ..... ---

GOGIRL SINGLE TUBE

Includes re-usable tube, baggie and tissue. It's a kit in a tube ready to go! Made from Medical Grade Silicone. Lavender with Pink Tube.....P/N 13-08566 ..... ---

CRASHKIT 2-7 SURVIVAL KIT

As a pilot with a professional responsibility to others, we know you will want only the best survival options. The 'Crashkit 2:7' has been designed for use in a typical GA light aircraft and contains over 200 essential items needed to sustain two people for seven days. This Aviation kit contains multiple options for the provision of food, fire and water, including Aquatabs Water Purification Tablets and the Spark-Lite Flint and Tinder kit. The kit is packaged in a Pelican 1200 case and remains lightweight and compact for ease of storage. As with all Crashkits, all products have satisfied rigorous testing to ensure they surpass Transport Canada regulations for aviation. Crashkit 2:7 exceeds all Transport Canada and Federal Aviation Administration regulations for both survival and first aid, 1-6 person. Dimensions: 27 x 24.6 x 12.4 cm (10.62" x 9.68" x 4.87") Weight: 4.31 kg or 9.50 lbs .....P/N 13-04690 ..... ---

CRASHKIT 4-7 SURVIVAL KIT

The Crashkit 4-7, designed for use in typical GA light aircraft and commercial aircraft, contains the materials necessary to sustain four people for seven days in the event of a crash. The variation of items within the kit allows for multiple options for food, fire, water and shelter; for example, in addition to the Mainstay packaged food, a fishing kit and snare are also included. This kit contains 232 of the most essential items needed in a survival situation, packaged within an indestructible Pelican 1400 case. Every item included in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, and meets or exceeds Transport Canada's Canadian Aviation Regulations to facilitate survival and rescue. Dimensions: 13.37" x 11.62" x 6.00" (34 x 29.5 x 15.2 cm) Weight: 17.55lbs Contents: 232 items covering food, fire, water, shelter, and first aid Case: Pelican 1400 case - tough, watertight, polycarbonate case Kit Coverage: 4 people for 7 days (or longer dependent on situation) Optional Acc's: Parachute deployment system; Warranty: Lifetime.
P/N 13-04691 ..... ---

CRASHKIT 6-7 SURVIVAL KIT

Intended for commercial aircrafts, our Crashkit 6-7 has enough materials to sustain six people for seven days in the event of a crash. Various means of food, fire, water and shelter allow for multiple options; for example, this kit includes not only Mainstay water, but the means for purification, as well as hot chocolate or tea. Within this indestructible, crushproof and waterproof Pelican 1450 case, 261 of the most essential items needed in a survival situation are packaged and ready for easy use. Every item included in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, and meets or exceeds Transport Canada's Canadian Aviation Regulations to facilitate survival and rescue. Dimensions: 16" x 13" x 6.88" (40.6 x 33 x 17.5 cm) Weight: 22.80lbs Contents : 261 items covering food, fire, water, shelter, and first aid Case: Pelican 1450 case - tough, watertight, polycarbonate case Kit Coverage: 6 people for 7 days (or longer dependent on situation) Optional Acc's: Parachute deployment system; Warranty: Lifetime
P/N 13-04692 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

SNOW BROOM

The SNO BRuM offers pilots a way to quickly sweep snow off aircraft wings and away from the user. Great for high wing aircraft.
The durable molded polyethylene foam head has been lab-tested for non-abrasiveness, freeze resistance, center load stress and durability to achieve the highest ratings in all tests. The oversized head (6" x 17") is the largest snow remover available. The high-impact plastic face plate is recessed into the foam to prevent contact with the aircraft. The aluminum telescoping handle has special cold resistant nylon threads and extends from 27" to 46". Also great for cars, trucks, SUV's, and awnings.
P/N 13-04055 ..... ---

TINDER HOT BOX SOLAR FIRE STARTER SURVIVAL KIT

The Tinder HOT Box Solar Fire Starter™ is a tinder storage box that can start a fire using solar energy, and the inside top cover is also a signal mirror! The Tinder HOT Box Solar Fire Starter™ is used to store fire starting tinder in the air/water tight tinder box portion of the unit that is sealed from the elements using an o-ring seal. This keeps the damp air/water out so your tinder always stays dry! The Tinder HOT Box Solar Fire Starter™ is also a solar powered fire starter. It is designed to function in any environment that will support life; the Tinder HOT Box Solar Fire Starter™ will literally function for as long as our Sun will shine and there is tinder to be found! As a matter of fact our Tinder Hot Box Solar Fire Starter will even function on other planets. 2.625 inches in diameter. .725 inches thick. weighs only 4 oz. can easily fit in your pocket. .....P/N 13-13091 ..... ---

ULTRAFIT™ EAR PLUGS WITH CARRYING CASE

• Patented, premolded, triple-flange design inserts easily. • No rolling or sizing needed to get a comfortable, protective fit. • Hypoallergenic polymer is washable and reusable. • Carrying case keeps plugs clean and accessible for re-use. • NRR 25dB. • ANSI S3.19-1974; CSA Z94.2; CSA Class AL..... P/N 13-02194 ..... ---

EZ FIT EAR PLUGS WITH CORD

The E-Z Fit line of EAR plugs was designed specifically for smaller ear canals, providing comfort and a secure fit. The self-adjusting foam and bell shape allow for easy insertion and help to keep the earplug from shifting or dislodging.
P/N 14-00051 ..... ---

E-A-R CLASSIC™ EAR PLUGS WITH POLY BAG

• Slow-recovery foam helps ensure comfort and minimize pressure • Bright yellow color provides a quick visual compliance check • Dermatologically safe foam is non-irritating, nonflammable, and moisture-resistant • NRR 29dB • ANSI S3.19-1974; CSA Class AL
P/N 9134 .....**---/pair**

ACR FIREFLY PRO SOLAS EMERGENCY DISTRESS STROBE LIGHT

The Firefly PRO emergency strobe light boasts a light output power management system that produces over 41 candela of light per strobe for up to 56 hours of use with AA lithium batteries. Using wide light emission LEDs, it cuts through the foulest conditions creating a super-bright flash visible for over 3.5 miles. Replace lithium batteries every 5 years or before battery manufacturer expiry date. Lithium batteries are recommended. When it comes to saving lives, anything less than the best is not an option. The Firefly PRO rescue strobe lights are the brightest and most feature-packed strobe lights on the market today. With three activation functions, toggle between the ultra-bright strobe or the SOS strobe to visually alert Search and Rescue of your location, then toggle to the Steady-On feature for close-up recovery operations. **Specifications**: • Size: 4.4 x 2.2 x 1.2 inches / 11.7 x 5.7 x 2.8 cm • Weight: 2.39 oz (68 g) (without batteries) • Operation: Manual ON/OFF switch • Waterproof: Factory tested to 33 feet. (10 m) Lamp: LED - cool white • Strobe Intensity: 41 Candela (Strobe) • Strobe Visibility: Over 3 miles • Strobe Flash Rate: 60 P/M +/- • Strobe Operation: 56 hours • Certification: SOLAS, USCG, MED, IMO LSA, CE .....P/N 11-14786 ..... ---

NEBO POPPY LANTERN AND SPOT LIGHT

Poppy is a combination 300 lumen C•O•B (Chip on Board) LED lantern and bright LED spot light. Poppy is the perfect light for indoor or outdoor use when versatility and powerful lighting are critical. With a rubberized impact-resistant body, Poppy is both rugged and soft to the touch. Poppy easily changes from spot light to lantern with just a slide of its top, revealing a full 360º C•O•B lantern. The handle is designed to easily adjust to conveniently serve both light modes. 4 Assorted Colors (Yellow, Dark Grey, Red, Green). Lantern color is shipped randomly.
P/N 13-20219 ..... ---

PERSONAL SIGNALING REFLECTOR

The "Automatic Personal Signaling Reflector" works continuously and automatically 24-7, day and night. You can work on your shelter, gather food/water or rest if injured. Rescuers will not walk by you if you're asleep or if you are unable to respond. The highly reflective silver-coated plastic works with Sunligh, Search Lights and Flashlights. It's always working.
P/N 13-08662 ..... ---

PRESSURE REGULATING EAR PLUGS FOR CHILDREN

EarPlanes are a patented pressure-regulating earplug inserted in the ear to help reduce discomfort often associated with air travel. They were developed by Cirrus Healthcare Products LLC in conjunction with the House Ear Institute in Los Angeles, and have been tested by US Navy aviators at the Miramar Naval Air Station in San Diego .....P/N 14-02837 ..... ---

PS

PILOT RELIEF TUBES

HORN
Black molded plastic horn fits into horizontal or vertical brackets. Measures 2-3/8" diameter and weighs 1.3 oz
P/N 13-04168 ..... ---

HORIZONTAL BRACKET
Black molded plastic bracket for underseat installation.
P/N 13-04169 ..... ---

VERTICAL BRACKET
Black molded plastic bracket for vertical installation.
P/N 13-04170 ..... ---

VENTURI
Black molded plastic venturi mounts on fuselage bottom and produces required suction to horn and outlet tubes for fluid ejection .....P/N 13-04171 ..... ---

HORN AND VALVE ASSEMBLY
Dimensions: Length: 8-31/64"; Top opening: 2-21/64"; Bottom opening: 3/16"; Weight: 4 ounces
P/N 13-04167 ..... ---

TEE AN8019-1
The material is RTP 152 black. 2-1/32" wide and 1" length.....P/N 13-04172 ..... ---

MOTION EAZE

Whether you want to prevent occasional motion sickness or relieve its symptoms, after the fact, Motion Eaze does the job. No matter, if it's sea sickness, car sickness, air sickness or any activity where motion sickness poses a problem, Motion Eaze really works. Contains no drugs, artificial additives, or stimulants of any kind. Only the freshest, highest quality, natural oils are used in its production. Motion Eaze is an oil that is applied to, and absorbed through, the skin, just behind the ear .....P/N 13-02732 ..... ---

SEABAND WRIST BAND

The Sea-Band has been clinically tested against nausea and vomiting in travel, pregnancy, anesthesia, chemotherapy and all conditions which induce nausea. The Sea-Band is a knitted elasticized wrist band, which operates by applying pressure on the Nei Kuan acupressure point on each wrist.
Adult Band.....P/N 9411 .....**---/pr.**
Child Band.....P/N 13-23252 .....**---/pr.**

SIC-SAC™

Use these for air sickness emergencies. Moisture proof and tear resistant even under extreme temperature changes. 10 sacks, individually packaged, each with attached tie band.
Pack of 10 .....P/N 9296 ..... ---
Pack of 100 .....P/N 9296-100 ..... ---

OZIUM AIR SANITIZER / FRESHENER

Eliminates smoke and offensive malodors caused by airborne bacteria. OZIUM is a product that sanitizes the air you breathe. It is clinically proven to eliminate odors, unlike current products that just mask odors. OZIUM combats airborne contaminants and eliminates odors with glycol-ized action…dispensing micron sized particles that linger in the air, attach to airborne bacteria and malodors to drastically reduce air pollution, purify and sanitize the air.....P/N 14-00061 ..... ---

THE BIFFY BAG

Personal disposable toilet system is a complete toilet that fits in the palm of your hand. Allows for a natural position. It has everything you need for a sanitary, discrete and comfortable experience.
3 pack.....P/N 13-12354 ..... ---
10 pack.....P/N 13-12355 ..... ---

WHITE AIR SICKNESS BAGS

White air sickness bag, block bottom. 25 Pack
23 x 11.5 x 6.5cm .....P/N 09-05850 ..... ---

LITTLE JOHN

Positively the least expensive accessory you can buy to extend your range. One authenticated case reports a Piper Malibu's range extended by 500 miles. Durable plastic, won't crack under any normal handling and temperature conditions. A tight screw-on cap makes it spill proof. Standard issue in hospitals for years.....P/N 9741.....

LADY J ADAPTER

The anatomically designed funnel snaps in and out of the little John. It can be used sitting or even standing. Clean white plastic.....P/N 9745 ..... ---

G FUNNEL ADAPTER

The G-Funnel is a portable urinal adapter which simply screws on to any plastic pop or water bottle that will be used as a container for those situations where a washroom facility is not available. Can be attached and used together with any sized plastic pop or water bottle that most people have on hand. A very useful relief device for those emergency situations
P/N 13-01974 ..... ---

TRAVEL JOHN

Absorbent pouch turns urine into gel instantly while destroying bacteria and odor. Specially designed collar works for men women and children; spill guard prevents back guard during use. Convenient, sanitary and compact, TravelJohn is easy to use while sitting or standing. Will not leak or spill, even if punctured. Holds 28 fl. oz. Includes antiseptic hand wipe. 3-pack.
P/N 13-00894 ..... ---

CONVENIENCE BAG

Disposable urine & vomit bag.• Wide mouth.• No spill, cleanup, or odors• One-hand use
P/N 13-02821 ..... ---

VOMEX EMESIS BAG

The traditional emesis bag market offers many variations into which one can vomit but none truly 'self-deploy' like the Vomex emesis bag or are as safe, sanitary or easy use and then dispose. VOMEX offers a product that makes a distasteful event easier to address. VOMEX emesis bags are simple and uniquely designed [US Patent #: D791,943 S]. With VOMEX you just POP, USE and DISPOSE!
P/N 13-25796 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

CO GUARDIAN CARBON MONOXIDE DETECTORS

AERO 353-101/201 - The AERO 353 has a built-in state-of-the art CO sensor that immediately reacts to the presence of CO. It was designed for pilots who want the unit to be small, so it takes up a minimum of panel space, and provides pilots a peace of mind. Detector will go into alarm mode within five minutes if CO level is greater than 50 PPM. The unit has dual light LED alarm; Amber less than 99 PPM and Red 100 PPM and above. Very simple installation (2-4 hours). For experimental aircraft only.

Aero Model 353 ..... P/N 13-16423 ..... ---
Aero Model 353 w/ Pressure Sensor ..... P/N 13-16424 ..... ---
CO2 Detecor for MVP and CGR ..... P/N 10-03188 ..... ---
353P-201 Remote Mount ..... P/N 13-06917 ..... ---

MODEL AERO 553 - Replaces the 2.25" clock and provides the latest CO protection that displays 30 to 999 ppm in the cockpit, as well as aircraft high and low voltage alarms, pressure density altitude readout for takeoff. Cabin altitude alerts to remind you to go on oxygen. CO level, cabin pressure and temperature to be displayed on the UPS AT CNX80

P/N 13-02569 ..... ---
Aero 553 OAT Probe
P/N 13-06165 ..... ---

MODEL AERO 451 - The CO Guardian 451-101 panel mounted Carbon Monoxide (CO) detector is designed especially for FAA certified Part 23 aircraft and Part 27 and 29 rotorcraft. A compact and lightweight unit meant to use as little panel space as possible, the 451-101 combines highly accurate CO detection for the cockpit in a small package. This CO detection unit is perfect for builders and pilots looking for basic protection from the dangers of carbon monoxide in their certified aircraft or helicopter.

Model 451-101 Panel Mount ..... P/N 13-21110 ..... ---
Model 451-201 Remote Mount ..... P/N 13-21111 ..... ---

MODEL AERO-452 - Input Power-14 / 28 V DC. Power Usage-Less than 1 Watt, 10 Watts with heater ON. Temp Range - -20° C to 55° C. Inspection - Each Unit 100 % tested. Humidity - 5% to 95% RH (non-condensating). Circuit Breaker-2 Amp. Design-Meets TSO-C48A. Weight-3.5 Oz. Sensor-Tested to 25,000 Ft. Calibration-100 and 500 PPM. Ouput-Dual Relay Output for, Panel Warning light / Annunciator. WARRANTY: The Aero 452 comes with a 1 year limited warranty. The warranty will be void if the unit has been opened or tampered with

P/N 13-07102 ..... ---

MODEL AERO 452-201-011 - Aero 452-201-011 is the first TSO certified remote-mountable Carbon Monoxide detector for use in General Aviation. This unit is a derivative of Aero 452 (Panel Mount). This unit comes standard with remote re-set switch and a remote light and can be installed behind a panel. This unit is pre-wired for connecting to an external annunciator warning lamp on your panel. Different light models can be purchased separately.

P/N 13-06918 ..... ---

AERO-551 - Is fast responding to CO threat detector that is designed to standard 2 1/4 hole. This unit is our most sophisticated CO detector that has an extremly fast response when CO is present. The 551 unit shows continous CO Level from 10PPM to 999 PPM.

P/N 13-06919 ..... ---

FLIGHT DATA SYSTEMS GD-40 CARBON MONOXIDE DETECTOR

Integrates with most EFIS Systems - Connect via RS232 or a Switched Input. Audio Voice Alerts. LED and Discrete Warning/Status Outputs - Two color LED included. Monitors Cabin Altitude - Aural Alerts to remind you to don your Oxygen Mask. Calibrated Using Precision Gas - Each unit is individually calibrated and tested before shipping. Built in Self Test Monitors Sensor Quality - Continuous self testing for reliability. Altitude and Temperature Compensated - Has an internal Altimeter and Thermometer. Remote Mounting Takes No Panel Space Dimensions: 4.7 X 3.1 X 1.0 inches. Weight:4.1 oz ..... P/N 11-09843 ..... ---

HONEYWELL BW SOLO WIRELESS BLUETOOTH CARBON MONOXIDE MONITOR

Honeywell BW™ Solo is a easy to service single-gas detector with BLE connectivity that provides real-time visibility into the status and safety of hazardous-area workers, helping companies respond faster, more knowingly and decisively to safety incidents.

Features: User-friendly operation • Easy-to-read display for multiple languages • Lightweight convenience • Ease of maintenance • Serviceability • The new 1-Series sensor for enhanced reliability • Connected Bluetooth Low Energy (BLE) capabilities

P/N 13-22414 ..... ---

SENSORCON AV8 INSPECTOR PORTABLE CARBON MONOXIDE MONITORS

In aviation, CO is commonly produced by equipment such as piston-driven aircraft, ground servicing equipment, and airside vehicles. Turbine engine aircraft exhaust and auxiliary power unit (APU) exhaust can also contribute to the accumulation of unsafe levels of CO. Being aware of the potential for carbon monoxide (CO) exposure and poisoning is crucial for eliminating safety hazards and preventing accidents. The AV8 Inspector's advanced sensor technology allows for accurate readings of carbon monoxide concentrations, before it becomes a problem. Pro version includes Alarm Adjust and 24 Hour TWA.

Standard Version ..... P/N 10-07327 ..... ---
Pro Version ..... P/N 10-07328 ..... ---

FORENSICS DETECTORS CAR / AIRCRAFT CARBON MONOXIDE DETECTOR

Our CO Aircraft and Vehicle CO Detector has undergone significant improvements in version 2.0 (FD-CAR002) compared to our previous version, FD-CAR001. The new version boasts brighter LED alarms, a soft rubber touch feel, a larger LCD display, and a key ring for battery replacement. With the FD-CAR002, low levels of CO detection are possible, preventing CO exposure from exhaust leaks or polluted air entering the vehicle. This feature ensures that you can have peace of mind and take preventative care to avoid headaches, nausea, and fatigue. The FORENSICS carbon monoxide detector was designed with "reliability and ease of use" in mind, making it ideal for pilots or aircraft and helicopters, police, truck drivers, vehicle owners, emergency vehicles, train drivers, UBER, fleet vehicles, personal vehicle operation, and personal protection for travel. ..... P/N 13-25608 ..... ---

PS

CO DETECTORS

AITHRE SHIELD USB 6.0 PORTABLE CO DETECTOR

The Shield USB 6.0 builds on the legacy of the Shield 4.0 using the same technology in a smaller form factor, based on years of improvements inspired by customer feedback. The 6.0 is the first of its kind - a small USB stick that plugs into any USB source for a extremely simple, portable, and functional solution for sensitive carbon monoxide detection in your aircraft

P/N 11-19337 ..... ---

AITHRE SHIELD EX 3.0 BEHIND - THE - PANEL CARBON MONOXIDE DETECTOR

Note: For Experimental Aircraft Only. The Aithre Shield EX 3.0 is the first behind-the-panel device that puts carbon monoxide readings AND tank PSI from your Aithre Altus portable oxygen tank gauge directly on your Dynon SkyView, MGL, Garmin G3X, and Advanced Flight Avionics. Detector Only

P/N 11-17497 ..... ---

GASALERT CLIP EXTREME CARBON MONOXIDE MONITOR TWO YEAR BATTERY LIFE

Simply press the start/test button and the GasAlertClip Extreme is ready to use, providing continuous, reliable protection. This carbon monoxide detector requires no calibration, sensor replacement, battery replacement or battery charging. The simplicity of the GasAlertClip Extreme combined with minimal training requirements and negligible maintenance costs make the GasAlertClip Extreme one of the most cost-effective gas detection solutions for facility workers and onsite contractors. Standard Package Contents: Detector complete with specified sensor, stainless steel alligator clip and concussion-proof housing, Test cap and hose, Manual, Multi-language CD manual.

Gas Alert Clip Extreme II CO (2 Years)

P/N 13-09667..... ---

STANDARD CARBON MONOXIDE DETECTOR

Toxic, odorless, tasteless gas produced by incomplete combustion or gasoline, kerosene, natural gas, butane, fuel oil, wood, coal or anywhere fossil fuels are burned. Dangerous levels of CO come from internal combustion engines such as cars, airplanes, and lawn mowers or from any poorly vented or improperly adjusted fuel burning appliance ...P/N 09-35600 ..... ---

ASA CARBON MONOXIDE DETECTOR

Carbon Monoxide (CO) is a toxic, odorless, and tasteless gas produced by the incomplete combustion of gasoline, kerosene, natural gas, butane, propane, fuel oil, wood, coal, and other fossil fuels. Dangerous levels of CO can be produced by internal combustion engines or from any poorly vented or improperly adjusted fuel-burning appliance. Exposure to CO may cause sickness, headaches, or even death .....P/N 13-05755 ..... ---

RADIANT TECHNOLOGY CO PRO™ CARBON MONOXIDE MONITOR + DIGITAL G-METER

CO Pro™ is a new generation product in Radiant Technology's robust line of avionic and sensor tech instruments. CO Pro™ is a Carbon Monoxide detector and G-Meter all in one. Designed for pilots and aviation enthusiasts, the portable detector features two primary interfaces–one with continuous CO graphing capability and the other showing a G Meter (which also shows CO levels in background). The unit has an audible alarm and is battery powered up to five hours on a single charge (rechargeable with USB).

CO Pro™updates Radiant's carbon monoxide safety product line with brilliant new features. The ability to see CO levels trend over time provides better information than competitive, static display monitors. This increases pilot and passenger comfort and also helps to determine what might have happened. For instance, a change in engine noise associated with an observable graph rise in CO levels might be associated with a new crack in an exhaust system.....P/N 10-07470 ..... ---

RADIANT CO-PRO / DIGITAL G-METER GEN2 PANEL MOUNT HOLSTER

The Panel Mount Holster enables the CO Pro™ to be mounted; the holster fits perfectly in 3 1/8″ cutout as seen below. It can also be mounted to any flat surface using the corner holes utilizing rivets or screws or using adhesive tape

P/N 10-07620 .....

DIGITAL CO2 DETECTOR

The extremely affordable DCO 1001 has a measuring range of 0-1000 ppm and comes complete with a soft case, a wrist strap, 3 "AAA" batteries and an instruction manual.

Features: • Adjustable co warning level • LCD dual digital display • Bright backlight • self test • Low battery indication • °F/°C selectable • Auto power off • Auto zero • CO range: 0~999ppm • Resolution: 1ppm • Battery life is 250 hours when the backlight is off and 35 hours with the backlight on

P/N 12-01895 ..... ---

GEIGER PLUS PERSONAL CARBON MONOXIDE MONITOR

Geiger PLUS is a key fob-sized unit that provides real time aural alarm when carbon monoxide levels are dangerously high. The unit provides a very loud distinctive alarm at ~41 PPM and an even more annoying alarm at 100 PPM. In contrast to competitive products, GEIGER PLUS is much smaller, more responsive and rechargeable. It is designed to run off of an internal USB rechargeable battery

P/N 10-07477 ..... ---

SPARROW MODEL W500 CO CARBON MONOXIDE & AIR MONITOR

SPARROW is a health and safety device that measures and alarms to high and low levels of carbon monoxide (CO), along with temperature, pressure. Displays and tracks exposure over time, giving you information on health effects and even notifying others in the event of an emergency. SPARROW App will also store and map the location of unhealthy air events so you can plan healthier routes in the future. While you can customize your alerts and notifications to your needs, the SPARROW and its app will always alert you to hazardous life threatening situations with audible and visual alarms. P/N 13-23462 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PROTECTIVE GEAR FOR PETS

MUTT MUFFS

The inner foam that we use is the exact same ester resin foam that is used in many high end commercial head sets designed for humans. Based on the materials used, the estimated decibel reduction is between 21 and 24, assuming proper fit and a good seal against your pup's head.

Specifications:

- Over-the-Head Hearing Protector for animals.
- Specially Designed Wide Foam Filled Ear Seals for Maximum Comfort.
- Engineered specifically to properly meet the contour of a dog's head
- Comfortable and Lightweight
- Adjustable Straps for Optimum Fit.
- Inner sound-deadening foam is the same density found in pilot's high-end headsets
- Made entirely in the United States of America
- Patent Pending

Muff Size	Typical Dog Weight	Head Circum-ference	Maximum Inner Shell		Weight	Part No.	Price
			Width	Height			
X-Small	5-10 lbs	7-9"	1.5"	1.625"	1.5 oz	13-05536	---
Small	10-20 lbs	9-13"	1.75"	1.75"	1.7 oz	13-05537	---
Medium	20-50 lbs	13-18"	2.5"	2.5"	3.0 oz	13-05538	---
Large	50-95 lbs	18-23"	3.25"	3.25"	4.0 oz	13-05539	---
X-Large	95+ lbs	23+	4"	4"	5.8 oz.	13-05540	---

SIZE CHART - The overall circumference measurement of your dog's noggin at the largest point is the best determination of size, because if you choose a size too large, the muffs won't seal well against his head, and you lose all the sound-reducing properties you were shooting for. Your dog's weight is also a good indicator of which size to choose.

CUSTOM COLORS - Ever-classic "Mutt Muff® Black". But now, Mutt Muffs® are available in three additional colors! Red! Blue! and Pink!

P/N 13-05541 ..... ---

CO-PILOT - TRIANGLE BANDANA FOR DOGS

The proper uniform for the distinguished canine aviator. Sewn on all three sides. Finished Sizes: Large: 21.5" x 21.5" x 29", Small: 14" x 14" x 20"

Large.....P/N 13-05547 ..... ---
Small.....P/N 13-05548 ..... ---

MUTT MUFFS COLLAPSIBLE SILICONE BOWL FOR DOGS

Next time your pooch is pantin' for a drink, pull out these convenient, collapsible silicone bowls. Waterproof, dishwasher safe, and made of a 100% Food Grade Silicone. The bowl measure 7" in diameters, and has a 5 cup capacity.

Blue.....P/N 13-23676 ..... ---
Red.....P/N 13-23675 ..... ---
Pink.....P/N 13-23677 ..... ---

DOG IS MY CO-PILOT - BUMPERSTICKER

"Dog Is My Co-Pilot" is the trademarked motto of Bark magazine - accept no substitute. As seen on dog-friendly cars from coast to coast!

P/N 13-05545 ..... ---

BARK BAGS

If you take passengers, sooner or later, you're going to need one. 9-3/4" x 4-1/4" to hold alot of chunks. Sold in a package of 3. There could be sympathy heaves.

P/N 13-05543 ..... ---

4 PAWS K-9 EAR MUFFS

4 Paws Aviation has come out with hearing protection for your pet. Average of 15 dBHL greater sound reduction than what's on the market today. These Ear Muffs hearing protection is made of nylon, aircraft approved sound deadening foam, non-toxic "gel" cups, webbing, and a safety "break a way" clip.

They can be used with the only oxygen hood delivery system for your pet also offered by 4 Paws Aviation.

Small (5 - 25 pounds 7" & 13" head size)....P/N 13-08288 ..... ---
Medium (20 - 85 pounds 9" & 19" head size)..P/N 13-08289 ..... ---
Large (Over 85 Pounds & 19" head size)....P/N 13-12807 ..... ---

4 PAWS K-9 OXYGEN HOODS

Fight the effects of Hypoxia on your four legged family members by using the only oxygen delivery hood for animals when flying at high altitudes. Keep your pets safe and healthy when flying high.

Hood comes with 7-foot long oxygen supply tubing with a common push on female end. Attaches to a stand-alone bottle or in place oxygen system.

Oxygen hoods are available in five sizes, measurements' include the collar (around the neck) and the length from the nap of the neck to the end of the nose, then add two more inches for clearance.

Size	Collar Size	Hood Depth	Part No.	Price
Small	7.5" To 9.5"	8.5"	13-08290	---
Medium	9.5" To 13.25"	10"	13-08291	---
Large	13.25" To 15.75"	12"	13-08292	---
X-Large	15.75" To 20"	14"	13-08293	---
XX-Large	20" To Over	17"	13-08294	---

AEROX PET MASK

Take your pet with you at altitude thanks to AEROX and their line of Canine 02 Mask supplemental oxygen system certified to 25,000 feet. The Aerox® Canine 02 supplemental oxygen system is currently available in 5 sizes:

Small - (Poodles, Shelties, Yorkies, Cavalier, Bichon Frise)
Medium - (Beagles, Keeshounds, Jack Russels, Standard Poodle)
Large - (Cockers Spaniels, Springers, Beagles, Boston Terriers)
X-Large - (Huskies, Labradors, Retrievers, Dobermans)
Giant - (Great Danes, Newfies, St Bernards, 90-160 LBS)

The muzzle incorporates a medium concentration continuous flow oxygen mask and frontal mesh area for best ventilation and oxygen delivery to your pets mouth and nose.

Size	Part No.	Price
Small	13-07460	---
Medium	13-07461	---
Large	13-07462	---
X-Large	13-07463	---
Giant	13-07464	---

PS

WEATHER STATIONS – WINDMETERS

XPLORER 2 WINDMETER BY SKYWATCH

Dimension: 3.5 x 1.5 x 0.75 in, 2 oz. (41 x 93 x 17 mm, 50 g). One button operation. EL Backlight. Completely sealed; internal sensors. Weatherproof (can be submerged 6 feet). Replaceable Lithium battery (included and installed). Stainless steel back Auto-off after one minute (can be disabled to remain on). Included lanyard. One year warranty. Designed in Switzerland.....P/N 13-12440 ..... ---

XPLORER 3 WINDMETER BY SKYWATCH

Dimension: 3.5 x 1.5 x 0.75 in, 2 oz. (41 x 93 x 17 mm, 50 g). One button operation. EL Backlight. Completely sealed; internal sensors. Weatherproof (can be submerged 6 feet). Replaceable Lithium battery (included and installed). Stainless steel back. Auto-off after one minute (can be disabled to remain on). Included lanyard. One year warranty. Designed in Switzerland.....P/N 13-12441 ..... ---

AVIATION WEATHERVANES

The weathervanes are made of 14 gauge steel and come with a one year warranty on the finish and a lifetime warranty on all workmanship. Dimension: 17-3/4" x 6-1/2" Weathervanes are shipped standard with a 60" garden stake. Weathervanes may also be ordered with a different stand as a special order only. No additional charge will apply. The different stands that are available are: 15" Roof Mount, 15" Deck Mount, or a 15" Post Mount.

Description	Part No.	Price
Lo Wing Garden Weathervane	13-07217	---
Cessna Garden Weathervane	13-07215	---
Helicopter Garden Weathervane	13-07220	---
Hi Wing Garden Weathervane	13-07216	---
Cessna Roof Weathervane	13-08142	---
Cessna Deck Weathervane	13-08143	---
P-51 Roof Weathervane	13-11256	---
P-51 Garden Weathervane	13-11305	---
B-17 Garden Weathervane	13-07213	---
Bi Plane Garden Weathervane	13-07214	---
Tri Motor Garden Weathervane	13-07218	---
B-17 Roof Weathervane	13-08078	---
Bi Plane Roof Weathervane	13-08139	---
Bi Plane Deck Weathervane	13-08140	---
Bi Plane Post Weathervane	13-08141	---

SEE OUR WEBSITE FOR A COMPLETE LIST.

WIRELESS VANTAGE PRO2 WEATHER STATION

Uses frequency hopping spread spectrum radio technology to transmit data wirelessly up to 1000' (300 m). Console/receiver, integrated sensor suite, and mounting hardware. Integrated sensor suite includes rain collector, temperature and humidity sensors, anemometer, 40' (12 m) anemometer cable, and solar panel. Sensor suite is solar powered. AC-power adapter included for console, or use with three C batteries (not included). Wireless range is up to 1000' outdoors, line of sight. Typical range through walls 200' to 400'. Add wireless repeaters for distances up to 1.7 miles. Not available in EU (Europe).

Vantage Pro2 Plus 2/UV & Solar Radiation..P/N 13-05586 ..... ---
Mounting Tripod .....P/N 13-04569 ..... ---

DAVIS INSTRUMENTS ANEMOMETER

Replacement Anemometer for Vantage Pro2 & Pro
P/N 13-13073 ..... ---

SKYWATCH WINDOO 1 OMNI DIRECTIONAL WEATHER STATION

SKYWATCH® Windoo 1 is an anemometer-thermometer for your smartphone. It measures and indicates the following information. Windspeed. Temperature – Wind chill factor. Measured data can be stored and shared on facebook, twitter or windoo.ch Materials: Housing: anodised aluminium, Protective case: carbon. Wind: Units: km/h, mph, m/s, fps and knots, Resolution: 0.1 unit, Accuracy: ± 2%, Measuring range: from 0 to 150 km/h. Temperature: Units: °C and °F, Resolution: 0.1 unit, Accuracy: ± 0.3 °C, Measuring range: from -25 °C to +60 °C.
P/N 13-16357 ..... ---

SKYWATCH WINDOO 2 OMNI DIRECTIONAL WEATHER STATION

SKYWATCH® Windoo 2 is a measuring instrument for your smartphone. It indicates the following information. Windspeed. Temperature – Wind chill factor. Humidity – Dew point. Measured data can be stored and shared on facebook, twitter or windoo.ch. Materials: Housing: anodised aluminium, Protective case: carbon. Wind: Units: km/h, mph, m/s, fps and knots, Resolution: 0.1 unit, Accuracy: ± 2%, Measuring range: from 0 to 150 km/h. Temperature: Units: °C and °F, Resolution: 0.1 unit, Accuracy: ± 0.3 °C, Measuring range: from -25 °C to +60 °C. Humidity: Units: %RH, Resolution: 0.1 unit, Accuracy: ± 4.5 %RH, Measuring range: from 0 to 100 %RH..... P/N 13-16358 ..... ---

SKYWATCH WINDOO 3 OMNI DIRECTIONAL WEATHER STATION

SKYWATCH® Windoo 3 is a weather station for your smartphone. It measures and indicates the following information. Windspeed. Temperature – Wind chill factor. Humidity – Dew point. Pressure. Measured data can be stored and shared on facebook, twitter or windoo.ch. Materials: Housing: anodised aluminium, Protective case: carbon. Wind: Units: km/h, mph, m/s, fps and knots, Resolution: 0.1 unit, Accuracy: ± 2%, Measuring range: from 0 to 150 km/h. Temperature: Units: °C and °F, Resolution: 0.1 unit, Accuracy: ± 0.3 °C, Measuring range: from -25 °C to +60 °C. Humidity: Units: %RH, Resolution: 0.1 unit, Accuracy: ± 4.5 %RH, Measuring range: from 0 to 100 %RH. Pressure: Units: hPa, mbar, inHg, Resolution: 0.1 unit, Accuracy: ± 0.2 hPa, Measuring range: from 300 to 1100 hPa ....P/N 13-16359 ..... ---

PS

COCKPIT COOLERS

THE ICEBOX PORTABLE AIR CONDITIONER

The IceBox is a portable air conditioning system, for your airplane cabin, car, or boat.
For Pilots: No more flying in a scorching hot cabin! Turn ON the IceBox during preflight and cool your cabin down before engine start. Jump in and experience a comfortable taxi and departure to a cooler altitude. Enjoy hours of IceBox cooling power and control your comfort with the wireless remote Pump and Fan controls. TIP: During cruise flight, Turn OFF the water pump at altitude to sustain the longest A/C possible. In Cruise Flight Mode -- Keep the fan running to push cooler air through the cabin
For General Use: Use the IceBox portable air conditioner in any environment, with or without available electrical power. Cool down the car or boat with the IceBox, and keep your engines off in the process.
Specifications:
• Electrical: 12V or 24V. Max Power Consumption 4.5 Amps
• Dimensions: 10"x13"x18"
• Weight Empty: 10lbs

Voltage	Description	Part No.	Price
12V	Wireless Unit	08-16237	---
12V	Full System	08-16242	---
24V	Wireless Unit	08-16238	---
24V	Full System	08-16243	---

ICEBOX PILOT CABLE

Pilot's Cable to switch between ship's power and Aux Battery (useful for preflight, fuel stops and post-flight draining of the IceBox).
P/N 08-16241 ..... ---

B-KOOL G5 PORTABLE COOLING SYSTEM

B-Kool™, named 2015 Best Portable Cooler by Aviation Consumer, provides an affordable solution to your portable cooling needs. B-Kool™ is not an evaporative cooler and therefore works well in high humidity areas. Confirm your voltage needs prior to ordering.
Whether used in airplanes, campers, antique cars, or boats, B-Kool™ Portable Coolers readily fit most small spaces. Compact and weighing less than 10 pounds when empty, B-Kool™ Portable Coolers are easy to carry and stow.
12 Volt Without Wireless Remote.....P/N 13-22450 ..... ---
12 Volt With Wireless Remote.....P/N 13-22452 ..... ---
24 Volt Without Wireless Remote.....P/N 13-22451 ..... ---
24 Volt With Wireless Remote.....P/N 13-22453 ..... ---

AIRCRAFT CLIMATE IMPACT - PORTABLE AIRCRAFT AIR CONDITIONER

Aircraft Climate Impact is a next-generation portable aircraft air conditioner designed by pilots for pilots. It packs a serious punch of cooling in a compact package.
This portable aircraft air conditioner works by circulating ice water through a high-efficiency heat exchanger, and is enclosed in a vacuum-sealed YETI cooler.
Air is drawn over the heat exchanger, cooled, and expelled via a 5-inch Italian-made fan used by CAT and other industrial companies for intense air conditioning performance.
• Manufactured in St. Louis, Missouri.
• Durable, vacuum-sealed YETI enclosure.
• German-made water pump.
• Ideal size for most single engine piston aircraft.
• Fits great in Cessna 172/182/210, Bonanza (V-Tail and Conventional), Mooney, Piper Cherokee, Cirrus, and more.
• Heat exchanger removes humidity from air.
Charcoal.....P/N 13-23996 ..... ---
White.....P/N 13-23997 ..... ---

AIRCRAFT CLIMATE - DUAL PORTABLE AIRCRAFT AIR CONDITIONER

Aircraft Climate Dual- Remote Accessory (13-24003) is recommended at same time of purchase of the Dual Portable Aircraft Air Conditioner
Aircraft Climate Dual is a portable aircraft air conditioner designed to combat the most formidable aviation environments. It is ideal for pilots who desire unparalleled cooling capabilities and comfort.
This portable aircraft air conditioner works by circulating ice water through twin high-efficiency heat exchangers, and is enclosed in a vacuum-sealed YETI cooler.
Air is drawn over the heat exchangers, cooled, and expelled via two Italian-made fans used by CAT and other industrial companies for intense air conditioning performance.
The vacuum-sealed YETI cooler ensures Aircraft Climate Dual operates at high thermal efficiency (maximizing cooling endurance) while also enabling pilots to leave ice in the unit for 24+ hours when not in use.
Aircraft Climate Dual is proudly in service by the USAF.• Manufactured in St. Louis, Missouri.
• Durable, vacuum-sealed YETI enclosure.
• German-made water pump.
• Heat exchangers remove humidity from air.
• Ideal for large single-engine piston aircraft, twins, and turboprops
Specifications:
• Electrical: 12V. Max current draw 8A.
• Dimensions: Cooler (H 15.75 x L 21.5 x W 16.2 inches), Spouts (4-inch diameter, height adjustable)
• Empty Weight: 30lbs (holds up to 30lbs of ice)
• Warranty: 1 Year
• Optional battery lasts 3.5 hours on "high" setting.
White..... P/N 13-23998.....---
Navy..... P/N 13-23999.....---

PS

COOLERS

YETI® TUNDRA® COOLERS

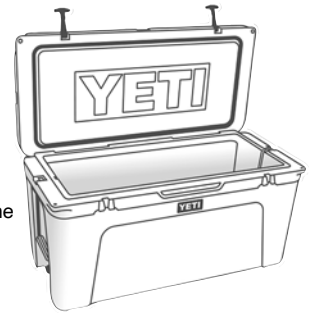
YETI makes the world's best coolers. Extreme design and construction assure you a lifetime of extreme performance. No other cooler is as durable. No other cooler keeps ice longer. No other cooler compares.

TUNDRA WARRANTY

FATWALL™ DESIGN
Extra-thick walls hold up to two inches of insulation
for unmatched ice retention.

ROTOMOLDED CONSTRUCTION
Makes it armored to the core and virtually indestructible.

PERMAFROST™ INSULATION
Pressure-injected commercial grade polyurethane foam in the walls and lid makes sure your ice stays ice.



Cooler	Part No.	Price	Weight	Exterior		Interior	
				Height	Top	Height	Top
Tundra 35							
White	13-19106	---	20 lbs	15-1/2"	L 21" W 16"	10"	L 15" W 10-1/2"
Tan	13-19107	---					
Seafoam	13-22129	---					
Tundra 45							
White	13-19109	---	23 lbs	15-1/2 "	L 25-1/2" W 16"	9-7/8 "	L 19 -1/2" W 10-1/2"
Tan	13-19111	---					
Tundra 65							
White	13-19117	---	29 lbs	16"	L 30-1/2" W 17-1/2"	10-1/8 "	L 24-1/2" W 12"
Tan	13-19118	---					
Seafoam	13-22131	---					
Tundra 75							
White	13-19120	---	34 lbs	18 "	L 33-1/4" W 18"	12"	L 27-1/4" W 12-1/2"
Tan	13-19121	---					
Tundra 105							
White	13-19122	---	36 lbs	20"	L 30-1/2" W 19-1/2"	14-1/4"	L 24-1/2" W 14"
Tan	13-19123	---					
Tundra 110							
White	13-19124	---	39 lbs	20"	L 37" W 18 "	13-3/4"	L 31" W 12-1/2"
Tundra 125							
White	13-19125	---	48 lbs	20"	L 40" W 19-1/2"	14-1/4"	L 34" W 14"
Tundra 160							
White	13-19126	---	54 lbs	21-1/2"	L 45" W 19-1/2"	15-1/2"	L 39" W 14"
Tundra 210							
White	13-19127	---	62 lbs	24"	L 39-3/8" W 25-1/2"	19-3/4"	L 33-3/8" W 19-5/8"
Tundra 250							
White	13-19128	---	70 lbs	21-1/4"	L 55" W 22-5/8"	15-1/2"	L 49" W 17"
Tundra 350							
White	13-19129	---	89 lbs	23-1/4"	L 63-1/4" W 24-1/2"	18-3/8"	L 57-1/4" W 18-1/2"

YETI® HOPPER™ FLIP SOFT COOLERS

Meet the leakproof, tough-as-nails, carry-the-day soft cooler. Its wide-mouth opening makes for easy loading and access to your food and drinks. Its compact, cubed body means ultimate portability — go off road, onto the water, and back again with this personal cooler. And its extreme insulation means your ice is staying ice.

DRYHIDE™ SHELL
The Hopper's high-density fabric is waterproof and resistant to mildew, punctures, and UV rays. The liner is made from an FDA-approved food-grade material.

COLDCELL™ INSULATION
Closed-cell rubber foam offers far superior cold-holding to ordinary soft coolers.

HYDROLOK™ ZIPPER
The toughest, highest-performing waterproof and leakproof cooler zipper in the world.

Hopper Soft Cooler	Charcoal	Price	Navy	Price	Weight	Outside	Inside
M20 Backpack	13-22069	---	13-24224	---	5.6	15.3"x 9.9"x 18.1"	---
M30	13-24219	---	13-24220	---	7 lbs.	25.0" x 12.0 x 17.5"	22.0" x 10.0" x 16.0"
FLIP 8	13-22252	---	13-24223	---	2.8 lbs.	8" x 10-1/2" x 11-1/2"	6-1/4" x 7-1/2" x 9-3/4"
FLIP 12	13-22068	---	13-23246	---	3.1 lbs.	10" x 11-1/2" x 12-5/8"	8" x 9" x 11"
FLIP 18	13-22253	---	13-23993	---	5.1 lbs.	10-3/4" x 13" x 16-1/4"	8-1/2" x 10-1/4" x 14-1/4"

VISIT WWW.AIRCRAFTSPRUCE.COM FOR MORE YETI PRODUCTS!

PS

YETI® TANK®

The best times in life seem to involve good friends, family, and a healthy supply of ice-cold drinks nearby. So we designed the YETI TANK to be the perfect centrepiece of all the fun. This nearly indestructible party machine is packed with our patented cold-holding insulation to keep your next backyard barbecue, tailgate, or beach side bonfire wilder, longer. ROTOMOLDED CONSTRUCTION - Makes it armored to the core and virtually indestructible. NO SWEAT™ DESIGN - Keeps it dry on the outside.

Cooler	Part No.	Price	Weight	Exterior		Interior	
				Height	Top	Height	Top
TANK 45							
White	13-19133	---	13 lbs	16-1/4"	L 21" W 21"	13 7/8	L 17-1/8" W 17 -1/8"
DesertTan	13-19134	---					
Seafoam	13-22133	---					
TANK 85							
White	13-19137	---	20 lbs	19-1/2"	L 25-1/2" W 25-1/2"	16	L 20-1/2" W 20-1/2"
DesertTan	13-19138	---					
Seafoam	13-22134	---					

YETI® RAMBLER™ DRINKWARES

The Rambler series of drinkware is the first line of YETIs you can fit in your hand. And, yeah, they over-engineered them to be virtually indestructible and keep your drink as cold (or hot) as science allows. With 18/8 stainless steel construction, double-wall vacuum insulation, and No Sweat™ Design, they're perfect for the deer lease, cleaning table, or just the times in between your outdoor adventures. 18/8 STAINLESS STEEL - Made with kitchen-grade stainless steel, so they're puncture- and rust-resistant. DOUBLE-WALL VACUUM INSULATION - Keeps cold drinks cold and hot drinks hot until the last sip. NO SWEAT™ DESIGN - Keeps fingers dry and unfrostbitten.

Rambler	Size	Outside	Stainless	White	Seafoam	Black	Navy	Sandstone Pink	Nordic Purple	Nordic Blue	Price
Lowball	10 oz.	4 1/8" x 3 1/2"	--	--	13-19828	13-19830	13-21529	--	--	--	---
Bottle with Hotshot Caps	12 oz.	7 1/8" x 3"	--	13-22249	13-21054	13-21056	13-22126	--	--	--	---
Mugs	14 oz.	3 3/4" x 5"	--	13-21235	13-21058	13-21060	--	--	--	--	---
Tumbler	20 oz.	6 7/8" x 3 1/2"	--	13-21236	13-20682	13-20684	13-21531		13-24301	--	---
Bottle with chug cap	26 oz.	10 1/4" x 3-3/8"	--	13-22789	13-20992	13-20990	13-21534	--	--	--	---
Tumbler	30 oz.	7 7/8" x 4"	--	13-21239	13-20687	13-20689	--	13-23842	--	13-24299	---
Bottle	18 oz.	9 1/2" x 3"	13-19157	--	13-19832	13-19834	--	--	--	--	---
Bottle	36 oz.	10 3/4" x 3 3/4"	13-19158	13-21246	13-19836	13-19838	13-21535	--		--	---
Colster	12 oz.	4 7/8" x 3-1/8"	13-19167	13-21247	13-19824	13-19826	13-21528	--	--	--	---
Colster Slim	12 oz.	6-1/8" x 3-3/4"	13-22800	13-23159	--	13-23157	13-23158	--		--	---
Colster	16 oz.	6" x 3"	13-23160	13-23163	13-23162	13-22762	13-23161	--	--	--	---

Rambler	Color	Outside	Part No.	Price
One Gallon Jug	Black	15" × 6 3/8"	13-24249	---
	Navy		13-24250	---

Rambler	Size	Outside	White	Seafoam	Navy	Black	Price
Wine Tumbler	10 oz.	4-1/2" X 3-1/2"	13-22135	13-22137	13-22246	--	---
Wine Tumbler (2 pack)	10 oz.	4-1/2" X 3-1/2"	--	13-21787	--	13-22138	---

VISIT WWW.AIRCRAFTSPRUCE.COM FOR MORE YETI PRODUCTS!

PARAGON PRO VIKING COOLER

Paragon's Viking Cooler was designed to be your ultimate companion for beating the heat! The Viking Cooler is built to be durable and efficient with its 12-volt pump providing constant circulation of cold water through Paragon cooling garments. The side exit Guardian bulkhead connectors are Paragon's emergency release option allowing an easy disconnect when a quick pull motion is applied to the connected hose set or garment. The Viking Cooler is available in a 10L, 12L or 18L option and works seamlessly with most cool suit brands.

12L 12V .....P/N 13-25631 .....---
18L 12V .....P/N 13-25630 .....---

PARAGON PRO ARCTIC WOLF BACKPACK

Paragon's Arctic Wolf Cooler Bag is one of the most versatile cooling bags on the market. The Arctic Wolf Cooler Bag contains an interior heavy-duty bladder that houses a 12-volt pump and enough space for ample ice and water. The front exit Guardian bulkhead connectors are Paragon's emergency release option allowing an easy disconnect when a quick pull motion is applied to the connected hose set or garment. The Arctic Wolf Cooler Bag is available in a 6L or 10L option and works seamlessly with most cool suit brands. ...P/N 13-25715 .....---

PARAGON PRO ARCTIC WOLF BAG

Paragon's Viking Cooler was designed to be your ultimate companion for beating the heat! The Viking Cooler is built to be durable and efficient with its 12-volt pump providing constant circulation of cold water through Paragon cooling garments. The side exit Guardian bulkhead connectors are Paragon's emergency release option allowing an easy disconnect when a quick pull motion is applied to the connected hose set or garment. The Viking Cooler is available in a 10L, 12L or 18L option and works seamlessly with most cool suit brands.

6L.....P/N 13-25633 .....---
10L.....P/N 13-25632 .....---

PS

FLASHLIGHTS

MAGLITE LED FLASHLIGHTS

MAG-LED™ Technology known for their obsession with precision engineering, craftsmanship and commitment to perfection, was not satisfied with the performance of a "regular" LED as a usable light source. They set their sights on producing a light source that would not only incorporate longer battery life, but would also have the kind of durability, reliability, and performance Maglite® flashlights are known for. With an emphasis on uncompromising performance, MAG-LED™ Technology is the result of that quest.

2-cell AA - Black.....P/N 13-04722 ..... ---
2-cell AA, w/Holster - Grey Pewter .....P/N 13-04917 ..... ---
2 Cell D hang pack- Grey Pewter .....P/N 13-04880 ..... ---
3 Cell D hang pack- Grey Pewter.....P/N 13-04881 ..... ---

ACCESSORIES PACK - Includes: Pocket clip, lanyard wrist strap with key ring, anti-roll device, red, clear, and blue lenses..... P/N 13-04727 ..... ---

MAGLITE XL 200 LED FLASHLIGHTS

This XL™ SERIES of COMPACT FLASHLIGHTS offers FIVE BASIC, EASY-TO-USE FUNCTIONS plus Advanced Features and the STUNNING BRIGHTNESS of a Next-Generation LED. By the simple "QuickClick" method introduced with our popular Maglite® XL50™ flashlight, the XL200™ lets the user select the desired function. Motion-controlled variable power level and strobe rate. Easy to use. Powerful Projecting LED Beam. Pushbutton tailcap switch. Compact, Pocket Size Design.

Color	Part No.	Price
Black	13-16539	---
Red	13-16540	---
Gray	13-16541	---
Blue	13-16542	---

NEBO TORCHY RECHARGEABLE FLASHLIGHT

The rechargeable TORCHY, inch for inch, is the brightest flashlight in the world. Smart Power Control allows the TORCHY to seamlessly transition through the 4 light modes and 1,000 lumen TURBO mode. The powerful magnetic base doubles as the magnetic charging port for the included USB MagCable, and the removable clip provides easy carry or hands-free use as a cap light.....P/N 13-22482 .....---

MAGLITE FLASHLIGHTS

Mini Maglight AA - Black.....P/N 13-04913..... ---
Maglight 2 Cell D - Black.....P/N 13-04915..... .---
Replacement Bulb for 2D Cell .....P/N 13-13594..... ---

MAGLITE XL50 LED FLASHLIGHT BLACK

Features: Compact, pocket sized design (every day carry). Adjustable LED Beam (Spot-to-Flood). Durable, rugged, machined aluminum case Anodized for corrosion resistance and durability. Intelligent energy source management - continuously monitors the balance between high brightness and efficient power usage allowing for prolonged battery life. Powered by three (3) AAA alkaline batteries (included). Individually serial numbered

Color	Part No.	Price
Black	13-08982	---
Red	13-08989	---
Gray	13-08990	---
Silver	13-08991	---
Blue	13-08992	---

MAGLITE D CELL ACCESSORY PACK

Mounting Brackets (Fit D-Cell Only) Mount your Mag-Lite® flashlight on a wall, in a vehicle, boat, airplane or home. Lens Holder / Anti-Roll Device This item both retains a colored lens and helps prevent the flashlight from rolling off irregular surfaces. **Note**: The Lens Holder and Lenses may also be used on "C" cell Mag-Lite® flashlights.

P/N 13-04886 ..... ---

VANTAGE VUE WIRELESS WEATHER STATION

Includes: • Integrated Sensor Suite: Wireless, Rain Collector, Anemometer, Weather Proof Cover, Radiation Shield, Wind Direction, Solar Panel, Bubble Level. • Console: Time & Date, Moon Phase, Forecast Icons, Temperature Icons, Temperature & Humidity, Retansmits, Barometer, Variable Display Options, Rain Totals, "Change in Weather" Feature, Weather Center, User-Friendly Keypad, Graphs, "This Time Yesterday" Feature, Alarms, Wind Speed • Mounting hardware (mounting pole sold separately)

Mount Pole Kit .....P/N 13-11576 ..... ---
Mounting Tripod.....P/N 13-04569 ..... ---

See www.aircraft spruce for additional options.

NEBO LARRY 500 FLEX WORK LIGHT

Whether you're working under the hood, on a construction site, or checking off your DIY to-do list, achieving bright, balanced illumination is crucial for getting the job done right. For years, professionals and enthusiasts have relied on NEBO's Larry Series work lights to handle any task. The all-new LARRY® 500 FLEX now joins this trusted product line, offering a compact design comparable to a pen light that fits easily into your pocket. Despite its size, it features a powerful 500-lumen C•O•B LED flood light capable of serving as both a white work light and a red task light, ensuring balanced area illumination for your workspace. Adding to its versatility, it incorporates NEBO's Flex-Power™ technology, allowing it to operate on the included rechargeable battery or two AAA alkaline batteries, ensuring continuous functionality in any situation. Its durable aluminum construction, impact-resistant design, rubber grip, and IPX7 waterproof rating guarantee reliability in both indoor and outdoor environments. The steel clip is ideal for carrying it on your belt or in a pocket and the magnetic base allows you to attach it to any metal surface for hands-free lighting. Equipped with C•O•B LED technology and 6 light modes, the Larry 500 Flex readily adapts to various situations while being bright and energy-efficient.....P/N 13-25783 ..... ---

BIG LARRY™ 2 POWER WORK LIGHT - STORM GRAY

The BIG Larry 2 outputs 500 lumens with the C•O•B work light and 200 lumens from the top flashlight. The red C•O•B light is perfect for distress signaling or roadside emergencies. The steel clip and magnetic base provide convenient hands-free lighting options.

4 Light Modes: • Top light (200 lumens) - 8 hours / 75 meters • Work light (500 lumens) - 2.5 hours / 31 meters • Red light (40 lumens) - 20 hours / 7 meters • Red hazard flasher - 40 hours / 7 meters

Design: • Fully dimmable • Direct-to-Red Feature • Memory Power Setting • Anodized aircraft-grade aluminum; water and impact-resistant • Steel belt/pocket clip • Powerful magnetic base.

P/N 13-23699 ..... ---

NVIS FINGER LIGHT PRO

Standard Finger Light Pro lights are available in Red or White. These lights are not NVIS/NVG compatible. The new Pro version powers a 3mm White or Red LED specifically selected to match a laser cut Lexan filter material.

The 3mm LED is recessed inside inside the body of the light. This means less lateral visibility, ideal to reduce canopy glare and increase light discipline. It was developed to accommodate the F-22, and was tested with several rotorcraft types.

White .....P/N 13-22225 ..... ---
Red.....P/N 13-22226 ..... ---

NEBO SLIM FLASHLIGHT

The NEBO SLIM is a thin, ergonomic rechargeable pocket light that outputs 500 lumens of intense bright light. Equipped with full dimming and Power Memory Recall, the SLIM also features a pocket clip, collapsible hanging hook and powerful magnetic base for convenient hands-free lighting. 3 Assorted Colors (Red, Silver, Black) Nebo MYCRO Pocket Light color is shipped randomly ....P/N 13-22077 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PILOT FLASHLIGHTS

SUREFIRE G2X™ PRO

A polymer-body version of the 6PX Pro, uses a high-efficiency LED—virtually immune to failure since there's no filament to burn out or break—that provides two light output levels: a brilliant, penetrating, perfectly pre-focused 200-lumen beam, and a 15-lumen low-output setting that lets you greatly extend the runtime per set of batteries, an invaluable option when you find yourself miles from civilization. Press the tailcap switch for momentary-on low, press further to click constant-on low, return to off and press or click on again within two seconds for high. A polycarbonate micro-textured reflector delivers a comparatively wider beam with generous peripheral light.....P/N 13-10290 ..... ---

SUREFIRE G2Z-MV COMBATLIGHT® FLASHLIGHT

SureFire's single-output G2Z™ Combatlight® with Max Vision™ flashlight—designed and built specifically for tactical use—features a proprietary reflector that shapes the high-output LED's 650 lumens of light into a wide, useful MaxVision Beam™ optimized for your field of vision. With its designed 14 mm bezel, the compact G2Z is even shorter and lighter in weight than its predecessor, generates nearly twice the output, and has all of the same features for outstanding tactical performance.

P/N 13-20653 ..... ---

SUREFIRE LITHIUM BATTERIES

Optimized for use in SureFire flashlights, SureFire lithium batteries pack a lot of power into a small package. And unlike some other batteries SureFire high-performance lithium batteries boast a ten-year shelf life, which means they will be ready when you need them, every time. For all SureFire Lithium battery powered lights.

12 Pack.....P/N 13-18714 ..... ---
2 Pack.....P/N 13-18715 ..... ---

SEE WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE SELECTION OF SUREFIRE FLASHLIGHTS.

AVEO THE AVIATOR FLASHLIGHT

World-Class AveoTM circuitry. Ni-MH rechargeable batteries. Fixed 25º Lens. Single color light (White). Steady, strobe and SOS function. Dimming – Stepless slide-switch 0-100%. Charge level indicator on the flashlight. DO-160G Environmentally qualified. Anodized aluminum construction. Black anodizing color. IP68 Waterproofness. DC Battery charger included. Charging/Mounting cradle option (not included). Low EMI, low self-discharge, overheat protected. Private logo/label available .....P/N 11-15181 ..... ---

FLIGHTLIGHT™ - PILOT FLASHLIGHT

A flashlight is a must have for every pilot's flight bag. In or out of the cockpit, this conveniently sized, long lasting, and durable flashlight serves as a great pilot companion. This 3-in-one LED flashlight toggles between red, green, or white depending on your cockpit needs. With an LED life of 100,000 hours, the included alkaline batteries can keep this flashlight illuminated for up to 17 hours in "red" mode and 14 hours in "white".

P/N 13-01067 ..... ---

WORKBRIGHT INSPECTION LIGHT

This shop light is perfect for places that a flashlight can't quite illuminate properly. It was originally designed as an inspection light, but has many other uses as well. It is powered through a USB connector, and can be used with a battery pack, wall adapter, computer, etc.

Features: • USB Powered, 250mA (1.25W) • 140 lm • Color Temp: 5000 K • CRI: 80 • Cable Length: 6.5' • Outer Dimensions: 2.5" x 3" x 1" • Meets FCC Class B Requirements • Velcro Cable Tie Included • IP20 (not fluid or dust proof) • Compatible with UD1 Controller.

P/N 12-04780 ..... ---

NEBO MYPAL PERSONAL ALARM AND LIGHT

The first NEBO flashlight designed just for women is the MYPAL, a rechargeable personal alarm and light. The various light modes make the MYPAL perfect for any task at hand, and the 400 lumen TURBO mode can light up any space. The MYPAL also features an ear-piercing, 115dB safety alarm and distress strobe to provide safety right at your fingertips. The MYPAL's compact size fits perfectly in a purse or on a key chain.

* 2 Assorted Colors (Black, Pink)*
* Nebo MYCRO Pocket Light color is shipped randomly.

P/N 13-22458 ..... ---

SUREFIRE E1B-MV BACKUP™ FLASHLIGHT

The sleek, ultra-compact E1B-MV was originally developed as backup lights for law enforcement pros. This outstanding everyday-carry light sets itself apart from the rest of the Backup family with its broad, useful MaxVision Beam™, created by a special faceted reflector that shapes the LED's light into a smooth, seamless wall of light that's perfect for closer-range applications and maintaining situational awareness.....P/N 13-20652 ..... ---

SUREFIRE AVIATOR® DUAL-OUTPUT LED FLASHLIGHT

The ultra-compact, dual-output Aviator reinvents a classic SureFire design to provide a primary white LED and secondary colored LED in one sealed head, both focused into a useful beam with ample reach and surround light by a proprietary Total Internal Reflection (TIR) lens. Pull and twist Aviator's self-locking selector ring to set it to white or colored light, no filter required.

Red Light.....P/N 13-20655 ..... ---

SUREFIRE FURY-DFT FLASHLIGHT

The "DFT" stands for dual fuel tactical, and represents the natural evolution of the best-selling Fury® Tactical flashlight into a single-output 1,500* lumen light that can also function as a searchlight. The dual fuel feature means the light can be powered by either two 123A lithium batteries or a single economical 18650 lithium-ion rechargeable battery. The high-strength aerospace aluminum body and tailcap are knurled for a secure grip and Mil-Spec hard anodized for extreme resistance to abrasion and corrosion.....P/N 13-21609 ..... ---

SUREFIRE MINIMUS™ HEADLAMP

The model that launched SureFire headlamps into best-in-class status. Minimus provides the right amount of light—13 preset outputs up to a max of 300 lumens—precisely where you need it, thanks to its adjustable output knob and rotatable LED housing ..... P/N 13-20659 .....

SUREFIRE MAXIMUS™ HEADLAMP

The SureFire Maximus™ rechargeable variable-output LED headlamp delivers an amazing 1,000 lumens of light—enough to illuminate your entire campsite. If that's too much light, you can dial it down to 1 lumen—or any level in between—for closer work, preserving your dark-adapted vision, or extending the runtime. A large knurled dial permits output control with one hand—even if it's gloved or numbed by cold. One hand can also aim the light right where you want it since the light assembly rotates up and down 90 degrees.....P/N 13-20660 ..... ---

TITAN® PLUS ULTRA-COMPACT DUAL-OUTPUT LED KEYCHAIN LIGHT

The refined, ultra-compact Titan® Plus builds upon groundbreaking Titan, the world's first professional-grade keychain flashlight, by adding several useful "pluses," including more than twice the maximum output—300 lumens of flawless white light! Its high-performance LED also generates two other useful light levels with a simple twist of the head switch: 75 lumens at its medium setting and 15 lumens on low. No matter which output level you select, proprietary faceted reflector shapes the LED's light into wide, smooth MaxVision Beam™. And, because there are no intense hot spots and it's optimized for your field of view, you see things clearly and maintain good situational awareness—crucial for closer-range tasks and safe navigation

P/N 13-22301 ..... ---

BITE-A-LITE FLASHLIGHT MOUTHPIECE

A clever mouthpiece for comfortably holding a flashlight with your teeth. Fits most "AA" or "AAA" size quality aluminum flashlights. Note: flashlight not included. This is the mouth piece only.

AA Flashlight Holder: .465" ID
AAA Flashlight Holder: .675" ID

Size AA.....P/N 14-00020 ..... ---
Size AAA.....P/N 14-03292 ..... ---

FLIGHT OUTFITTERS HORIZON HEADLAMP

Based on our original headlamp, the Horizon Headlamp has an improved comfort fit band and a strengthened hinge mechanism. Flying at night can be a daunting task. Having both hands free to handle the workload during these tense situations is extremely important. This dual color headlamp puts the right type of light right where you need it without tying up your hands. Dual switches allow you to turn on just the white light, or just the red light. This means you don't have to scroll through different lights and ruin your night vision. Each color of light has a high and low setting to maximize battery life. Uses 3AAA batteries (included). **Features:** • White LED flood light for preflight • Red LEDs to preserve night vision • Focusing white flood light • Pivoting attachment point • Elastic band.....P/N 13-25486 ..... ---

PS

PILOT FLASHLIGHTS

XEVISION PERSONAL LED FLASHLIGHTS

The compact LED flashlights are so small that they fit in the palm of a hand comfortably. They are so bright, even die-hard HID Xenon lighting technology purists can not resist.

Super-bright white light from one small but powerful LED
Our LED flashlights feature the latest commercial Cree LED 7090 XR-E, which delivers unprecedented levels of bright white light. The legendary 7090 XR-E is tested to the highest standards in the LED industry. The white light generated is as cool as HID with around 4000ºK to 5000ºK. The current draw is quite small while the LED is very efficient with a luminous flux of up to 100 lm min. @ 350 mA, and a luminous efficacy up to 75 lumens/watt.

XeVision personal LED flashlight models - The compact LED flashlights are so small that they fit in the palm of a hand comfortably. They are so bright, even die-hard HID Xenon lighting technology purists can not resist.

XV-C1C

Is their most compact LED flashlight using one long-lasting 3 VDC Lithium CR123A battery. The XV-C1C features six settings, 4 of them being output levels. This flexibility not only allows the user to select the best compromise between brightness and runtime for any given task but also has the ability to aid in an emergency. The XV-C1C offers a remarkably compact size and is extremely solid and reliable with its digitally regulated brightness. One 3 VDC CR123A Lithium battery
XV-C1C (Black) .....P/N 13-05144 ..... ---
XV-C1C (Iridium) .....P/N 13-05147 ..... ---

XV-C2C

Features six settings, 4 of them being output levels. This flexibility not only allows the user to select the best compromise between brightness and runtime for any given task but also has the ability to aid in an emergency. The XV-C2C offers a remarkably compact size and is extremely solid and reliable with its digitally regulated brightness. Two 3 VDC CR123A batteries (Lithium), not rechargeable.
XV-C2C (Black) .....P/N 13-05145 ..... ---
XV-C2C (Iridium) .....P/N 13-05148 ..... ---

XV-C2A

Features six settings, 4 of them being output levels. This flexibility not only allows the user to select the best compromise between brightness and runtime for any given task but also has the ability to aid in an emergency. The XV-C2A offers a compact size and is extremely solid and reliable with its digitally regulated brightness. Two 1.5 VDC AA (Alkaline, Lithium) or 1.2 V NiMH batteries.
XV-C2A (Black) .....P/N 13-05146 ..... ---

ACCESSORIES

Model	Description	Part No.	Price
WF-138C Charger for XeVision XV-C2C	Charger for a single or pair of over-discharge protected R-CR123A rechargeable Li-Ion cells. Comes with 2 R-CR123A cells.	13-05141	---
WF-138 Charger only	Just the charger - for the WF-123 combo package	13-05140	---
CR123A Single Cell Lithium Technology	1 Titanium 3 V CR123A battery. For the XV-C1C LED flashlight. Prevents excessive discharge that can damage lithium cells and may lead to catastrophic incidents.	13-05142	---
CR123AX2 Twin Cell Lithium Batteries	2 Titanium CR123A batteries are carefully matched and form one single sealed unit, 3 V but double capacity). Used for the XV-C2C LED flashlight. Prevent excessive discharge that can damage lithium cells and may lead to catastrophic incidents.	13-05143	---

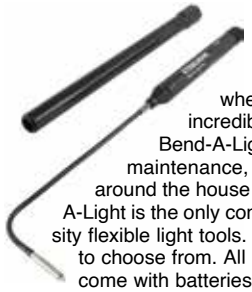
LARRY POWER LED WORK LIGHT

The Larry™ is BRIGHTER THAN EVER! Now, equipped with C•O•B LED technology, the Larry™C outputs 170 lumens of intense light. The rotating magnetic clip gives you convenient hands-free lighting by attaching to virtually anything. The reinforced plastic body design is water and impact-resistant, making this light basically indestructible. Powered by 3 AAA batteries (included). Size: (H) 6.375" x (W) 0.55" x (D) 1.25". 0.1870 lbs.....P/N 13-18551 ..... ---

COAST PX20 DUAL LED FLASHLIGHT

The PX20 Dual Color LED Flashlight combines five super bright white LEDs with one red LED. Each LED is controlled by a separate switch, allowing you to turn on the desired color with one click; no cycling through switch modes to find your color. The white light is for general flashlight use, while the red LED is perfect when you only need minimal light, such as when reading a map. A lightweight aluminum casing offers great durability and will hold up to heavy daily use .....P/N 13-12049 ..... ---

BEND-A-LIGHT



Bend-A-Light flexible brass–alloy high intensity light tools bend to any configuration and illuminate hard-to-reach areas where conventional lighting cannot go. The incredibly brilliant light beam penetrates anywhere! Bend-A-Light is a must for electronics, automotive, maintenance, repairs, locksmiths, industrial, hobbies, around the house and more. You bend it…and it holds! Bend-A-Light is the only complete line of professional quality high intensity flexible light tools. Available in 3 lengths and 3 different lamps to choose from. All Bend-A-Light models are made in USA and come with batteries installed.

Features:
- High intensity flexible light bends and holds position
- Provides bright light in tight spaces
- Protective cover can be used for extension
- Durable handle with brass shafts
- Batteries Included

Part No.	Description	Length Flex Shaft	Length Overall	Batt.	Bulb	Price
12-15005	Mini Pro	6"	11.5"	2-AAA	12100	---
12-15150	Pro	15.75"	24"	3-AA	12110	---
12-10250	Removable Shaft	9.5"	15.75"	2-AA	12100	---

Part No.	Description	Dia	Bulb Life	Price
12-15020	12100 - Replacement Lamp	5/32"	4 Hours	---
12-12110	12110- Krypton Lamp	5/32"	20 hours	---

PILOT'S HANDY LANYARD LIGHT

This emergency light with a break-away neck lanyard is great for use around any aircraft. Ideal for pre-flight inspections after dark, providing you with a small, powerful flashlight which you can simply hang around your neck as you preflight the aircraft. Also makes the perfect cockpit light in an emergency. Furnished with blue-green and red lenses for night flying as well as a standard clear lens. Includes lanyard & 1 AAA battery.
P/N 13-00571 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FLASHLIGHT HOLDERS - ARM RESTS

MERCURY CLAMP FLASHLIGHT HOLDER

Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automative, racing, and emergency lifesaving applications. Available in Mercury models for smaller flashlights and Gemini models for largers flashlights.

Features:
- Chrome Plated Steel Clamp
- Stainless Steel Hardware
- High Strength Polymer
- Plastic Details
- Tough Nylon Shock Cord
- Will Accept Any Shape
- Hold Object Securely

P/N 13-04005 ..... ---

MERCURY-MAGNETIC FLASHLIGHT HOLDER

Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automative, racing, and emergency lifesaving applications.

Features:
- For smaller flashlights/objects
- Magnetic 2" diameter base
- 25 lb. Magnetic Pull

Specifications:
- Overallweight: 4 oz.

P/N 13-04006 ..... ---

GEMINI CLAMP FLASHLIGHT HOLDER

Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automative, racing, and emergency lifesaving applications. Available in Mercury models for smaller flashlights and Gemini models for largers flashlights.

Features:
- Chrome Plated Steel Clamp
- Stainless Steel Hardware
- High Strength Polymer
- Plastic Details
- Tough Nylon Shock Cord
- Will Accept Any Shape
- Hold Object securely.

P/N 13-04007 ..... ---

GEMINI MAGNETIC FLASHLIGHT HOLDER

Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automative, racing, and emergency lifesaving applications. Available in Mercury models for smaller flashlights and Gemini models for largers flashlights.

Features:
- Chrome Plated Steel Clamp
- Stainless Steel Hardware
- High Strength Polymer
- Plastic Details
- Tough Nylon Shock Cord
- Will Accept Any Shape
- Hold Object securely

P/N 13-04008 ..... ---

SIDESTICK CONTROL ARM RESTS

The side stick control arm rests will steady the hand, wich improves flying and reduces wrist and arm fatigue. The arm rests were designed by an orthopedic specialist to reduce wrist and hand carpel tunnel syndrome. They can also be used for throttle rests. Color: Black. ABS plastic. Furnished as right/left set. .....P/N 13-03265 ..... ---

CIGPEN

CIGPEN HOLDER - CigPen installation is as easy as 123. Pull the nasty ashtray out, peel the double stick tape, insert and press in CigPen. CigPen was designed to hold two standard pencils or pens along with a Mini Mag Lite AAA. For a very low cost, you can easily turn your existing ashtray into a useful device. Fits C-150, 172, 182 Cardinal. DOOR LOCK HANDLE - When you order the CigPen, you will also receive the Cessna 150 door lock. The door lock is made from ABS Plastic. It is engraved with lock, un-lock, and indicating arrows. Fits C-150 airplanes.

P/N 13-06913 ..... ---

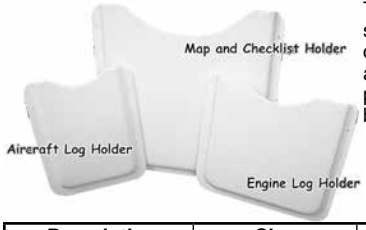
CIGPEN 2

The Cigpen2 fits in the same space as that used by the ashtray in aircraft such as the Cessna 172, 182, 210, and many other makes and models. An ideal product for experimental aircraft. Provides a holder for two AA batteries, and a loop to hold a pen.

In The Box:
1 - Base
1 - Battery Holder
1 - Pen Holder

Note: Optional install of head set jacks by simply drilling two holes .....P/N 13-22416 ..... ---

MAP, CHECKLIST & LOG BOOK HOLDERS



These holders come in three sizes to store your maps, checklists and log books. They are thermoformed from ABS plastic, and come in either black or gray.

Description	Size	Color	Part No.	Price
Aircraft Log	4-1/2"x7"x1/4"	Black	13-03086	---
Engine Log	6-1/2"x7"x1/2"	Black	13-03087	---
Map/Checklist	9"x10"x 5/8"	Gray	13-03088	---
Aircraft Log	4-1/2"x7"x1/4"	Gray	13-03089	---
Engine Log	6-1/2"x7"	Gray	13-03090	---

CESSNA 172 CUP HOLDER WITH FOLDING HEADSET EXTENSION - 3RD GENERATION

Fits for Left or Right installation.
Aircraft Eligibility: Cessna 172 - Fits Models C - Q with UPHOLSTERED side panels only.
Does not fit factory late model plastic or aftermarket plastic side panels .....P/N 13-25856 ..... ---

CESSNA 182 CUP HOLDER FOLDING HEADSET EXTENSION

This product has been made for those of us who are tired of not having a good place to stow our headset(s) or beverage especially on those long X-country flights. Aircraft Eligibility: Cessna 172 - Fits Models D thru R with UPHOLSTERED side panels. Left or Right side! br> Does not fit factory late model plastic or aftermarket plastic side panels

Right ..... P/N 13-25858 ..... ---
Left ..... P/N 13-25857 ..... ---

PS

WIRE MARKERS – SAFETY STEPS

TANA WIRE MARKERS

Tana Wire Markers are large fiber-glass balls which can be attached to power lines to warn aircraft of the location of the wires. They meet FAA specifications, feature easy installation and universal attachment, withstand the elements for over 10 years, require no maintenance, do not slip, chafe, oscillate, or cause electrolysis or vibration. Stocked in 9", 12", and 24" sizes. Larger sizes available on request. Color: international orange. Stocked in Tana marker style JX.
Styles SD, KJ, AR, XL, and BN are available by special order. Please Request a Quote.

9" diameter with Tape ..... P/N 13-18710 ..... ---
9" diameter w/o Tape ..... P/N 13-18711 ..... ---
12" diameter with Tape ..... P/N 13-00057 ..... ---
20" diameter with Tape ..... P/N 13-00058 ..... ---
24" diameter with Tape ..... P/N 13-00059 ..... ---
12" diameter w/o Tape ..... P/N 13-00054 ..... ---
20" diameter w/o Tape ..... P/N 13-00055 ..... ---
24" diameter w/o Tape ..... P/N 13-00056 ..... ---

BIRD DETERRENT - BIRDXPELLER PRO

The BirdXPeller PRO is a sonic bird repeller that broadcasts a variety of naturally recorded bird distress signals and predator calls that frighten, confuse and disorient pest birds within the effective range. Pest birds cause damage, liability and health hazards. Sonic bird control is a safe, humane, eco-friendly way to get rid of birds from outdoor areas. Sonic repellers use high-definition digital recordings. Customizable settings allow for easy, DIY pest control. Real sounds – digital playback of naturally recorded threats. Covers up to 1 acre. Repels: pigeons, starlings, sparrows and gulls. ..... P/N 13-00091 ..... ---

LARGE AIRPORT CONE MARKERS

Avlite's range of airfield cone markers is rotationally-molded using UV-stabilised polyethylene, providing exceptionally long-life without the need for painting.

Large Cone Marker Yellow
P/N 11-14012 ..... ---
Large Cone Marker Orange
P/N 11-14013 ..... ---
Mini Cone Marker Blue
P/N 11-14014 ..... ---

UNIVERSAL SAFETY STEP

Unique Self-Leveling Anti-Tip design. Tubular Aluminum 11" x 14" platform, 8" high. Custom designed non-slip Safety Strips on Platform. Powder coat finish. Rugged All Aluminum Welded Construction – will not corrode. Heat Treated for Maximum Strength. Weight – 4 lbs. Lab Tested to 1000 lbs. Weight: 7 lbs. Dimensions: 19 x 16 x 8 in
P/N 13-18575 ..... ---

LO-COMMERCIAL 6 INCH SAFETY STEP

Unique Self Leveling Anti-Tip Design. Tubular Aluminum 12" x 19" Platform, 6" High Non-Slip Safety Strips on Platform. Powder Coat Finish. All-Aluminum Welded Construction. Heat Treated for Maximum Strength. Weight – 4 1/2 lbs. Lab Tested to 1000 lbs. Weight: 8 lbs. Dimensions: 27 x 21 x 7 in.
P/N 13-18576 ..... ---

COMMERCIAL 8 INCH SAFETY STEP

Tubular Aluminum 15"x19" platform, 8" high. Custom Designed Non- Slip Safety Strips on Platform. Powder coat finish. Rugged All Aluminum Welded Construction, will not corrode. Heat Treated for Maximum Strength. Weight – 6 1/2 lbs. Lab Tested to 1000 lbs. Weight: 11 lbs. Dimensions: 27 x 21 x 8 in.
P/N 13-18577 ..... ---

FOLDING SAFETY STEPS

Unique Self-Leveling Anti-Tip design. Unique Double-Locking Safety Legs. Custom Designed Non-Slip Safety Strips on platform. Powder coat finish. Rugged All Aluminum Welded Construction – Will not corrode. Heat Treated for Maximum Strength. Unique Self-Leveling Anti-Tip design. Unique Double-Locking Safety Legs. Custom Designed Non-Slip Safety Strips on platform. Rugged All Aluminum Welded Construction – Will not Corrode. Heat Treated for Maximum Strength.

Small ..... P/N 13-18578 ..... ---
Large ..... P/N 13-18579 ..... ---
Extra Large ..... P/N 13-18580 ..... ---

HANDLE SAFETY STEP

Unique Self Leveling Anti-Tip Design. Lab Tested to Hold 1000 lbs. Weighs Only 10 1/2 lbs. Heavy Duty Tubular Aluminum 15" x 19" Platform With An 8" Step Height. 34" Steel Handle. Safety Strips and Angled Leg Tips to Prevent Slippage. Durable, Textured Powder Coat Finish Will Not Rust. Weight: 18 lbs. Dimensions: 26 x 19 x 16 in.
Steel Handle: 34" ..... P/N 13-18581 ..... ---

INDUSTRIAL SAFETY STEPS

Unique Self Leveling Anti-Tip Design. Lab Tested to Hold 1000 lbs. Weighs Only 10 1/2 lbs. Heavy Duty Tubular Aluminum 15" x 19" Platform With An 8" Step Height. 34" Steel Handle. Safety Strips and Angled Leg Tips to Prevent Slippage. Durable, Textured Powder Coat Finish Will Not Rust. Unique self-leveling Anti-Tip design. Tubular Aluminum 15"x19" platform, 8" high - 15" high. Brackets for increased durability. Custom Designed Non- Slip Safety Strips on Platform. Available Safety Yellow powder coat finish. Rugged All Aluminum Welded Construction, will not corrode. Heat Treated for Maximum Strength. Weight: 8" - 7 1/2 lbs / 10" - 8 lbs / 12" - 8 1/2 lbs / 15" - 9 1/2 lbs. Lab Tested to 1000 lbs.

8 Inches ..... P/N 13-18582 ..... ---
10 Inches ..... P/N 13-18583 ..... ---
12 Inches ..... P/N 13-18584 ..... ---
15 Inches ..... P/N 13-18585 ..... ---

SAFETY STEP ACCESSORIES

Description	Part No.	Price
Safety Step Replacement Strips Set for 15x19 Deck Fits Models: 13-18577, 13-18579, 13-18582,13-18583, 13-18584 & 13-18585	13-18589	---
Safety Step Replacement Strips Set for 12x19 Deck Fits Models: 13-18576	13-18589-1	---
Safety Step Replacement Strips Set for 11x14 Deck Fits Models: 13-18578 & 13-18575	13-18589-2	---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

LEATHERMAN POCKET TOOLS – SUNGLASSES

LEATHERMAN WINGMAN

The Leatherman Wingman is just that: your go-to tool for projects around the house, on the job, or at the campsite. A great, lightweight, pocket-sized, stainless steel tool; the Wingman features an outside-accessible, one-hand opening blade and newly-designed spring-action jaws. With plenty of handy tools, and backed by a team of designers, assemblers, and manufacturing crew from Portland, Oregon, this is one amazing value. Covered by the Leatherman 25-year warranty.

Features: • 14 Tools • Stainless Steel Body • Spring-action Needlenose Pliers • Spring-action Regular Pliers • Spring-action Wire Cutters • 420HC Combo Knife • Package Opener • Wood/Metal File • Spring-action Scissors • Small Screwdriver • Medium Screwdriver • Phillips Screwdriver • Ruler (1 in / 2.54 cm) • Bottle Opener • Can Opener • Wire Stripper • Removable Pocket Clip

Specifications: • Blade Length: 2.6 inches • Wingman Length (Closed): 3.8 inches .....P/N 13-11705 ..... ---

LEATHERMAN WAVE TOOL

Needlenose Pliers, Regular Pliers, Wire Cutters, Hard-Wire Cutters, Clip-Point Knife, Serrated Knife, Saw, Scissors, Wood/Metal File, Diamond-Coated File, Large Bit Driver, Small Bit Driver, Large Screwdriver, Ruler (8 inch/19 cm), Bottle/Can Opener, Wire Stripper, Lanyard Attachment, Two Double-Ended Bit.

Features: • 17 Tools • 420HC Point Knife • 420HC Sheepsfoot Serrated Knife • Needle-nose Pliers • Regular Pliers • Wire Cutters • Hard-Wire Cutters • Wire Stripper • Saw • Scissors • Wood/Metal File • Diamond-Coated File • Large Bit Driver • Small Bit Driver • Large Screwdriver • Ruler (8 inch/19 cm) • Bottle/Can Opener • Included Bits: Phillips and Flat Tip Eyeglasses Screwdriver Bit, Phillips #1-2 and 3/16" Bit ...P/N 13-03289 ..... ---

LEATHERMAN SKELETOOL

420HC Stainless Steel Clip Point Combo Straight/Serrated Knife. Needlenose Pliers. Regular Pliers. Wire Cutters. Hard-wire Cutters. Large Bit Driver. Bottle Opener. Carabiner Clip. INCLUDED BITS: Phillips #1 and #2 Bit, Screwdriver 3/16" and 1/4" Bit. Stainless Steel with 6061-T6 Aluminum Handle Insert. Stainless Steel body. Outside-accessible Blade for One-handed Opening. All Locking Blades and Tools. Removable Pocket Clip. Nylon Sheath Sold Separately. 25-year Warranty. 4 in / 10 cm (closed). 5.0 oz / 142 g. 2.6 in l 6.60 cm (blade length)

Specifications: • Length: 4 in. / 10 cm closed • Weight: 5 ounces / 142 grams • Blade Length: 2.6" • Materials: Stainless Steel with 6061-T6 Aluminum Handle Insert • Nylon Sheath Sold Separately Skeletool .....P/N 13-07068 ..... ---

LEATHERMAN SIDEKICK

Stainless Steel Body, Leather Sleeve, Spring-action Needlenose Pliers, Spring-action Regular Pliers, Spring-action Wire Cutters, 420HC Combo Knife, 420HC Serrated Knife, Saw, Wood/Metal File, Small Screwdriver, Medium Screwdriver, Phillips Screwdriver, Ruler (1 in / 2.54 cm), Bottle Opener, Can Opener, Wire Stripper, Removable Pocket Clip, Lanyard Ring, Carabiner Bottle Opener Accessory.

Features: • 14 Tools • Stainless Steel Body • Leather Sleeve • Spring-action Needlenose Pliers • Spring-action Regular Pliers • Spring-action Wire Cutters • 420HC Combo Knife • 420HC Serrated Knife • Saw • Wood/Metal File • Small Screwdriver • Medium Screwdriver • Phillips Screwdriver • Ruler (1 in / 2.54 cm) • Bottle Opener • Can Opener • Wire Stripper • Removable Pocket Clip • Lanyard Ring • Carabiner Bottle Opener Accessory .....P/N 13-11703 ..... ---

LEATHERMAN CHARGE + TTI

Lightweight and made of premium materials, this upgraded version of the original includes replaceable wire cutters. One of the more popular tools, the Charge Plus TTi is ready for jobs big and small. This practical multi-tool combines some of our most requested features with premium materials and upgraded, replaceable wire cutters. Titanium handles make the tool lightweight and strong and an ultra-sharp S30V steel knife blade resists corrosion. **Features**: • Needlenose Pliers: Perfect for holding small objects or using the pliers in tight, narrow spaces. • Regular Pliers: Conveniently hold and manipulate items. • Premium Replaceable Wire Cutters: Easily cut through regular and light-gauge wire with this replaceable, edge-retaining tool. • Premium Replaceable Hard-wire Cutters: Easily cut through electrical hard wires with this replaceable, edge-retaining tool. • Electrical Crimper: Found in the jaw of the tool and used for general purpose crimping of electrical connectors. • Wire Stripper: Safely strip multiple gauges and types of wire. • S30V Knife: This knife's premium steel has superior rust-resistance and stays sharp longer. • 420HC Serrated Knife: Cut rough materials (like rope or fiber) with this corrosion-resistant, easily maintained knife. • Saw: Quickly and easily saw through tough materials with this open-toothed tool. • Spring-action Scissors: Use one hand to quickly and easily cut through thin materials. • Cutting Hook: Safely cut tape, cord, seatbelts, and other materials. • Ruler (8 in (19 cm)): A precise measuring guide for determining length in inches or centimeters, up to 8 inches or 19 centimeters. • Can Opener: Safely and easily open canned goods in wilderness situations. • Bottle Opener: Pop the top on a favorite beverage. ..... P/N 13-21325 ..... ---

VISIT OUR WEBSITE TO VIEW OUR COMPLETE LISTING FOR LEATHERMAN TOOLS.

METHOD SEVEN AVIATION SUNGLASSES

METHOD SEVEN ASCENT AVIATOR FLT18 SUNGLASSES

Non-polarized for pilots, utilizing notch filtering technology. FLT lenses weigh in at 30% less than our SKY lenses. Medium tint and a VLT of 18% makes them a great choice for general and mixed conditions.

Specifications: • Eye Width: 58mm • Bridge Width: 14mm • Temple Length: 140mm • Base Curve: Base 6 .....P/N 13-24364 ..... ---

METHOD SEVEN ASCENT AVIATOR SKY 18 SUNGLASSES

SKY mineral glass lenses define the pinnacle of contrast and clarity. The SKY18™ has a medium VLT of 18%, making it a perfect choice for mixed conditions.

Specifications: • Eye Width: 58mm • Bridge Width: 14mm • Temple Length: 140mm • Base Curve: Base 6 .....P/N 13-24331 ..... ---

METHOD SEVEN AVIATRIX FLT18 SUNGLASSES

Designed specifically for female pilots, the Aviatrix is crafted from Japanese titanium and features tangle free nose pads. Lightweight and shatterproof, FLT lenses are the first to offer notch filtering in a durable polymer.

Specifications: • Eye Width: 57mm • Bridge Width: 15mm • Temple Length: 121mm • Base Curve: Base 6 .....P/N 13-24332 ..... ---

METHOD SEVEN CLIP-ON FX2 AVIATOR SUNGLASSED -

Non-polarized, spring-loaded clip-on lenses, specifically optimized for use in the cockpit during flight. Designed to fit most prescription glasses, these lenses will not interfere with electronic flight instruments. ..P/N 13-25698 ..... ---

VISIT OUR WEBSITE FOR MORE METHOD SEVEN AVIATION SUNGLASSES

METHOD SEVEN CULTIVATOR FX CLASSIC ANSI RATED SAFETY GLASSES -

100% UV protection. Infrared heat reduction keeps eyes cool and moist plus an anti-reflective coating cuts glare. Designed for full spectrum LED and CMH lights. Meets or exceeds ANSI-Z87+S & CSA-Z94.3 Standards.

Specifications: • Eye Width: 68mm • Bridge Width: 16mm • Temple Length: 121mm • Base Curve: Base 8 .....P/N 13-24335 ..... ---

METHOD SEVEN PATRIOT SKY 9 SUNGLASSES

The SKY9™ has a VLT of 9%, making it one of the darkest lenses on the market and suitable for extremely bright conditions. **Specifications**: • Eye Width: 64mm • Bridge Width: 17mm • Temple Length: 135mm • Base Curve: Base 8

P/N 13-24333 ..... ---

METHOD SEVEN INTERCEPTOR MACH SUNGLASSESM-

Inspired by elite fighter aircraft, the Interceptor offers an aerodynamic, comfortable fit with headsets and helmets. All new non-polarized MACH lenses deliver the color, contrast, and clarity you've come to expect from Method Seven in a stealth, non-mirrored lens with dual A/R coatings and full UV protection. ....P/N 13-25789 ..... ---

METHOD SEVEN PATRIOT MACH SUNGLASSES-

The Patriot is Method Seven's elite stealth performance frame, designed specifically for The Patriots Jet Team. Titanium alloy construction features Japanese hand tooling and seamlessly conforms to your face. Lightweight, strong, and flexible, the Patriot is headset and flight helmet compatible, offering exceptional peripheral vision in a sleek wraparound design. All new non-polarized MACH lenses deliver the color, contrast, and clarity you've come to expect from Method Seven in a stealth, non-mirrored lens with dual A/R coatings and full UV protection. ....P/N 13-25789 ..... ---

PS

RAY-BAN AVIATION SUNGLASSES

Ray-Ban is the leading brand in the high quality sunwear market segment and by far the best-selling sunwear brand in the world. It is an all American Brand created 1937 with the Aviator style, developed fpr use by the pilots of the U.S Air Force.

Style	Frame	Lens Color	Part No.	Price
RB 3025	Arista	G-15 XLT 62mm	13-04984	---
RB 3025	Arista	G-15 XLT 58mm	13-04990	---
RB 3025	Black	G-15 XLT 58mm	13-04991	---
RB 3025	Black	Polarized Natural Green 58mm	13-04987	---
RB 3025	Gunmetal	Polarized Natural Green 58mm	13-04989	---
RB 3025	Arista	Polarized Natural Green 58mm	13-04985	---

G-15XLT is a Grey Color

Style	Frame	Lens Color	Part No.	Price
RB 3026	Black	G-15 XLT	13-04992	---
RB 3026	Arista	G-15 XLT	13-04993	---

G-15XLT is a Grey Color

Style	Frame	Lens Color	Part No.	Price
RB 3030	Arista	G-15 XLT	13-04994	---
RB 3030	Black	G-15 XLT	13-04995	---

SCHEYDEN FIXED GEAR WAYLITE SUNGLASSES

A timeless style mixed with aviation specifications. The Waylite is fashionable and durable. A first of its kind, the Waylite is an ideal fit for a wide range of facial sizes.
Anti-Reflective, Anti-Glare and 100% Protection from UVA & UVB.
Lens Options:
7-Layer Non-Polarized (Aviation, Golf, Driving)
8-Layer Polarized (Fishing, Boating, Driving)

FRAME STYLES

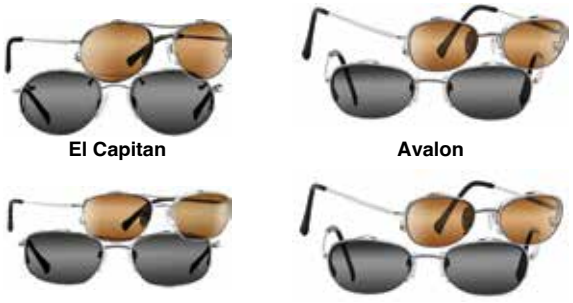
Black **Havana Tortoise** **Clear**

Description	Part No.	Price
Black Bronze	13-19030	---
Black Bronze Polarized	13-19031	---
Black Gray	13-19032	---
Black Gray Polarized	13-19033	---
Havana Tortoise Bronze	13-19038	---
Havana Tortoise Bronze Polarized	13-19039	---
Havana Tortoise Gray	13-19040	---
Havana Tortoise Gray Polarized	13-19041	---
Clear Bronze	13-19034	---
Clear Bronze Polarized	13-19035	---
Clear Gray	13-19036	---
Clear Gray Polarized	13-19037	---

SCHEYDEN FIXED GEAR LIBERATOR SUNGLASSES

The "Liberator" is a titanium version of the iconic aviator sunglasses, originally developed during the WWII era. This timeless, fashionable, and incredibly durable frame is perfect for those who demand the highest level of precision and quality. Anti-Reflective, Anti-Glare and 100% Protection from UVA & UVB.
Bronze.....P/N 13-19042..... ---
Gray.....P/N 13-19043..... ---

SCHEYDEN CLASSIC FLIP-UP SUNGLASSES



El Capitan **Avalon**

Sonoma **Avalon Small**

Scheyden patented FlipUp & locking mechanism, allows you to instantly adapt to constantly changing cockpit light conditions with the flip of a finger. Fabricated in titanium it weighs mere ounces. Offers 100% UVA & UVB protection, and crystal clear, distortion free vision. Backside Triple Anti-Reflective coating acts to diffuse ambient light from behind. Includes a Deluxe Case Pack with a luxurious microfiber cleaning cloth and glasses bag along with an aluminum hard case and leather flip sport case. Lifetime warranty on all titanium frames and the best lens replacement warranty in the eyewear industry.
Frames are Natural Titanium.

Model	Lens	Part No.	Price
El Capitan	High Contrast Bronze CR39	13-06947	---
El Capitan	Neutral Grey CR39	13-06948	---
Avalon	High Contrast Bronze CR39	13-06949	---
Avalon	Neutral Grey CR39	13-06951	---

Lenses are non-polarized as standard. This ensures that there is no distortion or "blacking-out" of glass cockpit instruments or LCD screens. Polarized lenses are available.

SCHEYDEN FIXED GEAR SUNGLASSES

Mustang **Albatross** **C-130**

The thin titanium ear-pieces fit comfortably under a headset and are small enough that they won't interfere with the ANR seal. Fixed Gear Mavericks are the choice of the US Air Force Thunderbirds. High Contrast Light Bronze lens offers 100% UVA & UVB protection and is recommended for low light conditions.

Model	Frame	Lens	Part No.	Price
Mustang	Natural Titanium	Bronze Polarized	13-11479	---
Mustang	Natural Titanium	Bronze Non-Polarized	13-11478	---
Mustang	Natural Titanium	Gray Polarized	13-11481	---
Mustang	Natural Titanium	Gray Non-Polarized	13-11480	---
Albatross	Natural Titanium	Bronze Polarized	13-11483	---
Albatross	Natural Titanium	Bronze Non-Polarized	13-11482	---
Albatross	Natural Titanium	Gray Polarized	13-11476	---
C-130	Titanium	Gray Polarized	13-16269	---
C-130	Titanium	Gray Non-Polarized	13-16270	---
C-130	Stealth Black	Gray Polarized	13-16271	---
C-130	Stealth Black	Gray Non-Polarized	13-16272	---
C-130	Swiss Gold	Gray Polarized	13-16273	---
C-130	Swiss Gold	Gray Non-Polarized	13-16274	---
C-130	Titanium	Bronze Polarized	13-16275	---
C-130	Titanium	Bronze Non-Polarized	13-16276	---
C-130	Stealth Black	Bronze Polarized	13-16277	---
C-130	Stealth Black	Bronze Non-Polarized	13-16278	---
C-130	Swiss Gold	Bronze Polarized	13-16279	---
C-130	Swiss Gold	Bronze Non-Polarized	13-16280	---

SCHEYDEN FIXED HYBRID COMPOSITE SUNGLASSES REVELSTROKE

Stylish composite frames have been combined with HiNiHg (High Nickel Silver) temples enabling full wrap frames that fit comfortably under a headset without disturbing the ANR seal. The frames will easily slide down the wearers nose and back up again to adapt to changing light conditions with the push of a finger. Scheyden Deluxe Case Pack is included.

Frame	Lens	Part No.	Price
Gloss Black	High Contrast Bronze CR39	13-06991	---
Gloss Black	Neutral Grey CR39	13-06992	---
Havana Tortoise	Neutral Grey CR39	13-06994	---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

RANDOLPH®

Randolph Engineering has been a leading supplier of military sunglasses to the U.S.Armed Forces since 1982. These sunglasses are the choice of America's Top Gun pilots and NASA astronauts. They meet demanding U.S. military specifications, provide superior glare protection and UV absorption and can be converted to prescription lenses. All of the sunglasses below feature 23K gold plated, hand polished frames and come with a crush resistant case.

Gold/Gray

Gold/AGX

Gold/Tan

AVIATOR – Standard issue for military pilots worldwide. (MIL.SPEC. 25948). These lenses sharpen detail and show colors evenly, making them ideal for flying. Bayonet temples provide optimum fit for use with a headset or helmet.

Size	Lens	Part No.	Price
52mm	Gold/Gray	13-00679	---
52mm	Gold/AGX	13-00680	---
55mm	Gold/Gray	13-00681	---
55mm	Gold/Tan	13-00682	---
55mm	Gold/AGX	13-00683	---
58mm	Gold/Gray	13-00684	---
58mm	Gold/Tan	13-00685	---
58mm	Gold/AGX	14-01848	---

CONCORDE – The Concorde features the world famous tear drop aviator lens design, monoblock hinge design, skull temple bars, and non-slip silicone nose pads. A very popular sunglass style with lenses that are convertible for prescription lenses.

Gold/Green

Gold/Tan

Size	Lens	Part No.	Price
57mm	Gold /Tan	13-00688	---
57mm	Gray/Green	13-00689	---
61mm	Gray/Green	13-00691	---

VISIT OUR WEBSITE FOR MORE SUNGLASS OPTIONS.

ROTHCO G.I. TYPE PILOT SUNGLASSES

Carries CE certified symbol on package. Metal-lens: hard coating acrylic. 58mm lenses.
Frame: Tempering, grounded, gold plating, clear plastic tip. Made to mil-std 105. Impact resistant. UV 400 protection. Bayonet temples. With black case. Available in: smoke lens with gold frame, smoke lens with chrome frame, smoke lens with black frame, and mirror lens with gold frame.

Chrome/Smoke

Black/Smoke

Gold/Mirror

Gold/Smoke

Size	Lens	Part No.	Price
58mm	Chrome/Smoke	14-02123	---
58mm	Gold/Mirror	14-02121	---
58mm	Black/Smoke	14-02120	---
58mm	Gold/Smoke	14-02119	---

AMERICAN OPTICAL SUNGLASSES

Performance-tested sunglasses with classic aviator styling. The Original Pilot Sunglass® has been a favorite of US military pilots for more than 40 years.
Engineered to rigid military specifications and issued to millions of US soldiers, sailors, marines and airmen since 1958.
The rugged and sturdy structure and high quality finishing of the steel alloy frame coupled with distortion free, toughened and polished True Color® glass lens have made the AO Flight Gear® Collection the standard bearer of all fine military sunglasses.

Original Pilot (Squared) Gold

Original Pilot (Squared) Matte/Chrome

Original Pilot (Squared) Silver

General (Oval) Gold

Size	Lens	Part No.	Price
52MM	Original Pilot (Squared) Gold	13-03212	---
55MM	Original Pilot (Squared) Gold	13-07784	---
57MM	Original Pilot (Squared) Gold	13-07813	---
52MM	Original Pilot (Squared) Matte/Chrome	13-07794-1	---
52MM	Original Pilot (Squared) Silver	13-07786	---
55MM	Original Pilot (Squared) Silver	13-07787	---
57MM	Original Pilot (Squared) Silver	13-07788	---
52MM	General (Oval) Gold	13-03214	---
58MM	General (Oval) Gold	13-07834	---
58MM	General (Oval) Gold	13-03215	---

PS

FLIGHT HELMETS - FLIGHT JACKETS

LIFT AVIATION FLIGHT HELMETS

Black | Blue | Matte/Black | Matte/White | Red | White | Yellow

This aviation helmet is made out of a fiberglass composite, utilizing Koroyd® and an anti-microbial comfort liner making it the lightest aviation helmet on the market. Features Fire Retardant trim and a FIDLOCK™ buckle system. Works with any aftermarket in helmet communications devices.
Features: • Airflow Comfort Liner - Is a breathable material that promotes air flow circulation and cooling. Made from FireBlock, a fire resistant composite, and Ariaprene, this moisture wicking liner draws sweat away from the wearers head. • Pure Optics Goggle - The Anti-fog UV lens provides premium optics, reduces glare and supports a wider field of vision. TPR molded Visor Retainers mounted on the shell keep the visor from sliding off the helmet. • Flow-Vents - Promotes ventilation and enhanced cooling with strategically engineered exhaust ports designed to pull cool air in and push hot air out. • Fidlock® - Quick ReleaseAllows the fasteners to be conveniently opened and closed single handedly. • PolyFusion Shell - Is the first line of impact defense and is designed to withstand the impact forces you'll encounter inside the cockpit. In addition, this shell is engineered to maintain structural integrity in extreme temperatures. • Headset integration - The AV-1 KOR's shell is designed to fit a wide variety of communication units to suit the wearers aviation needs. • Snap Lock TPR - This rear mounted TPR strap secures the shield and utilizes a button snap closure system. .....**---/ea.**

Color	Size	Part No.	Size	Part No.	Size	Part No.
Black	Medium	13-21573	Large	13-21572	X-Large	13-21574
Blue	Medium	13-21576	Large	13-21575	X-Large	13-21577
Matte Black	Medium	13-21583	Large	13-21582	X-Large	13-21584
Matte White	Medium	13-21587	Large	13-21586	X-Large	13-21588

Color	Size	Part No.	Size	Part No.	Size	Part No.
Red	Medium	13-21590	Large	13-21589	X-Large	13-21591
White	Medium	13-21593	Large	13-21592	X-Large	13-21594
Yellow	Medium	13-21598	Large	13-21595	X-Large	13-21599

SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE LIST OF HELMETS AND SIZING CHARTS.

FLIGHT OUTFITTERS BUSH PILOT WALLET

The Bush Pilot Wallet is canvas with leather accents, and has a clear window that can display both a Pilot's License and a Driver's License. The wallet comes in a Flight Outfitters-logoed tin box, perfect for storing charger cables and other miscellaneous items in a flight bag. Features include six credit card pockets and a divided bill fold.
Features:
• 6 credit card slots
• 2 clear ID holders
• Divided billfold
• Measures 3.5" x 4.5" x 1"
• Wallet is packaged in a custom tin for gift giving.

P/N 13-21893 ..... **---**

FLIGHT OUTFITTERS BUSH PILOT JACKET

This jacket is essential equipment for your next adventure, whether you're flying seaplanes in Alaska or splitting wood in your back yard. Its rugged exterior blocks out wind and rain, and can stand up to almost any abuse. But the Bush Pilot jacket is as comfortable on the inside as it is tough on the outside, with a quilted body lining and Sherpa accents to keep you warm. It's the bomber jacket for the modern pilot.

Small.....P/N 13-21539 ..... **---**
Medium.....P/N 13-21540 ..... **---**
Large .....P/N 13-21541 ..... **---**
X-Large.....P/N 13-21542 ..... **---**
XX-Large .....P/N 13-21543 ..... **---**

Classic. Authentic. Quality. Established in 1959 as a defense contractor for the US Government, Alpha Industries remains one of the largest manufacturers of cold weather outerwear. For over 35 years, Alpha Industries has continuously supplied the US Government and military forces throughout the world. Alpha is now recognized as the original and leading manufacturer of authentic military-inspired outerwear. Some jackets are made in the USA and some are imported.

TO ORDER FLIGHT JACKETS:
Choose jacket style and color desired and order by basic part number shown.
Complete the part number with size by adding -1 (Small), -2 (Medium), -3(Large), -4 (X Large), or -5 (XX Large).

CHILDREN'S JACKETS

YOUTH BOMBER JACKETS

These are a Flightline original. They're a reproduction of a classic bomber, complete with simulated fleece collar. They are sturdily made with many special touches that make it unique, such as an airplane zipper pull, authentic aviation patches & colorful graphic map liner.

Size		Part Number	Price
Toddler	Small	13-06432	---
Toddler	Medium	13-06428	---
Toddler	Large	13-06433	---
Boys	Small	13-06429	---
Boys	Medium	13-06430	---
Boys	Large	13-06435	---
Youth	Small	13-06427	---
Youth	Medium	13-06431	---
Youth	Large	13-06434	---

YOUTH BOMBER JACKETS

These are a Flightline original. They're a reproduction of a classic bomber, complete with simulated fleece collar. They are sturdily made with many special touches that make it unique, such as an airplane zipper pull, authentic aviation patches & colorful graphic map liner.

Size		Part Number	Price
Toddler	Medium	13-06446	---
Toddler	Large	13-06445	---
Boys	Small	13-06454	---
Boys	Medium	13-06451	---
Boys	Large	13-06449	---
Youth	Small	13-06448	---
Youth	Medium	13-06453	---
Youth	Large	13-06452	---

MA-1 JACKETS WITH PATCHES

This is a well made repro-duction of the famous MA-1 green nylon quilted. Same patches as our childrens bomber jacket. Made inq authentic Sage Green, reversible to high-visibility Indian Orange for use in emergencies. Assortment of historical flight patches sewn onto jacket is a sure winner with kids.

Size		Part Number	Price
Toddler	Small	13-06443	---
Toddler	Medium	13-06442	---
Toddler	Large	13-06444	---
Boys	Small	13-06439	---
Boys	Medium	13-06438	---
Boys	Large	13-06441	---
Youth	Small	13-06437	---
Youth	Medium	13-06436	---
Youth	Large	13-06440	---

VISIT WWW.AIRCRAFTSPRUCE.COM FOR PINK MA-1 JACKETS.

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

FLIGHT JACKETS

FLIGHT OUTFITTERS AIRFOIL JACKET

The Flight Outfitters Airfoil jacket keeps you warm without the bulk. Engineered for comfort in cooler conditions, it's the packable adventure layer you've been searching for.
Weighing in at 1.3 lbs, the jacket is lighter than most sweatshirts but is rugged enough for your next backwoods mission. It's insulated and quilted for extra comfort, and features a water-repellent coating that shrugs off light rain and snow. This versatile jacket can be worn with inner or outer layers and combines classic aesthetics with technical features.
The Airfoil jacket is designed to pack down into its own pocket when not in use, making it your go-anywhere layer.

Small.....P/N 13-24324 ..... ---
Medium.....P/N 13-24325 ..... ---
Large .....P/N 13-24326 ..... ---
X-Large.....P/N 13-24327 ..... ---
XX-Large .....P/N 13-24328 ..... ---

FLIGHT OUTFITTERS WOMEN'S CUT AIRFOIL JACKET

The Flight Outfitters Women's Airfoil Jacket keeps pilots warm without the bulk. Engineered for comfort in cooler conditions, it's the packable adventure layer you've been searching for.
Weighing in at under one pound, the jacket is lighter than most sweatshirts but is rugged enough for your next backwoods mission. It's insulated and quilted for extra comfort and features a water-repellent coating that shrugs off light rain and snow.
This versatile jacket can be worn with inner or outer layers and combines classic aesthetics with technical features. The Airfoil Jacket is designed to pack into its own pocket when not in use, making it your go-anywhere layer.

Small.....P/N 13-24622 ..... ---
Medium.....P/N 13-24623 ..... ---
Large .....P/N 13-24624 ..... ---
X-Large.....P/N 13-24625 ..... ---
XX-Large .....P/N 13-24626 ..... ---

BRAVO GOLF AVIATION WATCH - DISCOVERY

Say goodbye to bulky aviator watches!
Over 1800 pilots shared their thoughts on the features they wanted in a timepiece. We were all ears and crafted a unique watch that answers the desire for simplicity, durability and great style.
Quick local-to-GMT conversion, durable materials, and an anti-reflective sapphire crystal — all wrapped up in a slick and stylish design with the added option to engrave it with your airmen certificate number!

Discovery Classic .....P/N 13-25609 ..... ---
Discovery Slate.....P/N 13-25611 ..... ---
Discovery Lume.....P/N 13-25612 ..... ---

WOOD PROPELLER MAP CLOCK

The wooden shaped clock propellers Propellers are fabricated in Colombia through an artesanal process using the best and fine tropical Woods such as Cedar, Pine and Mirpo.
Specifications: • Length: 29.5 inches • Clock Diameter: 75mm • Weight: 1 pound • Material: Mirpo Wood • Functioning: 1 AA battery (not included)
P/N 13-24264 ..... ---

WOOD PROPELLER ALTIMETER CLOCK

The wooden shaped clock propellers Propellers are fabricated in Colombia through an artesanal process using the best and finest tropical cedar wood.
Specifications: • Length: 29.5 inches • Clock Diameter: 75mm • Weight: 1 pound • Material: Cedar Wood • Functioning: 1 AA battery (not included)
P/N 13-24263 ..... ---

FLIGHT OUTFITTERS AIRFOIL VEST

The Flight Outfitters Airfoil vest keeps you warm without the bulk. Engineered for comfort in cooler conditions, it's the packable adventure layer you've been searching for.
The vest is lighter than most sweatshirts but is rugged enough for your next backwoods mission. It's insulated and quilted for extra comfort, and features a water-repellent coating that shrugs off light rain and snow. This versatile vest can be worn with inner or outer layers and combines classic aesthetics with technical features.

Small.....P/N 13-24617 ..... ---
Medium.....P/N 13-24618 ..... ---
Large .....P/N 13-24619 ..... ---
X-Large.....P/N 13-24620 ..... ---
XX-Large .....P/N 13-24621 ..... ---

ULTRA FORCE SAGE CWU-45P FLIGHT JACKETS

Rothco's CWU-45P (Cold Weather Uniform) Flight Jacket is designed with a water repelling nylon outer shell and a matching quilted polyester liner for optimal warmth; making this the ideal cold weather jacket you can own.
Specifications:
• Rothco's CWU-45P Flight Jacket Is The Ideal Cold Weather Jacket • 100% Nylon Water Repellent Outer Shell • 100% Polyester Quilted Liner Keeps You Warm • 2" X 4 ¼" Hook And Loop Badge On Left Chest Is Great For Rank Or Insignia Patches • Two Fully Lined Cargo Pockets With Hook And Loop Closure • Zippered Utility Pocket And Pencil Pockets On Left Sleeve • Brass Zippers And Leather Pull Tabs

Sage		
Size	**Part No.**	**Price**
Small	14-02057	---
Medium	14-02058	---
Large	14-02059	---
X-Large	14-02060	---
XX-Large	14-02061	---
XXX-Large	14-02062	---

Black		
Size	**Part No.**	**Price**
Small	14-03438	---
Medium	14-03439	---
Large	14-03443	---
X-Large	14-03440	---
XX-Large	14-03441	---
XXX-Large	14-03442	---

AERO SQUADRON LEATHER FLIGHT JACKET

The leather is treated to make the jacket look as if it were issued to your grandfather in WWII and stored in the attic until this week, soft and comfortable. A great way to outfit Dad, Son and teenage Grandson.
Specifications:
• Lambskin bomber jacket • Authentic bomber styling with bi-swing back • Zip front • Two front zip pockets with side entry hand pockets • Cotton lining shows schematics of aircrafts • Inside zip pocket • Knit waist and cuffs • Brown Antique Lamb

Size	Part No.	Price
Small	13-07208	---
Medium	13-07209	---
Large	13-07210	---

Size	Part No.	Price
X-Large	13-07211	---
XX-Large	13-07212	---

AVIATOR PHONETIC SIGN

Aviator Phonetic Sign is made from steel with a hammered copper paint finish.
Specifications: 12"w x 38"h.....P/N 13-24342 ..... ---

PS

FLIGHT JACKETS

ULTRA FORCE BLACK MA-1 FLIGHT JACKET

This Black MA-1 Flight Jacket features a fully reversible Orange lining, ribbed collar, 100% Nylon water repellent outer shell, Poly fiberfill lining and 4 front slash pockets. Rothco's Flight Jacket has an extra full cut. Sizes and colors do vary.

Size	Part Number	Price
X-Small	14-03239	---
Small	14-03240	---
Medium	14-03241	---
Large	14-03242	---
X-Large	14-03243	---
XX-Large	14-03244	---
XXX-Large	14-03245	---

LARGE G-1 LEATHER FLIGHT JACKET

Reproduction of the coveted naval leather flying jacket featuring a genuine mouton fur collar.

Features:

• Premium Goatskin Leather • Bi-Swing Back for Free Range of Movement • Suitable for Mild or Colder Winter Climates ranging 25-40 Degrees Fahrenheit • Underarm Gussets • Knit Cuffs and Waistband • Legendary Pilot Jacket.....P/N 13-14998-L..... ---

FLIGHT OUTFITTERS APPAREL

MEN'S KODIAK JACKET

Chart a course and go in this water- and wind-resistant streamlined beauty. It's the kind of jacket you never leave the house without – an excellent companion for wherever the day takes you.

WOMEN'S KODIAK JACKET

Chart a course and go in this water- and wind-resistant streamlined beauty. It's the kind of jacket you never leave the house without – an excellent companion for wherever the day takes you.

MEN'S FAIRBANKS FLEECE

A sweater hybrid that boasts comfort and sleek styling in one, it's a perfect fit for the backtrails, crisp days on the lake, or even casual Friday.

WOMEN'S FAIRBANKS FLEECE

A sweater hybrid that boasts comfort and sleek styling in one, it's a perfect fit for the backtrails, crisp days on the lake, or even casual Friday.

LEATHER MA-1 JACKET

Since its introduction in 1949, the Leather MA-1 Jacket has perennially been in style.

BUSH PILOT LIGHTWEIGHT HOODIE

This comfortable lightweight tri-blend t-shirt with a build in hood is a great addition for year-round wear.

MOUNTAIN RANGE T-SHIRT

Whether your adventure takes you to the mountains, the sea, or both, you'll look good getting there in the Flight Outfitters Mountain Range T.

FLY IT LIKE YOU STOL IT T-SHIRT

STOL, an acronym for Short Take-Off and Landing, refers to the length of runway required for takeoffs and landings.

OFF GRID FLOATPLANE T-SHIRT

Off Grid T-shirt captures the spirit of adventure flying. Features a Deon Mitton photograph of a floatplane by a waterfall and the Flight Outfitters tagline – Pilot Your Own Adventure.

CLASS G ROAM T-SHIRT

When it's just you and wild blue you need a t-shirt that properly qualifies you to roam.

BUSH PILOT T-SHIRT

Whether you're an actual bush pilot, or you just dream of being one, this t-shirt honors the spirit of Bush Pilots.

PILOT STUFF T-SHIRT

Vintage cotton Flight Outfitters-style with a little nod to the flyboys and girls out there logging hours.

EXPEDITION T-SHIRT

This limited-edition T-shirt features a mountain design twist on the traditional Flight Outfitters logo.

OUTFITTERS T-SHIRT

Flight Outfitters always encourages you to pilot your own adventure.

GRAY TRUCKER HAT

The Flight Outfitter's Trucker Hat looks good and feels great and the front features the classic Flight Outfitters logo.

BROWN TRUCKER HAT

The Flight Outfitter's Trucker Hat looks good and feels great and the front features the classic Flight Outfitters logo.

SEE WEBSITE FOR SIZES AND PART NUMBERS FOR FLIGHT OUTFITTERS APPAREL.

PS

AIRCRAFT SPRUCE APPAREL

AIRCRAFT SPRUCE T-SHIRTS

Top quality 100% cotton shirt available in white or navy blue. These shirts feature Aircraft Spruce logo on the back and a small Aircraft Spruce Logo on the front left chest. A great looking shirt that will last for years. Order size by part no.:

Size	White	Price	Navy	Price
Small	13-02810	---	13-02047	---
Med.	13-02910	---	13-02048	---
Large	13-03010	---	13-02049	---
XL	13-03110	---	13-02050	---
XXL	13-03120	---	13-02051	---

AIRCRAFT SPRUCE CAPS

Our heavyweight 100% brushed cotton hat is perfect for aviators. Unlike other caps, ours features a no-button construction for comfort while wearing your headset. Low profile cap has aircraft design on front panel and Aircraft Spruce logo on back. A great looking top quality cap Stretch fit, one size fits all.

Black..... P/N 13-03895..... ---
Navy ..... P/N 13-11715..... ---

AIRCRAFT SPRUCE POLO SHIRTS

AIRCRAFT SPRUCE POLO SHIRT - These are the same high quality polo shirts worn by the Aircraft Spruce Staff at Oshkosh, Sun 'N Fun and other airshows. Made from Dry-Excel™ close-hole Micromesh, polyester knit, with a fine gauge rib-trim collar. Three button front, open hem sleeves, and split side welts make these polos great for everyone. These polos feature the Aircraft Spruce logo on the left chest. Machine washable.

Men's Black		
Size	**Part No.**	**Price**
Small	13-04729	---
Med.	13-04731	---
Large.	13-04732	---
X-LRG	13-04733	---
2XLG	13-04734	---

Men's White		
Size	**Part No.**	**Price**
Small	13-04730	---
Med.	13-01985	---
Large.	13-01982	---
XLRG	13-01979	---
2XLG	13-01976	---

Men's Light Blue		
Size	**Part No.**	**Price**
Small	13-04728	---
Med.	13-01986	---
Large.	13-01983	---
XLRG	13-01980	---
2XLG	13-01977	---

Men's Navy Blue		
Size	**Part No.**	**Price**
Med.	13-01984	---
Large.	13-01981	---
XLRG	13-01978	---
2XLG	13-01975	---

CUSTOM AIRCRAFT MODELS

Recreate your airplane into a beautifully detailed desktop replica. Our Premium Custom Made Models are built to your exact specifications – no detail will be spared. You can have ANY aircraft recreated into a museum quality desktop model with your paint scheme, logos, registration number or any other details and markings.

Complete your model with a fully customized stand including your choice of logo and a personalized inscription plaque. We offer over 3,000 different models – both military and civilian. Our desktop models are a maximum of 17" in either wingspan or length. Please allow approximately 6-8 weeks for delivery. 100% satisfaction guaranteed.

The Premium Plus Custom Models Include : Full Cockpit and Cabin detail – Instrument panel, yoke, seats, seatbelts and other fine details. Fully Customized Paint Scheme. 17" Maximum Wingspan or Length (whichever is greater). Antennas and Other VERY Fine Details. Premium Plus High Gloss Black Pedestal. Raised Brass Logo on Stand. Personalized Inscription Plaque. Military or Civilian. Your Paint Scheme. Your Registration Number. Your Airplane Recreated into a Beautiful Desktop Model. Built to Exact Specifications.

IMPORTANT INFORMATION : Please fill out the information form online in order to customize your model. Please send the form to contact information listed on the form. Along with information form filled out, we will need 5 photos of the top, front, back, and both sides of your aircraft emailed to us.

Custom Aircraft Models ..... P/N 13-06837 .....---
Premium Plus Custom Models ..... P/N 13-08050 .....---

PS

MARK 4 SILVER CROSS GOGGLES

All leather face mask, colour matched head band. Split lenses, bright polished and chrome plated frames. Sliding nose bridge adjustment.
Halcyon Aviator Goggles are Made in England. The frames are manufactured in brass to prevent corrosion, have Louves to prevent misting, and are hand stitched to the face Mask. The lenses are available in polycarbonate and are easily replaceable. Nose bridge adjustment is provided with a screw or sliding nose bridge for the ideal fit. A quality elasticated headband with snap on clip is fitted with all models.

P/N 13-06000 ..... ---

Replacement Lenses for Silver Cross Goggles

Clear, set of 2 ..... P/N 13-06100 ..... ---
Smoke, Set of 2 ..... P/N 13-06200 ..... ---

WORLD WAR II RAF FLYING GOGGLES

A faithful replica incorporating dark brown soft leather face mask stitched to the RAF blue painted solid brass frames. Fitted with traditional split lenses.
Halcyon Aviator Goggles are Made in England. The frames are manufactured in brass to prevent corrosion, have Louves to prevent misting, and are hand stitched to the face Mask. The lenses are available in polycarbonate and are easily replaceable. Nose bridge adjustment is provided with a screw or sliding nose bridge for the ideal fit. A quality elasticated headband with snap on clip is fitted with all models.

P/N 13-05860 ..... ---
Replacement Split Lenses - Clear ..... P/N 13-06100 ..... ---
Replacement Split Lenses - Tinted ..... P/N 13-06200 ..... ---

VINTAGE AVIATOR GOGGLES

Soft brown leather face mask, hand-stitched to silver painted solid brass frames. Screw adjustment on nose bridge.
Halcyon Aviator Goggles are Made in England. The frames are manufactured in brass to prevent corrosion, have Louves to prevent misting, and are hand stitched to the face Mask. The lenses are available in polycarbonate and are easily replaceable. Nose bridge adjustment is provided with a screw or sliding nose bridge for the ideal fit. A quality elasticated headband with snap on clip is fitted with all models. ..... P/N 13-06310 ..... ---
Replacement Split Lenses - Clear ..... P/N 13-06100 ..... ---
Replacement Split Lenses - Tinted ..... P/N 13-06200 ..... ---

PROPELLER LETTER OPENER

Put a new spin on opening the bills with this propeller letter opener. With its streamlined design of heavy zinc alloy and brushed-metal finish, it makes a beautiful object d'art for the desktop. Twirl it on its spinning metal base for a bit of fun. ..... P/N 13-16039 ..... ---

NOMEX TOUCH SCREEN COMPATIBLE FLYING GLOVES

These are the same as the regular Flying Gloves which have been worn by American military aviators since the 1960's, except these have a conductive fabric sewn into the tips (of both the left and right glove) of the middle finger, index finger, and thumb to allow for use with touch screen devices. The palms are made from soft capeskin (hair sheep) that gives you the fine sense of touch you need for flying. The back is made from soft knit of fire-resistant aramid fiber that stretches so the gloves fit snugly. They remain soft and pliable when they get wet. You can even wash them in warm water and hand soap. Measure in inches around the fullest part of your palm. Order the size closest to your hand measurement. Gloves stretch a little, so the fit should be snug.

Black			Tan		
Size	Part No.	Price	Size	Part No.	Price
5	13-21297	---	5	13-21287	---
6	13-21298	---	7	13-21289	---
7	13-21299	---	8	13-21290	---
8	13-21301	---	9	13-21291	---
9	13-21303	---	10	13-21292	---
10	13-21304	---	11	13-21293	---
11	13-21305	---	12	13-21294	---

	Royal Blue		Navy Blue		Sage	
Size	Part No.	Price	Part No.	Price	Part No.	Price
5	13-21269	---	13-21261	---	13-21278	---
6	13-21270	---	13-21262	---	13-21279	---
7	13-21271	---	13-21263	---	13-21280	---
8	13-21272	---	13-21264	---	13-21281	---
9	13-21273	---	13-21265	---	13-21282	---
10	13-21274	---	13-21266	---	13-21284	---
11	13-21275	---	13-21267	---	13-21285	---
12	13-21276	---	13-21268	---	13-21286	---

GENERAL UTILITY PLUS GLOVES

All-purpose and abrasion-resistant. This is the ideal performance work glove. Heavy duty non-slip reinforcement on the palm, fingers and thumb ensures lasting durability and grip. The ergonomic design reduces hand fatigue while enhancing wrist support. Features a terry cloth brow wipe on the thumb. This glove is ideal for any number of rugged applications.

Medium ..... P/N 13-09813 ..... ---
Large ..... P/N 13-09814 ..... ---
X-Large ..... P/N 13-09815 ..... ---

PS

PILOT SHIRTS / TIES / EPAULETS

Aircraft Spruce stocks a full line of authentic airline pilot shirts in Aviator, Pilot, and Commander styles. Aviator style is available in short and long sleeve, in white or blue. Pilot and Commander are available in short and long sleeve, in white. Available in a complete selection of sizes for men and women pilots.

VISIT WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE LISTING OF SIZES AND COLORS OF SHIRTS, PLUS TIES AND EPAULETS

AEROCREEPER - ADJUSTABLE CREEPER

Caster options include:
- Standard 3" x 13/16" Hard Rubber
- recommended for most uses on smooth cement floors
- 120 lb dynamic load per caster
- keeps the creeper low for low working positions
- smooth operation
- Heavy Duty polyurethane casters
- More resistant to embedding metal chips & rivets
- 250 lb dynamic load per caster
- 1-3/16" wide tread helps rolling on rough surfaces
- Available in 3 diameters
- 3" - Usually the best choice - keeps creeper low for low work
- 4" - better for rolling on rough surfaces but raises creeper 1-5/8" so it's not as good for low work
- 5" - better for rolling on rough suraces but raises creeper 2-5/8" so it's not as good for low work
- Locking Casters
- Prevents rolling
- Installed on front two casters

Features:
- Multi-level creeper with 10 quick adjustable heights
- Great for working under planes and other equipment
- Heavy Duty
- Holds over 350 lbs.
- Made in the USA

Specifications:
- Shipping Weight: 49 lb
- Box Dimensions: 57" x 24" x 8"
- Creeper Weight: 43 lb
- Dimensions in lowest position: 53"x18-1/2"x5-1/4"
- Seat height: 5-1/4" to 20-3/4"
- Approximate shoulder height when on creeper: 5-1/4" to 40"
- (The shoulder height dimension more accurately explains the range of work you can do with your hands. This allows you to comfortably work on surfaces up to 5 or 6 feet depending on how tall you are.)

Description	Part No.	Price
Standard - 3" Hard Rubber Casters	13-21329	---
Heavy Duty - 3" Front Locking Casters	13-21334	---
Heavy Duty - 4" Front Locking Casters	13-21335	---
Deluxe - 3" Casters	13-24008	---
Deluxe - 4" Casters	13-24009	---

RED VIPER AIRPLANE POSITIONER

Own a small airplane? Having trouble positioning it around in your hangar,garage,etc.? Try RED VIPER Positioners™ they really work! Will hold up to 6000 lbs on a 3 tire airplane. Extremely LOW to the ground (only 1/2 inches ground to dolly) so wheel assembly clearance & tire fenders are never an issue. The side panels are only 3 1/2 inches height. Supports tire thicknesses up to 9 inch & wheel diameter up to 26 inches. Just roll your airplane onto dollies & glide 360 degrees effortlessly.

P/N 13-17910 ..... ---

SHURE-STEP® II

The Shure-Step II is a 10 inch high step stool that will not tip or slip during use for aircraft maintenance. This step stool is rated for 500 pounds yet only weighs 10 pounds. Rubber pads on bottom prevent the step from scratching the paint on an aircraft. **Features**: • 6 large rubber pads on bottom • Very rough top surface to keep mechanics safe • Ice cleats keep the step from sliding during icy winter conditions • The Shure-Step II is a stackable step stool • Weight: 10 pounds

Yellow .....P/N 13-11219 ..... ---
Black .....P/N 13-23267 ..... ---

SHURE-STEP® 2-STEP STOOL

The 2-Step stool is 10 inches high, half is 6 inches high.

Features: • Durable, lightweight, and stackable • Shure-Step® will float • All Shure-Step® products are rated at holding 500 lbs. P/N 13-11585 ..... ---

SHURE-STEP® SENIOR STEP

The Senior Step is 6 inches tall, weighs 9 lbs., rated at 500 lbs. and measures 24" x 14". Step has a large, 10" x 20" black non-slip sandpaper surface on top of it.

Features: • Durable and lightweight • Senior Step can be stacked on top of the Shure-StepII® • Shure-Step® will float • All Shure-Step® products are rated at holding 500 lbs. Yellow.....P/N ..... ---

HORNET HEADWIND PERSONAL COOLING FAN

Features: • Seamlessly operates on both 12V and 24V systems • Newest EC/DC Technology, UL 94 Compliant • 120 CFM, 8000 RPM, Max. 2.5 Amps, 10V-30V DC • Specifications- 3.25" x 4.25", 2 LBS • 10' male cigarette style cord and Velcro strap • Includes draw-string storage bag • Designed and assembled in the U.S.A. - by pilots for pilots • Yoke or Glare Shield Mount.....P/N 08-19276 .....

ALUMINUM AIRCRAFT FUELING LADDER

Heavy duty aluminum fueling ladder perfect for aircraft fueling applications. Just the right height to put you in perfect position for low-wing or high-wing aircraft. Made of high quality aluminum and will stand the test of time.

Features: • Step Ladder • Ladder Height 5 ft. • Number of Steps 3 • Platform Width (In.) 13-1/2 • Height to Platform (Ft.) 3 • Bottom Width (In.) 20 • Base Spread (In.) 34 • Step Width (In.) 3 • Shipping Weight: 5.8 lbs • Anti-Slip Tread • Load Capacity (Lb.) 300 • Aluminum, ANSI Type 1A • Includes Heavy Duty Standing Platform

P/N 13-12017 ..... ---

HANGARBOT DOOR CONTROLLER

Enjoy the convenience of opening and closing your hangar door from the cockpit with the HangarBot Door Controller! Our premiere door controller system is custom made to the specifications of your hangar door. Compatible with nearly all electric and hydraulic Industrial doors with both momentary and continuous hold models as well, this device provides control and connectivity to your door from anywhere in the world. Tailored to your specific hangar door opening and closing it is as easy as a one-tap or continuous hold feature in our proprietary mobile application.

Note: This product is NOT compatible with manual latch hangar door.

Note:Your Door Controller is as unique as you are, and will need additional information in order to fulfill this order.

Specifications: • Battery Life: Internal rechargeable battery MicroUSB Cable included (~6 month battery life) • Mounting: Industrial Velcro • Shipping Dimensions: (L x W x H) 6.625" x 2.375" x 1.625" • Shipping Weight: 0.5 lbs.....P/N 11-18344 ..... ---

PS

VTS MULTIMEDIA TRAINING SOFTWARE

VTS training tools are priced affordably to allow each student to own a personal copy of the software.Each aircrafts systems are covered in detail far surpassing th general information provided in Pilots Information Manual. For example, the electrical schematic is presented on-screen just as it appears in the information manual. But instead of just sitting there looking mysterilous and intimidating, this virtual schematic comes to life with a click of the mouse. Controls and indicators from the cockpit are also available on-screen, creating an animated simulation of the entire system. Aircraft Systems - Warrior
P/N 13-03388 ..... ---

KITLOG PRO SOFTWARE

KitLog Pro is an organizational tool that allows the builder of any type of aircraft to create, archive, maintain, and display the entire building process. Whether your experimental aircraft is a plans-built EAA bi-plane, a Van's RV, a Glastar, or even a Lancair IV-P, KitLog Pro is the most efficient way to ensure that you meet the requirements of a builder's log for the certification of your homebuilt aircraft.
Features: • Complete Builder's log to satisfy FAA requirements •Detailed Expense Log •Test Flight Log • Maintenance Log • Weight & Balance Calculator .....P/N 13-03705 ..... ---

MAX TRESCOTTS G1000™ GLASS COCKPIT HANDBOOK

This edition includes dozens of tips and features for G1000 and Perspective glass cockpits, including Cirrus SR20 and SR22 Aircraft. Chapter 11 on Instrument Flying was completely rewritten to make it easier for pilots to understand the many nuances of using the G1000 and Perspective for instrument flight. There is a revolution sweeping through general aviation. In less than two years, the industry has converted to ship all new aircraft with glass cockpits, rather than traditional instrument panels. The most popular and comprehensive guide to operating these airplanes continues to be Max Trescott's G1000 and Perspective Glass Cockpit Handbook. This book makes it easy for you to quickly become an expert on operating and programming the G1000 and Perspective systems in any aircraft. Instructors agree that the cockpit is not an ideal learning environment. Reading this book, written by a Master Flight Instructor, is one of the most efficient and cost effective ways to learn the G1000 or Perspective before stepping into the cockpit for your first transition lesson. P/N 13-05533 ..... ---

IFLIGHTPLANNER SUBSCRIPTION

This is a subscription only*** Email address required for purchase.
iFlightPlanner is general aviation's most comprehensive suite of easy-to-use flight planning tools for private and corporate pilots. Featuring iFlightPlanner.com, mobile.iFlightPlanner.com and iFlightPlanner for iPad, iFlightPlanner allows pilots to intuitively plan routes, retrieve certified weather briefs, calculate weight & balance and file flight plans from any computer or their iPad. Note iFlightPlanner currently supports flight planning within the United States, however iFlightPlanner for iPad does support worldwide GPS tracking and color-coded METARs and TAFs.
Annual .....P/N 13-16354 ..... ---
Plus Annual .....P/N 13-23577 ..... ---

PANEL PLANNER
INSTRUMENT PANEL DESIGN SOFTWARE

Panel Planner software gives you the power to design and build instrument panels in record time. Simply drag full-color, photo-realistic instruments, avionics, and cockpit controls into place on an aircraft panel template or photograph. Panel Planner tracks total cost, total weight, and peak current, generates and equipment list, and even prints actual-size hole-cutting templates and color mock-ups.
PANEL PLANNER PRO (2.9 VERSION) - The PPJ 3.4 update has 100's of new panels and instruments. Please download the Excel spreadsheets. Hundreds of hours were spent reworking older panels to bring out more detail. Instrument manufacturers added like Lonestar that represent new, important auxiliary avionics and more smaller aircraft manufacturers' panel added. View 1600 instruments on 600 aircraft panels. Outputs DXF files for CNC, laser/water jet. Updates over the internet. Full-size cutting template printouts Measurement and alignment tools. Edit existing or create new panel templates. Multiple zoom and magnification levels. Actual-size color prints from desktop printers.
Panel Planner Pro for Windows .....P/N 13-44415 ..... ---
Panel Planner Pro for Macintosh .....P/N 13-06210 ..... ---

VOLAIR SIM COCKPIT CHASSIS

Note: This product is drop shipped direct from the manufacturer. If shipping international, inbound freight from manufacturer to our warehouse will apply in addition to outbound freight from our warehouse to destination.
This modern design is intended to take the flight simulator instruments off our desks and put them in a more realistic simulator environment. Although the pre-drilled installation holes are universal in nature they are also specific for the Saitek brand of instruments. You can adapt any piece or combination of pieces of flight sim gear to the basic chassis and go even further with a little imagination, a drill and a screwdriver. The high quality powdered tubular steel chassis built around the adjustable real world car racing seat is a true joy to experience. The pre-drilled mounting holes and innovative design features along with the universal adjustable mounts adds to the flexibility of the unit. The ability to mount up to a single 42 IN VESA spec monitor or three 19 – 30 IN widescreen monitors makes it an instant hit with all flight simmers..... P/N 13-14948 ..... ---

WEATHER STATEMENT GROUNDSCHOOL

A CD-ROM-based course on METAR's and TAF's. Nearly 2 hours of stunning, interactive training is provided. Promotes learning through human interaction—not just rote memorization. A remarkable feature is the interactive weather controls, which enable the user to "control the weather." Since weather codes are confusing to interpret, the user can click the "Speak-It" button to hear a verbal translation. This allows the user to correlate codes with a true, visual picture and understanding of the weather. This tutorial CD is perfect for all pilots, from students to rated pilots who wish to remain sharp and proficient. It's also ideal for airport personnel, dispatchers, and anyone else who needs to view aviation weather information.
Software .....P/N 13-05575 ..... ---
Download Version .....P/N 13-11404 ..... ---

HELICOPTER MANEUVERS GUIDE

The Maneuvers Guide provides step-by-step guidance with over 2 hours of video and animated media. Each maneuver is introduced by designated pilot examiner Ben Fouts. A detailed graphical animation follows, explaining the maneuvers step by step. Then there is also a cockpit view available showing the flown maneuver from pilot's perspective! Additionally you can profit from the "Examiner's Perspective" videos. Here you will get important information about common errors and see what an FAA examiner is looking for during the check ride. The software is a great learning tool for students and CFIs alike. System Requirements: • High Definition image quality • 1280x720pix resolution • Runs on MAC and PC (Mac OSX 10 / Windows Vista, 7) (requires Adobe Flash 11 and Adobe AIR - free downloads) • **Note**: This Software does not run on iPad or iPhone min. 1 GB RAM recommended.
P/N 13-12737 ..... ---

COMM 1 VFR/IFR RADIO SIMULATOR

Learning to fly? Not flown for a few years? Talking on the radio is one of the most important, but least emphasized, skills you need to fly safely in today's busy airspace. COMM1 VFR Radio Simulator is a proven tool for getting you up to speed on communicating professionally with ATC, Flight Services, Flight Watch, and other ground personnel. 6+ hours of training, comprehensive audio-visual tutorials, realistic flight scenarios, Interactive practice exercises w/ATC, playback your exchange w/ATC, and compare yourself to an expert. Works with MAC and Windows 8. 486/66 MHz PC processor. 16 MB RAM. 6 MB hard drive space. Windows 95. 4x speed CD-ROM drive. Sound Blaster-compatible sound card. Microphone and speakers (or headset). 800 x 600 resolution display with 256 colors. Works with MAC and Windows 8.....P/N 13-32221 ..... ---

LOGITECH EXTREME 3D PRO JOYSTICK

12 programmable buttons and 8-way rubber hat switch give you optimum control, personalized to your taste. Whether you're dropping bombs at a distance or firing guns in a dog fight, the stable and precise Extreme 3D Pro will have you dominating the enemy in no time. **Benefits:** • Dominate the skies or the ground with the control of 12 well-placed, fully programmable buttons and a rapid-fire trigger • Home in on your target with the deadly accurate direction control of the twist handle • Smooth and accurate throttle settings are a major bonus whether you're entering the fray or bugging out.....P/N 14-03430 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

HARDWARE OPTIONS FOR ON TOP AND IP TRAINER

CH THROTTLE QUADRANT USB

TWIN ENGINE. Fully programmable and featuring six physical dent axis' and up to 350 buttons. Throttle Quandrant USB takes you from the computer to the cockpit. **Features**: 6 Axis 12 Buttons (24 Button functions w/Control Manager Software (included), 6 Physical Detents, Fully Programmable with CH Control manager, Compatible with Windows 98, Windows ME, Windows 2000 & Windows XP. Compatible with all Windows based Games .....P/N 13-03377 ..... ---

TURTLE BEACH VELOCITYONE FLIGHT SIMULATOR UNIVERSAL CONTROL YOKE AND THROTTLE SYSTEM

Developed by world-class aeronautical engineers and pilots the Turtle Beach VelocityOne Flight Universal Control System offers the most immersive, authentic flying experience on the market. A true-to-life 180° yoke handle with built-in rudder controls provide precise, long-lasting control of any aircraft. The modular throttle quadrant with integrated trim wheel and included swappable throttle tops offers at-home aviators enhanced customization for both light and heavy aircrafts. The Flight Management Display and an authentic status indicator panel offers real-time alerts and critical flight details. Setup is easy with a simple USB connection for Xbox Series XIS & Xbox One or Windows PCs.
Software Compatibility: • Microsoft Flight Simulator, Sim software with USB controller support .....P/N 14-03437 ..... ---

TURTLE BEACH VELOCITYONE FLIGHT UNIVERSAL CONTROL SYSTEM + VELOCITYONE RUDDER BUNDLE

Make every flight more immersive with the VelocityOne™ Flight & VelocityOne™ Rudder bundle. Featuring a complete, universal design the VelocityOne™ Flight has all the controls you need to command the skies in confidence, and the VelocityOne™ Rudder pedals add to the realism with precise, long-lasting controls. Developed by world-class aeronautical engineers and pilots, the Turtle Beach VelocityOne Flight Universal Control System offers the most immersive, authentic flying experience on the market. A true-to-life 180° yoke handle with built-in rudder controls provide precise, long-lasting control of any aircraft. The modular throttle quadrant with integrated trim wheel and included custom lever handles offers at-home aviators enhanced customization for both light and heavy aircrafts. The Flight Management Display delivers on-the-fly information, while the status indicator panel provides real-time alerts on supported simulation platforms*. Setup is easy with a simple USB connection for Xbox Series XIS & Xbox One or Windows. *Full status indicator panel functionality and preset warnings currently only supported for Windows 10 & 11 PCs. These functions will be supported on Xbox Series XIS following a MSFS game update expected this summer.....P/N 14-03465 ..... ---

TURTLE BEACH VELOCITYONE™ FLIGHTSTICK UNIVERSAL SIMULATION CONTROLLER

The Turtle Beach® VelocityOne™ Flightstick for Xbox Series XIS, Xbox One & Windows PCs equips you with immersive, accurate controls for air and space flight simulation & combat games on Xbox and PC. Ultra-smooth main stick provides precise control, and two multi-function levers control main engine power and adjustment of control surfaces. A precise nano trim wheel allows for fine tuning of attitude and the OLED Flight Management Display makes for easy adjustments to control profiles. With 27 programmable buttons, a rapid-fire trigger and more, you're well-armed with a multitude of controls.
P/N 13-25551 ..... ---

TURTLE BEACH VELOCITYONE FLIGHT SIM UNIVERSAL RUDDER PEDALS

Take your flight simulation experience to a new level of realism with the Turtle Beach® VelocityOne™ Rudder Pedals for Windows 10 & 11 PCs, Xbox Series XIS* & Xbox One*. A smooth rudder axis, and non-contact hall-effect sensors on all axes deliver fluid movements and longer product life with zero maintenance versus standard potentiometers. Differential brakes allow tight turns and precise runway braking control while swappable springs, adjustable pedal width and shape provide added realism whether you're flying a light aircraft, heavy airliner, or fighter jet. Plus, multiple stable mounting solutions keep the pedals firmly planted on a variety of surfaces. *Requires VelocityOne™ Flight Universal Control System when in use with Xbox consoles. P/N 13-25550 ..... ---

TURTLE BEACH VELOCITYONE™ FLIGHTDECK

The Turtle Beach® VelocityOne™ Flightdeck is a premium simulation HOTAS system for Windows 10 & 11 PCs, designed for enthusiasts who demand the best. Inspired by advanced spacecraft and state of the art jet fighters to provide the ultimate HOTAS experience for all major combat simulation titles with the future in mind. Comprehensive controls including 15 axes and 139 programmable functions keep you immersed in the action, with your hands on the controls. World's first Flight Touch Display, and an OLED Head Up Display deliver unprecedented levels of performance optimization, and product customization. Plus, the Flight Hangar app for desktop provides even more product customization and RGB lighting adjustment. P/N 13-25552 ..... ---

TURTLE BEACH VELOCITYONE™ FLIGHT SIMULATOR STAND

Complete your flight or racing simulation setup with the Turtle Beach® elocityOne™ Stand for the VelocityOne™ Flight Universal Control System & Rudder Pedals and other flight & racing simulation accessories. Quick release latches let you adjust the height, angle, and length of the Stand, plus it is fully reversible with upper and lower mounting platforms that can tilt to adapt to your size and environment. Solid steel mounting platforms are predrilled to work with VelocityOne™ Flight & VelocityOne™ Rudder products and are also compatible with other 3rd party simulation accessories. Anti-wobble, adjustable rubber feet keep the Stand firmly planted, and a convenient fold flat design lets you easily stow away your setup.
P/N 13-25549 ..... ---

PS

REDBIRD FLIGHT SIMULATORS

THE JAY BY REDBIRD

Start Up-procedure: 1.Put it on a table. 2.Turn it on. 3. Fly. Practicing at home is a great idea for pilots. You can keep your skills sharp and your mind in the cockpit even when you can't make it to the airport. In reality, however, two obstacles deny a majority of pilots effective home flight simulation: purchasing and assembling the right hardware requires a PhD in computer know-how, and after flying around the virtual world for a bit, most pilots get bored. Redbird Flight Simulations, the world leader in FAA-approved flight simulators for general aviation, has addressed both these issues with the Jay. The Jay contains the monitor, speakers, computer and flight controls—all-in-one unit that is ready to fly right out of the box. It boots up directly to a launch screen where you can select your airplane, airport and weather conditions. Push the green button and you're on a runway and ready to go. **Scenario-based training? It's built in.** The Jay is more than a simulator—it's a flight experience device supporting training, proficiency, and just plain fun! In addition to the free flight mode where you select the aircraft and conditions, the Jay has a scenario mode where you can load a preset scenario and fly it. A scenario could range from a simple flight challenge to a complex flight with multiple potential outcomes. For example, a magazine article on an aircraft accident could be linked to a mission where the Jay owner flies that scenario. Redbird Media, a company specializing in curriculum for simulation, will create many of these scenarios in partnership with AOPA Pilot and other training outlets and magazines. The scenario exchange will be open to any company wishing to create scenarios for the Jay. A one-button update on the Jay will load the latest scenarios available for free or that the owner has purchased. The Jay home screen also has a built-in web browser to access scenario add-ons, such as video, or download simulator extensions such as additional aircraft or scenery. The Jay chassis is metal, not plastic. Control smoothness is paramount. The parts should last indefinitely. In addition, there are pilot-centric touches.....P/N 13-15906 ..... ---

OPTIONS

Description	Part No.	Price
Redbird Wireless Adapter For The Jay	13-15874	---
Redbird RD1 Rudder Pedals	13-15866	---
Extended Warranty - Jay (12 Months) S-1105	13-22370	---
Extended Warranty - Jay (24 Months) S-1106	13-22371	---

THE JAY VELOCITY EDITION BY REDBIRD

The Jay Velocity Edition contains all of the standard Jay features, while adding upgraded computing power and robust components to allow it to be used in demanding environments like middle and high schools, museums, and public access kiosks. The clean-sheet design prioritizes one thing for the classroom: Get the student learning with a minimum of fuss. There are no peripherals to configure, no systems to install. Take it out of the box, plug it in, and turn it on. Now say, "preflight complete." The Jay contains the monitor, speakers, computer and flight controls—all-in-one unit that is ready to fly right out of the box. It boots up directly to a launch screen where you can select your airplane, airport and weather conditions. Push the green button and you're on a runway and ready to go .....P/N 13-20712 ..... ---

Extended Warranty - Jay Velocity (12 Months) S-1107.....P/N 13-22372 ..... ---

Extended Warranty - Jay Velocity (24 Months) S-1108.....P/N 13-22373 ..... ---

REDBIRD ALLOY FLIGHT SIMULATOR BUNDLE

A good flight simulator is more than just a toy; it can improve your flying skills and keep you current. But many inexpensive yokes and rudder pedals don't accurately simulate what flying is really like.

• Virtually indestructible metal construction – never worry about broken parts • Accurate feel - full control deflection without increasing spring tension • Set the perfect height – controls can be attached above or below a table • Easy setup – plug and play compatibility with Microsoft Flight Sim X, X-Plane, and Prepar3d • USB connectivity ensures that these controls compatible with most flight simulation software devices running Lockheed Martin Prepar3d, X-Plane, and Microsoft Flight Simulator (including Microsoft Flight Simulator 2020) • Yoke includes electric trim switch, push-to-talk button, and autopilot disconnect button • Throttle quadrant includes throttle, propeller, and mixture levers, plus flap and gear handles. **In The Box**: • 1 - Flight Simulation Yoke YK1 • 1 - Rudder Pedals RD1 • 1 - Single Engine Vernier Throttle Quadrant TH1

P/N 13-23275 ..... ---

REDBIRD ALLOY YK2 FLIGHT SIMULATION SIDE YOKE

Elevate your home flight simulator setup with the Alloy YK2, a professional-grade flight simulator yoke designed to simulate the functionality and performance you know and love from your Cirrus SR22 or SR20. The Alloy YK2 replicates the unique side stick of a Cirrus cockpit, giving you easy and familiar command of your simulated aircraft. It includes all the same buttons and switches you are accustomed to using as the pilot in command of a Cirrus airplane, including four-way trim, push-to-talk, and autopilot disconnect.....P/N 13-24027 ..... ---

REDBIRD ALLOY TH4 FLIGHT SIMULATION THROTTLE CONTROLLER

The Alloy TH4 is a professional-grade throttle controller that gives a home flight simulator setup the same look, feel, and performance characteristics as the throttle quadrant of a Cirrus SR20 or SR22. It is designed to deliver all the features pilots enjoy in their Cirrus cockpit, including a takeoff/go-around (TOGA) button, flaps switch, fuel pump switch, and fuel tank selector lever. The Alloy TH4 even provides an adjustable friction knob that enables pilots to accurately simulate the throttle and mixture motion they experience in their aircraft.

The Alloy TH4 is the perfect companion for recurrent and transition training. It represents the details of a Cirrus throttle quadrant precisely — helping pilots become proficient at operating within the distinct cockpit configuration of a Cirrus .....P/N 13-24028 ..... ---

OTHER REDBIRD SIMULATORS

Part No.	Model Number	Description	Starting Price
13-15889	Redbird LD	Wrap around visuals without cockpit enclosure	---
13-15890	Redbird SD	Enclosed similar to FMX, but no motion	---
13-15891	Redbird FMX	Full motion, enclosed cockpit, flagship model	---
13-15892	Redbird MX2	Full motion, compact for limited space	---
13-15893	Redbird MCX	Full motion, ideal for CFI, CFII, CRM Training	---
13-15902	Redbird XWIND	Full motion, teaches cross wing techniques	---
13-15903	Redbird XWIND SE	Full motion, with more LCD exterior visuals	---
13-15870	Redbird O-1123	TD & TD2 Sims. Come with a single screen. This kit adds 2 side screens for a panoramic view.	---
13-15860	Redbird O-1109	Redbird Table For TD And TD2	---

REDBIRD ALLOY SIMULATOR CONTROLS

Part No.	Description	Price
13-19645	Redbird Control Yoke	---
13-19642	Redbird Single Engine Vernier Throttle Quadrant	---
13-19643	Redbird Twin Engine Lever Throttle Quadrant	---

Part No.	Description	Price
13-19644	Redbird Single Engine Lever Throttle Quadrant	---
13-22368	Redbird Alloy Throttle Mounting Arms	---
13-22369	Redbird Corvus Foreflight Ads-B Connection	---

PS

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Please view our website for current prices.

SAITEK SIMULATOR PRODUCTS

SAITEK X52 FLIGHT CONTROL SYSTEM

Enhanced game play through intuitive Multi-Function display (MFD). Illuminated buttons and MFD - ideal for low light environments. Rubber grips and ergonomic design for increased comfort and fatigue-free gaming. Includes Roger Wilco Chat software - the ideal accompaniment for on-line multiplayer gaming. .....P/N 14-02845 ..... ---

SAITEK X52 PRO FLIGHT SYSTEM

The MFD screen is now interactive. Now you can display important in-game information such as the Radio Stack and interact with your games directly. Shipping with support for Microsoft's Flight Simulator X, there's also a Software Development Kit (SDK) included which allows budding programmers to create interactions with their own favorite games.....P/N 14-00649 ..... ---

SAITEK PRO FLIGHT YOKE SYSTEM

Meets the exacting needs of the true flight simulation enthusiast. Stainless steel shaft, ergonomic controls, integrated chronograph and separate throttle quadrant. Use the integrated USB Hub to easily connect other parts of the Saitek Pro Flight range of products, such as additional Pro Flight Throttle Quadrant or Pro Flight Instrument Panel (sold separately)..P/N 14-00598 ..... ---

SAITEK X-56 PRO FLIGHT RHINO H.O.T.A.S. SYSTEM

Evolving the H.O.T.A.S.
Designed to meet the needs of the re-emerging space simulation genre, Saitek introduces the new X-56 Rhino H.O.T.A.S. System. Built to the same exacting standards of Saitek's award-winning Pro Flight accessories range, the X-56 Rhino delivers a multitude of customizable options.
Compatible Simulators: • Elite: Dangerous • Star Citizen • Flight Simulator X • Flight Simulator 2004 • X-Plane 10 • X-Plane 9 • DCS World .....P/N 14-03295 ..... ---

SAITEK PRO FLIGHT SIMULATOR BUNDLE

The Saitek Pro Flight Yoke System is highly engineered to meet the exacting needs of the true flight simulation enthusiast. Stainless steel shaft, ergonomic controls, integrated chronograph and separate throttle quadrant ensure a smooth, accurate and totally realistic flying experience.
Use the integrated USB Hub to easily connect other parts of the Saitek Pro Flight range of products, such as additional Pro Flight Throttle Quadrant or Pro Flight Instrument Panel (both sold separately).
Complete your virtual pilot's controller setup and take flight simulation reality to the next level with the Pro Flight Rudder Pedals.
Control the rudder and toe brakes of your aircraft with your feet - just like real pilots. Adjustable, smooth action gives you optimum control and realism, and brings you even closer to the experience of flying a real aircraft.....P/N 13-23276 ..... ---

SAITEK PRO FLIGHT THROTTLE QUADRANT

Upgrade your flight simulation experience with the Saitek Pro Flight Throttle Quadrant. This makes an ideal addition to the Saitek Pro Flight Yoke System to expand the number of controls for your flight simulation setup.
Set the levers to control aircraft throttles, adjust elevator trim, fuel mixture or even to engage reverse thrust during landing. The Pro Flight Throttle Quadrant will work in any major flight simulation to give you all the control you need.....P/N 14-00601 ..... ---

SAITEK PRO FLIGHT RUDDER PEDALS

Complete your virtual pilot's controller setup and take flight simulation reality to the next level with the Pro Flight Rudder Pedals. Control the rudder and toe brakes of your aircraft with your feet - just like real pilots. Adjustable, smooth action gives you optimum control and realism, and brings you even closer to the experience of flying a real aircraft.....P/N 14-00602 ..... ---

SAITEK PRO FLIGHT SWITCH PANEL

Upgrade your flight simulation experience for Microsoft Flight Simulator X with the Saitek Pro Flight Switch Panel. Whether attached to the Saitek Pro Flight Yoke System, free standing on a desk or mounted into your own cockpit setup, the Pro Flight Switch Panel is an ideal way to expand the number of controls for your flight simulation setup.....P/N 14-00714 ..... ---

SAITEK PRO FLIGHT RADIO PANEL

Upgrade your flight simulation experience for Microsoft Flight Simulator X with the Saitek Pro Flight Radio Panel. LED displays work fully in real time with Flight Simulator X and 2004, removing the need to bring the radio stack up on screen. A set of switches and LED displays for use in controlling various aspects of flight simulation. COM1 / COM2 / NAV1 / NAV2 function. DME / ADF / XPDR functions .....P/N 14-00969 ..... ---

SAITEK PRO FLIGHT MULTI-PANEL

Upgrade your flight simulation experience for Microsoft Flight Simulator X with the Saitek Pro Flight Multi Panel. LED displays work fully in real time with Flight Simulator X and 2004, removing the need to bring the autopilot up on screen. A set of switches and LED display for use in controlling various aspects of flight simulation. Full Autopilot panel with associated setting controls: Auto Throttle, Flaps, Elevator Trim wheel ...P/N 14-00968 ..... ---

SAITEK PRO FLIGHT INSTRUMENT PANEL

Featuring a stunning 3.5" colour LCD screen, the Instrument Panel can display 6 of the main cockpit instrument panels from Microsoft's Flight Simulator X. Reacting and updating in real time with events from the game, the Instrument Panel brings an extra level of realism to your flight simulation setup. Choose between 6 different flight instruments at the touch of a button: Altimeter, Attitude Indicator Airspeed Indicator Compass Turn and Slip indicator, Vertical Speed.....P/N 14-00870 ..... ---

PS

HONEYCOMB ALPHA FLIGHT CONTROL YOKE AND SWITCH PANEL

The Honeycomb Alpha Flight Control is the most advanced flight simulation system available to simmers, flight students, and pilots for setup at home and features a complete backlit switch panel and ignition switch. It was designed and developed in California by pilots and aerospace engineers to ensure the most realistic flight experience.

P/N 13-22139 ..... ---

HONEYCOMB BRAVO THROTTLE QUADRANT

The Bravo Throttle Quadrant is an all-in-one cockpit system featuring a fully configurable throttle setup. Six general aviation and six commercial levers are included and can be arranged from single-engine general aviation all the way up to four-engine commercial aircraft. The commercial levers include flaps, spoilers, and functional thrust reversers while the general aviation levers include power, prop, and mixture and can engage thrust reverse for turbo props as well. The throttle also features multiple cockpit components including an autopilot panel with backlit buttons, annunciator panel with 14 warning lights, Gear Lever with landing gear indicator lights, general aviation flap lever and a trim wheel. The throttle also comes with Honeycomb's dual mounting system which includes two heavy duty steel clamps and a large 3M® Micro-Suction Pad that can be used as a clamp-free solution. The Honeycomb Bravo Throttle Quadrant was designed to ensure the most versatile flight simulation experience possible.

Bravo Throttle Quadrant ..... P/N 13-23178 ..... ---
Bravo + Airbus Throttle Pack ..... P/N 13-24012 ..... ---
Bravo + Alpha Yoke ..... P/N 13-24011 ..... ---

HONEYCOMB ALPHA YOKE / BRAVO THROTTLE DUST COVER

The Dust Cover by Honeycomb Aeronautical is designed and made for both the Alpha Flight Controls and Bravo Throttle Quadrant. The cover itself protects from any unwanted dust or potential damage while preserving the condition of the Yoke or Throttle. Easily apply and remove the cover when mounted on the desk or use as a storage solution when not in use.

P/N 13-23719 ..... ---

HONEYCOMB CHARLIE RUDDER PEDALS

The Honeycomb Charlie Rudder pedals complete the Honeycomb flight simulation system. The base includes large rubber grip pads and reversible carpet spikes.

P/N 13-23862 ..... ---

HONEYCOMB THROTTLE PACK FOR AIRBUS™

The Throttle Pack is an accessory for the Airbus™ A319-A380.
Note: Bravo Throttle Quadrant Sold Separately*.
Model: A319-A380

P/N 13-23173 ..... ---

HONEYCOMB ALPHA YOKE + BRAVO THROTTLE QUADRANT + CHARLIE RUDDER PEDALS FLIGHT SIMULATION BUNDLE

The Honeycomb Flight Simulation bundle combines an Alpha Flight Controls Yoke & Switch Panel with the Bravo Throttle Quadrant and the Charlie Rudder Pedals to provide an all-in-one cockpit system. This combination provides the most advanced flight simulation system which is available to simmers, flight students and pilots. The Alpha yoke has a realistic full 180° yoke rotation and a solid steel shaft with dual linear ball bearings that provide smooth control with a dampened, self-centering mechanism and no center detent or dead zone. The Bravo Throttle Quadrant provides six general aviation and six commercial levers that can be arranged from single-engine general aviation all the way up to four-engine commercial aircraft. The Charlie Rudder Pedals brings the final piece to complete the full Honeycomb Flight Simulation Setup.

P/N 13-25786 ..... ---

CH VIDEO GAME JOYSTICKS

Your pulse quickens, your muscles tighten, adrenaline surges through your veins as you engage enemy aircraft in gut wrenching aerial combat. With CH Products simulation controllers, the realism of your next combat mission ascends to new heights.

FLIGHTSTICK PRO

• Windows 98, ME, 2000, XP, XP 64bit, Vista • 3 axes and 12 buttons – X, Y, and Z axes for Aileron, Elevator, and Throttle control – 4 traditional push buttons – 1 eight direction POV HAT switch • Total of 80 programmable functions with Control Manager software (included) • Simple ambidextrous handle • Dual rotary trim wheels for precise adjustment of ailerons and elevators • Side Throttle wheel • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty

P/N 13-05613 ..... ---

FLIGHTSTICK

• Windows 98, ME, 2000, XP, XP 64bit, Vista • 3 axes and 24 buttons – X, Y, and Z axes for Aileron, Elevator, and Throttle control – 3 traditional push buttons – 1 mode switch button – 3 four direction HAT switches – 1 eight direction POV HAT switch • Total of 176 programmable functions with Control Manager software (included) • Three color mode indicator LEDs on base • Realistic F-16 handle • Dual rotary trim wheels for precise adjustment of ailerons and elevators • Side Throttle wheel • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty.

P/N 13-05615 ..... ---

FLIGHT SOUND X - AVIATION HEADSET / USB ADAPTER

Just plug and play…and you're ready to go! Flight Sound X is designed to be as easy to use as possible - no additional software, no batteries, no external power sources - just one standard USB cable. Just 'plug and play'! When users have finished with the device, simply unplug it, and the computer will revert to its original audio settings. The Flight Sound X adapter is a great accessory for any pilot!

Features: • USB 1.1 and 2.0 compatible • Plug and Play with Windows 7/ Vista/XP and Mac OS X • Uses standard General Aviation headset connectors (PJ-068 and PJ-055B) • Supports headset impedances of 100 to 600 Ohms • Supports Mono and Stereo Headsets • Compatible with standard microphone types (electret, dynamic and powered dynamic)

Pilots Headset USB Adapter ..... P/N 13-09050 ..... ---
Chopper / Military Pilots UCB adapter ..... P/N 13-09051 ..... ---

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APPROACH CHART PROTECTOR

Protection plus. Transparent plastic envelopes protect your most frequently used approach charts, while accepting marks from almost any writing instrument. Easy Erase. Set of 10.

P/N 13-21748 ..... ---

JEPPESEN BINDERS

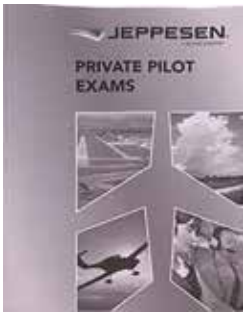
Functional, durable, protects & lasts. Jeppesen's leather binders are made from top-grain cowhide and include steel hinges and safety locks to secure the rings. The sturdy Duraflo binder has the look and the feel of our leather binders. The flo-mold process laminates and binds sturdy, ethylene acetate with a clear tough suryln outer surface. Available in brown and black.

LB-2 Leather, 2" Rings, Stay-Open Bar. .....P/N 13-21738 ..... ---

PLASTIC BINDERS

PB-2 Denlon wrapped, 2" Rings, No Stay-Open Bar.

P/N 13-21744 ..... ---



JEPP PRIVATE PILOT EXAM BOOKLET

The Private Pilot Exam Booklet is a product that contains all the written exams that are needed to complete the Jeppesen Private Pilot course under 14 CFR Part 141. This booklet combines the Private Pilot Pre-Solo Written Exam, Private Pilot Stage Exams, and Private Pilot End Of Course Exams into one single product.

P/N 13-19627 ..... ---

CHARTABS

Quick reference tabs labeled, "Departure, Destination and Alternate" help you find your place fast. Plastic color coded.

Set of 3 .....P/N 13-21752 ..... ---

MULTI-TABS

Make your binder work like you do. Write you own labels to separate you contents. Erasable, reusable. Lines for notes. Set/13

P/N 8455 ..... ---

PREMIUM EPAULETS

The board for these epaulets are made of 100% Polyester and the finest braided bars available. Epaulets are available with a Black or Navy base and a Metallic Gold, Metallic Silver, Nylon Gold, or Nylon Silver stripe. Price per pair.

Part No.	Description	Price
14-00421	1 Stripe - Gold Metallic Navy	---
14-00422	1 Stripe - Gold Nylon Black	---
14-00423	1 Stripe - Gold Nylon Navy	---
14-00424	1 Stripe - Silver Metallic Black	---
14-00425	1 Stripe -Silver Metallic Navy	---
14-00426	1 Stripe - Silver Nylon Black	---
14-00427	1 Stripe -Silver Nylon Navy	---
14-00420	1 Stripe - Gold Metallic Black	---
14-00412	2 Stripe - Gold Metallic Black	---
14-00413	2 Stripe -Gold Metallic Navy	---
14-00414	2 Stripe -Gold Nylon Black	---
14-00415	2 Stripe -Gold Nylon Navy	---
14-00416	2 Stripe -Silver Metallic Black	---
14-00417	2 Stripe - Silver Metallic Navy	---
14-00418	2 Stripe - Silver Nylon Black	---
14-00419	2 Stripe - Silver Nylon Navy	---
14-00241	3 Stripe - Gold Metallic Black	---
14-00405	3 Stripe - Gold Metallic Navy	---
14-00406	3 Stripe -Gold Nylon Black	---
14-00407	3 Stripe -Gold Nylon Navy	---
14-00408	3 Stripe -Silver Metallic Black	---
14-00409	3 Stripe -Silver Metallic Navy	---
14-00410	3 Stripe -Silver Nylon Black	---
14-00411	3 Stripe -Silver Nylon Navy	---
14-00397	4 Stripe - Gold Metallic Black	---
14-00399	4 Stripe - Gold Metallic Navy	---
14-00401	4 Stripe -Gold Nylon Black	---
14-00402	4 Stripe -Gold Nylon Navy	---
14-00398	4 Stripe -Silver Metallic Black	---
14-00400	4 Stripe -Silver Metallic Navy	---
14-00403	4 Stripe -Silver Nylon Black	---
14-00404	4 Stripe -Silver Nylon Navy	---
14-00397	4 Stripe - Gold Metallic on Black	---
14-00398	4 Stripe - Silver Metallic on Black	---
14-03296	4 Stripe - White Nylon on Black	---
14-00399	4 Stripe - Gold Metallic on Navy	---

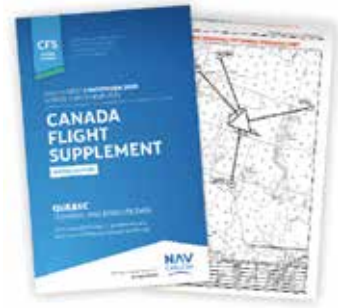
PS

VFR WALL PLANNING CHART

U.S. VFR Wall Planning Chart is designed for VFR preflight planning and provides aeronautical and topographic information of the conterminous U.S. The aeronautical information includes airports, radio aids to navigation, Class B airspace and special use airspace. The topographic information includes city tint, populated places, princi-pal roads, drainage patterns and shaded relief. This chart, 59x36 inches flat, is updated annually.

P/N 13-14786 ..... ---

CANADA FLIGHT SUPPLEMENT IFR CHART



The Canada Flight Supplement is a joint civil/military publication. It contains information on Canadian and North Atlantic aerodromes and is used as a reference for the planning and safe conduct of air operations.

Features:

• General: Tables, legends and associated information pertinent to interpretation of the supplement • Aerodrome Directory • Planning • Radio Navigation and Communications • Military: Flight procedures and data, including sections on procedures for flight in the USA, North Atlantic and Alaska, air/ground communications and military training routes/areas. • Emergency procedures. • The Canada Flight Supplement, measuring 5 1⁄4 by 8 1⁄4 inches, is available in English or a bilingual format. Data for the province of Quebec and the National Capital Region are presented in French in the bilingual edition.

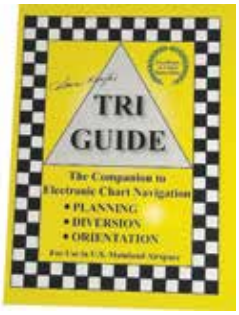
English Version .....P/N 13-04424 ..... ---

HOMEBUILDERS HEADQUARTERS SINCE 1965 WITH PROP LOGO

This Homebuilders Headquarters since 1965 prop logo vintage metal sign is made in the United States using 24 gauge American steel and a process known as sublimation, where the image is baked into a powder coating for a durable and long lasting finish. A vintaging process is then preformed by hand to give this sign an aged look and feel. The edges of this sign are rounded for extra rigidity and the corners are drilled and riveted for easy hanging. Vintage Sign.

11.5" x 17.5".....P/N 13-17902 ..... ---

TRI GUIDE THE COMPANION TO ELECTRONIC CHART NAVIGATION



Howie Keefe's Tri Guide is the perfect companion to Electronic Chart Navigation. This guide addresses: • Planning • Diversion • Orientation • Airport & VOR Decode (ID to Name) Plus Contact Frequency • Reservation Numbers and even Hotel & Motel Numbers • For use in U.S. Mainland Airspace.

P/N 13-12653 ..... ---

FULL-COLOR CLOUD CHART

"Clouds: A Guide to the Sky" shows full-color photos of 30 different cloud formations, (with descriptions) and the weather associated with each. 25" x 37" on heavy stock. A beautiful photographic documentation of cloud formations and what those formations mean in terms of weather prediction. This colorful poster makes a perfect wall hanging for reference throughout the year or use when presenting weather concepts to students. The base of the chart provides additional detailed weather information.

P/N 13-14758 ..... ---

3-D AERONAUTICAL CHARTS

The precisely molded 3D shape allows pilots to see and feel the terrain shape and clearly understand how it relates to the airspace and flight. Pilots will value referencing this chart for flight planning, training, and as a general conversation piece, whether hung on a wall of an office, hangar, or home. This chart is made with a digital inkjet printing process on a rigid plastic film, which is then molded to a precise terrain model.

Los Angeles.....P/N 13-09595 ..... ---
Southern Sierra Nevada.....P/N 13-09597 ..... ---
San Fransisco / Tahoe .....P/N 13-09596 ..... ---
Denver .....P/N 13-10006 ..... ---
Portland .....P/N 13-11714 ..... ---
Seattle .....P/N 13-11713 ..... ---

I'D RATHER BE SHOPPING AT AIRCRAFT SPRUCE TREE LOGO

This I'd rather be shopping at Aircraft Spruce tree logo vintage metal sign is made in the United States using 24 gauge American steel and a process known as sublimation, where the image is baked into a powder coating for a durable and long lasting finish. A vintaging process is then preformed by hand to give this sign an aged look and feel. The edges of this sign are rounded for extra rigidity and the corners are drilled and riveted for easy hanging. Vintage Sign.

11.5" x 17.5".....P/N 13-17908 ..... ---

PS

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AERONAV VISUAL NAVIGATION CHARTS

AERONAV SECTIONAL CHARTS

Sectional aeronautical charts are designed for visual navigation of slow to medium speed aircraft. The topographic information featured consists of the relief and a judicious selection of visual checkpoints used for flight under visual flight rules. The checkpoints include populated places, drainage patterns, roads, railroads, and other distinctive landmarks. The aeronautical info on Sectional Charts includes visual and radio aids to navigation, airports, controlled airspace, restricted areas, obstructions, & related data. (Scale 1"=6.86 nm/ 1:500,000. 60"x20" folded to 5"x10") Revised semi-annually, except most Alaskan charts are revised annually.

Sectional & VFR Terminal Charts for conterminous United States, Hawaii, Puerto Rico and Virgin Islands

Sectional Charts.....P/N 8403 ..... ---
Set of 37 charts (w/o AK & HI).....P/N 8557 ..... ---

NOTE: When ordering charts, complete part no. with first 3 letters of chart title. Ex.: Seattle sectional is P/N 8403SEA.

For Subscription service: Add -SUB (example: 8403SEA-SUB) and a new chart will be shipped & billed to you automatically at every revision until you cancel the subscription. Subscription chart orders require credit card no. on file.

Seattle	Klamath Falls	Denver	Dallas/Fort Worth	Brownsville	Seward	McGrath
Great Falls	Cheyenne	Wichita	Memphis	Miami	Juneau	Anchorage
Billings	Omaha	St. Louis	Atlanta	Hawaii	Ketchikan	Salt Lake City
Twin Cities	Chicago	Cincinnati	El Paso	Kodiak	Cape Lisburn	Kansas City
Green Bay	Detroit	Washington	San Antonio	Dutch Harbor	Point Barrow	Charlotte
Lake Huron	New York	Los Angeles	Houston	Aleutian Islands	Fairbanks	Cold Bay
Montreal	San Francisco	Phoenix	New Orleans	Western	Dawson	
Halifax	Las Vegas	Albuquerque	Jacksonville	Whitehorse	Bethel	

CHART MASTER

Chart Master is Aircraft Spruce's online chart selection program designed to tell you exactly which aviation charts you will need for the route you intend to fly. Just plug in the 3 letter airport identifiers for your departure and destination airports, and Chart Master will provide you with a list of all of the charts needed for your route. Select VFR (sectional, terminal, WAC, AFD, or IFR (Low altitude enroute) or both and order any or all of the charts listed by Chart Master. This program is available on line at www.aircraftspruce.com.

AERONAV VFR TERMINAL AREA CHARTS

Terminal Area Charts depict the airspace designated as Class B Airspace. The information found on these charts, while similar to that found on Sectional Charts, is shown in much more detail because of the larger scale. These charts should be used by pilots intending to operate from airfield within or near a Terminal Control Area or an Airport Radar Service Area. Locations of Terminal Area Charts are indicated by a • on the Sectional Chart indexes. (Scale 1 inch = 3.43nm/1:250,000. 25 x 20 inches folded to 5 x 10 inches.) Revised semi-annually, except Puerto Rico/Virgin Islands is revised annually.

Terminal Area Charts ..... P/N 8064 .....---

PS

NOTE: When ordering charts, complete part number with first 3 letters of chart title. Ex: Los Angeles terminal chart is P/N 8064LOS.

For Subscription service: Add -SUB (example: 8064LOS-SUB) and a new chart will be shipped and billed to you automatically at every revision until you cancel the subscription. Subscription chart orders require credit card number on file.

Atlanta	Cleveland	Houston	Miami	Phoenix	Seattle
Boston	Dallas	Kansas City	Minneapolis	Pittsburgh	St. Louis
Charlotte	Denver	Las Vegas	New Orleans	Salt Lake City	Orlando/Tampa
Chicago	Detroit	Los Angeles	New York	San Diego	Washington
Cincinnati	Honolulu	Memphis	Philadelphia	San Francisco	Anchorage/Fairbanks

CINCINNATI VFR TERMINAL AREA & FLYWAY CHART

P/N 8064CIN .....---

AERONAV VISUAL NAVIGATION CHARTS

AERONAV AIRPORT / FACILITY DIRECTORY

The Airport/Facility directory is a pilot's manual which contains data on public and joint use airports, seaplane bases, heliports, VFR airport sketches, NAVAIDs, communications data, weather data sources, airspace, special notices, VFR waypoints and operational procedures. The seven volumes cover the conterminous United States, Puerto Rico, and the Virgin Islands. Includes data that cannot be readily depicted in graphic form; e.g., airport hours of operation, types of fuel available, runway data, lighting codes, etc.

--- ea.

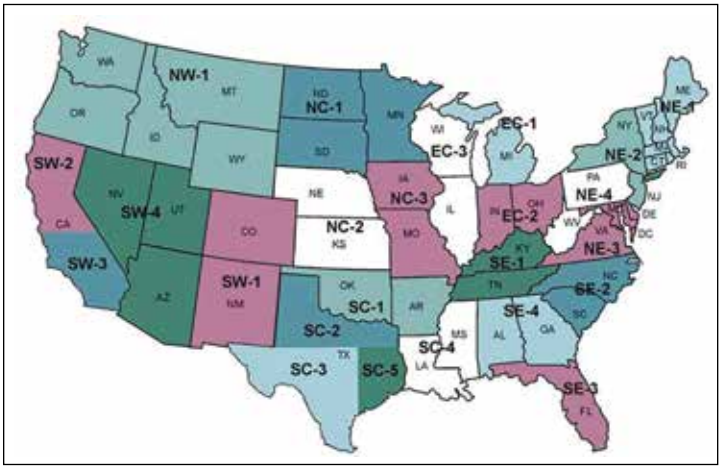
Area	Part No.
Southwest U.S.	AFD-SW
Northwest U.S.	AFD-NW
So. Central U.S.	AFD-SC
No. Central U.S.	AFD-NC

Area	Part No.
East Central U.S	AFD-EC
Southeast U.S.	AFD-SE
Northeast U.S.	AFD-NE

OTHER VFR CHARTS:

VFR-IFR Wall Planning Chart (U.S.) Flat/Wall.....P/N 13-30703 .....---
VFR-IFR Wall Planning Chart (U.S.) Folded.....P/N 13-06455 .....---
U.S. Gulf Coast VFR Chart .....P/N 13-30704 .....---
Grand Canyon VFR Chart .....P/N 13-30706 .....---
Baltimore-Washington Helicopter Route Chart.....P/N 13-30707 .....---
Chicago Helicopter Route Chart.....P/N 13-30709 .....---
Houston Helicopter Route Chart.....P/N 13-30711 .....---
Los Angeles Helicopter Route Chart .....P/N 13-30712 .....---
New York Helicopter Route Chart .....P/N 13-30713 .....---
Pacific Chart Supplement .....P/N 13-07875 .....---

World Aeronautical Charts for Alaska



TERMINAL PROCEDURES COVERAGE OF THE CONTERMINOUS U.S.

Includes: • Instrument Approach Procedure (IAP) Charts •Departure Procedure (DP) Charts • Standard Terminal Arrival (STAR) Charts • Charted Visual Flight Procedures (CVFP) • Airport Diagrams

IAP Charts are designed to provide an IFR descent from the enroute environment to a point where a safe landing can be made. DP charts are Air Traffic Control (ATC)-coded departure procedures which have been established at certain airports to simplify clearance delivery procedures. STAR charts are ATC-coded IFR arrival routes established for certain airports to simplify clearance delivery procedures. CVFPs are an operational technique designed to move air traffic safely and expeditiously. In addition to conventional visual approach procedures, it has been necessary to specify routes/altitudes to enhance noise abatement at some locations. CVFPs have been developed to provide a pictorial display of these visual arrival routes. Airport Diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating geodetic position navigational systems aboard aircraft.

Bound Volumes .....---
Loose Leaf Volumes.....---

PS

Description	Bound P/N
South Central Vol.1	13-01331
South Central Vol.2	13-01332
South Central Vol.3	13-01333
South Central Vol.4	13-01334
South Central Vol.5	--
Southeast Vol. 1	13-01335
Southeast Vol. 2	13-01336
Southeast Vol. 3	13-01337
Southeast Vol. 4	13-01338
Southwest Vol. 1	13-01339
Southwest Vol. 2	13-01340
Southwest Vol. 3	13-01445

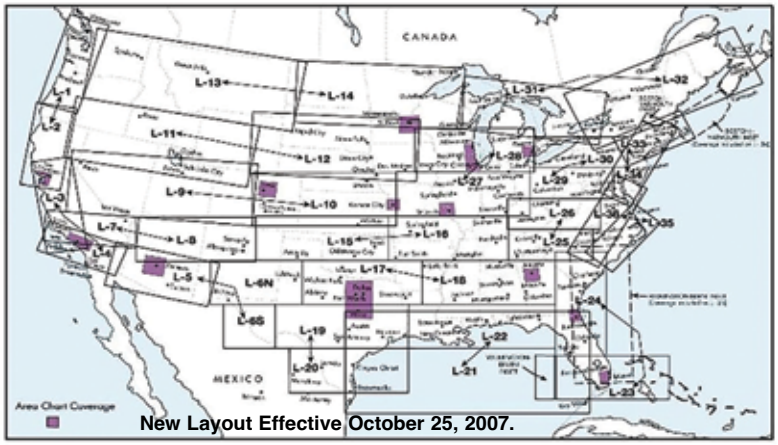
Description	Bound P/N
Southwest Vol. 4	13-00814
East Central Vol. 1	13-01341
East Central Vol. 2	13-01342
East Central Vol. 3	13-01343
North Central Vol. 1	13-01344
North Central Vol. 2	13-01345
North Central Vol. 3	13-01346
Northeast Vol. 1	13-01347
Northeast Vol. 2	13-01348
Northeast Vol. 3	13-01349
Northeast Vol. 4	13-02062
Northwest Vol. 1	13-01350

Area	Part No.	Price
Caribbean Low Enroute 1/2	13-07902	---
Caribbean Low Enroute 3/T3	13-07903	---
Caribbean Low Enroute 5/6	13-07904	---
Caribbean Low Enroute T1/T2	13-07905	---

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

INSTRUMENT NAVIGATION CHARTS

AERONAV ENROUTE LOW ALTITUDE CHARTS



Enroute low altitude charts for conterminous U.S. (includes area charts)

Enroute Low Altitude charts (Conterminous U.S. and Alaska) provide aeronautical information for navigation under instrument flight rules below 18,000 feet MSL. Information includes: airways; limits of controlled airspace; position, identification, and frequencies of radio aids to navigation (Alaska 4-color series includes geographic coordinates); airports with terminal air/ground communications; minimum enroute and obstruction clearance altitudes; airway distances; reporting points; special use airspace areas; military training routes. Scales vary from 1 inch = 5nm to 1 inch = 20nm. 50 x 20 inches folded to 5 x 10 inches. Revised every 8 weeks. Area charts, which show congested terminal areas at a large scale, are included with subscriptions to any conterminous U.S. Set Low (Full set, East or West sets). Chart L-28 covers the Washington-Boston corridor at a scale similar to an Area Chart. Charts are revised every 8 weeks.

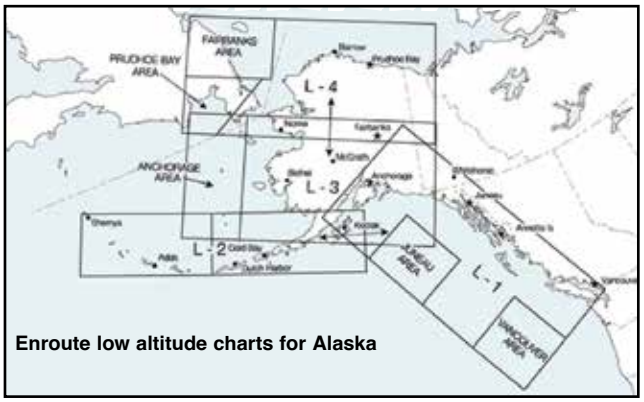
Enroute Low Altitude Charts ....P/N 8070L ..... **---/ea.**

Full Set (L1/2-L27/28 & Area Chart)
P/N 13-30714 ..... **---**

Western U.S. Set (L1/2-L15/16 & Area Chart)
P/N 13-30716 ..... **---**

Eastern U.S. Set (L11/12, L13/14, L17/18-L27/28 & Area Chart) .....P/N 13-30717 ..... **---**

Alaskan Set (Alaskan L1/2-Alaskan L3/4)
P/N 13-30718 ..... **---**



Enroute low altitude charts for Alaska

For individual charts please call 877-4-SPRUCE or visit our website at: www.aircraftspruce.com

IFR GULF OF MEXICO CHART - WEST.....P/N 13-08004 ..... **---**

IFR GULF OF MEXICO CHART - CENTRAL.....P/N 13-08003 ..... **---**

Note: When ordering individual charts, complete part number with the chart number. Example: Enroute Low Altitude Chart L-10 is P/N 8070L-10.

For SUBSCRIPTION service, add -SUB (example: 8070L-10-SUB) and a new chart will be shipped and billed to you automatically at every revision until you cancel the subscription. Subscription chart orders require a credit card number on file.

Chart Master On-Line Chart Selector

CHART MASTER

Chart Master is Aircraft Spruce's online chart selection program designed to tell you exactly which aviation charts you will need for the route you intend to fly. Just plug in the 3 letter airport identifiers for your departure and destination airports, and Chart Master will provide you with a list of all of the charts needed for your route. Select VFR (sectional, terminal, WAC, AFD, or IFR (Low altitude enroute) or both and order any or all of the charts listed by Chart Master. This program is available on line at www.aircraftspruce.com.

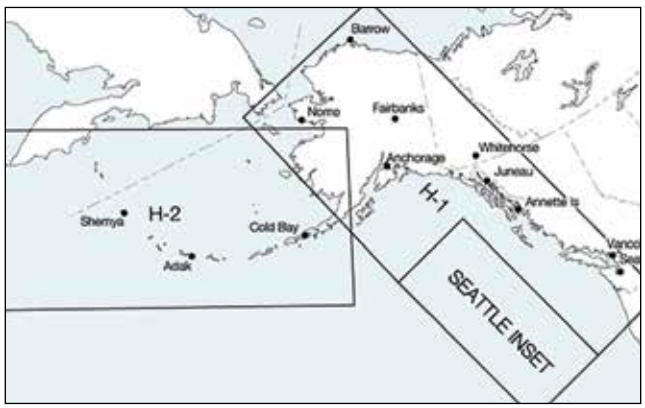
AERONAV IFR ENROUTE HIGH ALTITUDE CHARTS

IFR Enroute High Altitude Charts (Conterminous U.S. and Alaska) are designed for navigation at or above 18,000 feel MSL. This four color chart series includes: Jet route structure; VHF radio aid to navigation (frequency, ID, channel, geographic coordinates); selected airports; reporting points. (Scales vary from 1" = 78nm to 1" = 30nm. 55 x 20" folded to 5 x 10".) Revised every 8 weeks.

NOTE: When ordering individual charts, complete part no. with the chart no. Ex: Enroute High Altitude Chart H1/2 is P/N 8075-H1/2.

Full Set (H1/H2, H3/H4, H5/6, H9/H10, H11),(H3/H4, H5/H6, H7/H8-very small area,H9/H10), (H3/H4-very small area, H5/H6, H7/H8, H9/H10, H11) .. P/N 8075-1 .....**---**

For SUBSCRIPTION service: Add -SUB (example: 8075-H1/2-SUB) and a new chart will be shipped and billed to you automatically at every revision until you cancel the subscription. Subscription chart orders require a credit card number on file.



PS

CANADIAN AIA CHARTS

CANADIAN VNC (VFR) CHARTS

The VNC is used by VFR pilots on short to extended cross-country flight at medium altitudes and at low to medium airspeeds. These charts show aerodrome data, airspace information, radio aids to navigation, air/ground communications, and elevation with contour lines, tints and shaded relief.

Item	Title	Part No.	Price
5000	VNC Toronto	13-04425	---
5001	VNC Sault Ste Marie	13-04434	---
5002	VNC Montreal	13-04433	---
5003	VNC Moncton	13-04466	---
5004	VNC Vancouver	13-04467	---
5005	VNC Calgary	13-04468	---
5006	VNC Regina	13-04469	---
5007	VNC Winnipeg	13-04470	---
5008	VNC Thunder Bay	13-04436	---
5009	VNC Timmins	13-04435	---
5010	VNC Chicoutimi	13-04471	---
5011	VNC Anticosti	13-04472	---
5012	VNC Gander	13-04473	---
5013	VNC Kitimat	13-04474	---
5014	VNC Prince George	13-04475	---
5015	VNC Edmonton	13-04476	---
5016	VNC Flin Flon	13-04477	---
5017	VNC Big Trout	13-04478	---
5018	VNC James Bay	13-04479	---
5019	VNC Wabush	13-04480	---
5020	VNC Goose Bay	13-04481	---
5021	VNC Atlin	13-04482	---
5022	VNC Fort Nelson	13-04483	---
5023	VNC Athabasca	13-04484	---
5024	VNC Wollaston	13-04485	---
5025	VNC Hudson Bay	13-04486	---
5026	VNC Inukjuak	13-04487	---
5027	VNC Ungava	13-04488	---
5028	VNC Whitehorse	13-04489	---
5029	VNC Ft Simpson	13-04490	---
5030	VNC Yellowknife	13-04491	---
5031	VNC Rankin	13-04492	---
5032	VNC Coats Isl.	13-04493	---
5033	VNC Frobisher	13-04494	---
5034	VNC Klondike	13-04495	---
5035	VNC Great Bear Lake	13-04496	---
5036	VNC Bathurst Inlet	13-04497	---
5037	VNC Baker Lake	13-04498	---
5038	VNC Foxe Basin	13-04499	---
5039	VNC Cumberland	13-04501	---
5040	VNC MacKenzie	13-04502	---
5041	VNC Amundsen	13-04503	---
5042	VNC Cambridge	13-04504	---
5043	VNC Boothia	13-04505	---
5044	VNC Baffin Bay	13-04506	---
5045	VNC Banks Island	13-04507	---
5046	VNC Resolute	13-04508	---
5047	VNC Devon Island	13-04509	---
5048	VNC Hazen Strait	13-04510	---
5049	VNC Ellesmere	13-04511	---
5050	VNC Alert	13-04512	---
5099	VNC Alaska Highway	13-04516	---

FOR A COMPLETE IMAGE OF THE AREA MAP ABOVE, PLEASE VISIT WWW.AIRCRAFTSPRUCE.COM.

LOW ALTITUDE ENROUTE CHARTS

Enroute Low and High Altitude charts provide aeronautical information for instrument navigation in the low and high airway structure of the Canadian Domestic Airspace. The airspace over foreign territory and international waters in which Canada accepts responsibility for the provision of air traffic services, and other areas required for military use. The primary purpose of Enroute charts is to depict radio navigation data to provide rapid and precise location and identification of information requisite to radio instrument navigation.

Item	Title	Part No.	Price
LE12	LE12 Low Enroute Chart 1-2	13-04539	---
LE34	LE34 Low Enroute Chart 3-4	13-04541	---
LE56	LE56 Low Enroute Chart 5-6	13-04542	---
LE78	LE78 Low Enroute Chart 7-8	13-04543	---
LE910	LE910 Low Enroute Chart 9-10	13-04544	---

CANADA VTA TERMINAL CHARTS

Terminal area charts provide detailed information in congested air traffic areas. The six charts of the series cover Toronto, Montreal, Vancouver, Winnipeg, Calgary and Edmonton. The latter two are printed back to back. All charts are at a scale of 1:250,000.

Emonton/Calgary.....P/N 13-04426 ..... ---
Montreal.....P/N 13-04427 ..... ---
Toronto .....P/N 13-04428 ..... ---
Winnipeg.....P/N 13-04430 ..... ---
Vancouver .....P/N 13-04429 ..... ---

CANADA WATER AERODROME SUPPLEMENT (WAS)

Provides tabulated, textual data and graphical information in support of Canadian VFR charts. Contains an Aerodrome/Facilities Directory of all water aerodromes shown on Canadian VFR charts. Updated once a year in March.....P/N 13-04552 ..... ---

PS

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Please view our website for current prices.

FAR/AIM REGULATIONS

Model	Description	Part No.	Price
24-FAR-AMT	Maint Tech FAR*	13-15300-25	---
24-FAR-AMT2X	Maint Tech FAR E-bundle **2024**	13-12111-24	---
24-FAR-FC	Flight Crew FAR*	13-02293-25	---
24-FR-AM-BK	FAR-AIM Book	13-15200-25	---

***Available In Digital Download.**

PILOT TEST PREP BOOKS

Model	Description	Part No.	Price
TP-C-24	Commercial Test Prep	13-01298-25	---
TP-CFI-24	Flight Instructor Test Prep	13-32311-25	---
TP-FE	Flight Engineer Test Prep	13-18451	---
TP-I-24	Instrument Test Prep	13-00974-25	---
TP-P-24	Private Test Prep	13-00984-25	---
TP-UAS	Remote Pilot Test Prep	13-19086-25	---

FAA AMT HANDBOOKS

Model	Description	Part No.	Price
8083-30	AMT General Handbook	13-06257	---
8083-30-2X	General Handbook E-bundle	13-19058	---
8083-31V1	Airframe Handbook Vol 1	13-13077	---
8083-31V2	Airframe Handbook Vol 2	13-13078	---
8083-31V2-2X	Airframe Handbook Vol 2 E-bundle	13-19060	---
8083-32-2X	Powerplant Handbook E-bundle	13-19061	---
AC43.13-1B2B	Aircraft Repairs & Modifications	13-06050	---
AC43.13-2X	Aircraft Inspection/Repair E-bundle	13-18724	---

AMT TEST GUIDE BOOKS

Model	Description	Part No.	Price
AMA-23	Airframe Test Guide	13-32321-25	---
AMP-23	Powerplant Test Guide	13-32322-25	---
AMG-23	General Test Guide	13-32323-25	---
IA-7	Inspection Auth Test Guide	13-01297	---

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TEST PREP BUNDLES

Model	Description	Part No.	Price
TPB-AMA-22	Airframe Test Bundle	13-10160-25	---
TPB-AMG-22	General Test Bundle	13-10158-25	---
TPB-AMP-22	Powerplant Test Bundle	13-10162-25	---
TPB-IA7	Inspection Auth Test Bundle	13-10166	---
TPB-UAS	Remote Pilot TP Bundle	13-19088-24	---

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TEST PREP SOFTWARE & APP

Model	Description	Part No.	Price
TW-AMG-22	AMT General Prepware	13-08679-22	---
TW-AMP-22	AMT Powerplant Prepware	13-08682-22	---
TW-PVT-22	Private Prepware	13-01078-22	---
TWO-SCL-S	Student Online Prepware Card	13-16215	---
TP-ATP-25	2025 Airline Transport Pilot Test Prep With Prepware Software (Softcover)	13-25711-25	---

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FAA PILOT HANDBOOKS

Model	Description	Part No.	Price
8082-22	Remote Pilot sUAS Study Guide	13-19501	---
8083-13A	Glider Flying Handbook	13-02589	---
8083-15B	Instrument Flying Handbook	13-00986	---
8083-15B-2X	Instrument Flying Handbook E-bundle	13-19055	---
8083-16A	Instrument Procedures Handbook	13-15939	---
8083-16A-2X	Instrument Procedures Handbook E-bundle	13-16213	---
8083-1B	Weight & Balance Handbook	13-01059	---
8083-2	Risk Management Handbook	13-06667	---
8083-2.1-2X	Risk Management E-Bundle	13-15501	---
8083-21A	Helicopter Flying Handbook	13-00735	---
8083-21A-2X	Helicopter Flying Handbook E-bundle	13-19056	---
8083-23	Float & Ski Handbook	13-03470	---
8083-25B	Pilots Handbook Aero Know	13-00983	---
8083-25B-2X	Pilots Handbook Aero Know E-bundle	13-19057	---
8083-3B	Airplane Flying Handbook	13-10219	---
3B-2X	Airplane Flying Handbook E-bundle	13-19681	---
8083-6	Advanced Avionics Handbook	13-06670	---
8083-9A	Aviation Instructors Handbook	13-19380	---
8083-9A-2X	Aviation Instructors Handbook E-bundle	13-19070	---
ANA	Aerodynamics Naval Aviators	13-01060	---
CUG-12	Aeronautical Chart Users Guide*	13-15497	---
CUG-12-2X	Chart Users Guide E-bundle	13-15498	---

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VTP TEST PREP VIDEOS

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VTP-FLIGHT	Flight Maneuvers Video	13-17840	---
VTP-I	Instrument VTP Course	13-12382	---
VTP-PVT4	PVT Video Course	13-06051	---
VTP-SCHOOL	Test Prep Videos For Schools	13-19698	---
VTP-SCHOOL-H	Heli Video For School Use	13-19699	---

FAA TEST & CERT STANDARDS

Model	Description	Part No.	Price
8081-12C	Practical Test Standards Commercial Pilot	13-00980	---
8081-15A	Practical Test Standards: Private Pilot Rotorcraft for Helicopter And Gyroplane	13-02337	---
8081-16B	Commercial & CFI - Helicopter	13-07269	---
8081-5F.7	ATP/Dispatch	13-03575	---
8081-6DS	CFI Single Engine Pts	13-32314	---
8081-9D	CFI Instrument	13-02296	---
8081-AMT-4	Aviation Mechanic	13-18425	---
ACS-10	Remote Pilot Airman Certificate Standards	13-19089	---
ACS-6B	ACS: Private Pilot Airplane	13-18974	---
ACS-8	ACS: Instrument Rating Airplane	13-18976	---

AMT TEXTBOOKS

Model	Description	Part No.	Price
AMT-G3-2X	Amt General Text E-bundle	13-19047	---
AMT-G3H	Amt General Textbook	13-00574	---
AMT-P3	Amt Powerplant Textbook	13-00583	---
AMT-P3-2X	Amt Powerplant Text E-bundle	13-19684	---
AMT-STRC3-2X	Airframe Structures E-bundle	13-19049	---
AMT-STRUC-3H	Airframe Structures	13-00581	---
AMT-SYS-3H	Airframe Systems	13-00582	---
AMT-SYS3-2X	Amt Systems Text Ebundle	13-19050	---
COMP-101	Comp Gd To Composites	13-18605	---
COMP-101-2X	Comp Gd To Composites	13-19077	---
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AERODYN-2	Aerodynamics	13-18972	---
AERODYN-2-2X	Aerodynamics E-bundle	13-18973	---
AIRPT-MGT	Airport Management	13-18534	---
CAP-5	Comp Advanced Pilot*	13-01714	---
CAP-5-2X	Comp Advanced Pilot E-bundle	13-19075	---
FM-ADV-8	Advanced Pilot Flight Manual*	13-32225	---
FM-ADV-8-2X	Advanced Pilot Flight Manual E-bundle	13-19080	---
FM-AERO-2	Basic Aerobatic Manual*	13-32210	---
FM-AERO-3-PD	Basic Aerobatic Manual eBook PDF	13-22611	---
SD-EB	Skydancing: Aerobatic Flight Techniques - Ebook	13-22701	---
FM-CFI-6	Flight Instructor's Manual*	13-32220	---
FM-INST-7	Instrument Flight Manual*	13-32215	---
FM-INST-7-2X	Instrument Flight Manual E-bundle	13-18880	---
FM-STU-10	Student Pilot Flight Manual*	13-32230	---
FM-STU-10-2X	Student Pilot Flight Manual E-bundle	13-18879	---
GNP-2	Global Navigation For Pilots	13-01061	---
HELI-FM	Helicopter Flight Maneuvers	13-18467	---
MPT-3	Comp Multiengine Pilot	13-06661	---
PHF-2	Principles Helicopter Flight	13-05799	---
PHF-2-2X	Principles Helicopter Flight E-bundle	13-19083	---
PHF-GRAFX-CD	Principles Of Helicopter Textbook Images CD Rom	13-19084	---
PM-1B	Flight School	13-00982	---
PM-2C	Ground School	13-00978	---
PM-2C-2X	Ground School E-bundle	13-18402	---
PM-3C	Instrument Flying	13-00979	---
PM-3C-2X	Instrument Flying E-bundle	13-18403	---
PM-ME	Multi Engine Flying	13-18405	---
PM-S-P5	Private Syllabus	13-02264	---
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TURB-PLT3-2X	Turbine Pilot Flight Man E-bundle	13-19096	---
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Model	Description	Part No.	Price
PG-C-172	Cessna 172 Pilot's Guide	13-01055	---
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CT-8080-8D	Inspection Auth. Test Figures	13-02262	---

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PPT-KT	Student Pilot Kit	13-02271	---
PVT-141-KIT	Private Pilot School Kit	13-03128-25	---
PVT-61-KIT	ASA Complete Private Pilot Kit - Part 61	13-03127-25	---

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Description	Part No.	Price
Private Pilot License - VFR - 50 Tabs- 5 Colors	13-25153	---
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Instrument Flight Rules - IFR - 50 Tabs - White	13-25156	---
Commercial Rating - 49 Tabs - 5 Colors	13-25157	---
Commercial Rating - 49 Tabs - White	13-25158	---
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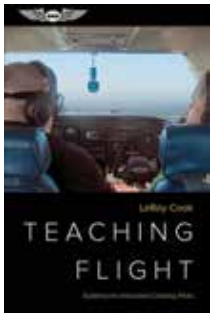

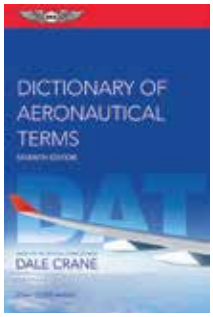

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ACC-REV	Accident Review	13-18598	---
ACD	International Aircraft Directory	13-04144	---
AIR-CR2	Air Carrier Operations 2nd Ed	13-05809	---
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C21FT	21st Century Flight Training	13-18479	---
CARAVAN	Cessna Caravan*	13-06226	---
CKLIST-6	Checklist For Success*	13-28701	---
COCKPIT-PRO	Cockpit Procedures	13-06254	---
CON-FLY-EB	Confident Flying E-Book	13-22594	---
DAT-5	Dictionary Aero Terms*	13-28700	---
DC-3	Together We Fly DC-3*	13-09979	---
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FLIERS	Fliers In Their Own Words	13-02362	---
FLY-CARPET	Flying Carpet*	13-01949	---
FLY-RG	Flying Light Retractables	13-17899	---
FLY-WING-2	Fly The Wing*	13-05791	---
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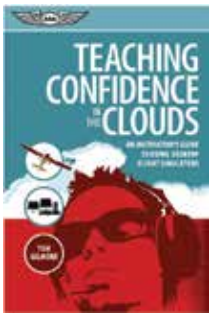
PILOT BOOKS



Model	Description	Part No.	Price
NIGHT-PD	ASA Sunset To Sunrise	13-23411	---
JOB-SRCH	Your Job Search Partner	13-05844	---
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LESSONS-LOG	Lessons From The Logbook	13-05019	---
NSI-2	Notes Of Seaplane Instructor	13-02367	---
NTC	Notes On Tailwheel Checkout	13-16529	---
PERF-TOL	Perf Takeoffs & Landings	13-23500	---
PIC	Pilots In Command	13-16523	---
PLT-TEST	Test Pilot 1001 Things	13-05793	---
PP-1	Prof Pilot Vol 1	13-23100	---
PP-2	Prof Pilot Vol 2	13-01443	---
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Pilots will find the Oral Exam Guides indispensable tools in both planning for what to expect during the airplane checkride, and mastering the subject matter.

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OEG-ATP5-EB	ATP Oral Exam Guide eBook-EB	13-22644	---
OEG-ATP5-PD	ATP Oral Exam Guide eBook- PD	13-22645	---
OEG-BFR7	Flight Review Guide	13-00973	---
OEG-BFR8-EB	Flight Review Guide eBook-EB	13-22646	---
OEG-BFR8-PD	Flight Review Guide eBook-PD	13-22647	---
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OEG-C9-EB	Commercial Oral Exam Guide eBook-EB	13-22648	---
OEG-C9-PD	Commercial Oral Exam Guide eBook-PD	13-22649	---
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OEG-H2	Helicopter Oral Guide	13-05853	---
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OEG-ME7	Multi-engine Oral Exam Guide	13-02060	---
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This important Federal Aviation Administration (FAA) Handbook updates and consolidates information previously available in six different Advisory Circulars: Pilots and dispatchers must learn to deal with all aspects of weather, including how to appreciate good weather, recognize and respect marginal or hazardous weather, and avoid violent weather. This knowledge and the ability to make sound weather decisions are critical to the successful outcome of all flights. This book discusses each aspect of weather as it relates to aircraft operation and flight safety and provides information on the tools available for flight planning and inflight weather decisions, including observations, analyses, and forecasts.

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ASA ILLUSTRATED GUIDE TO FLYING

Inspired by the effortless soaring of birds, humans have taken to wing as the safest, fastest, and most enjoyable way to travel.

An Illustrated Guide to Flying by Barry Schiff explains the principles and practice of flying with concise critical facts, supported with prolific illustrations and photographs, covering basic flight maneuvers, aircraft engines and flight instruments, navigation, weather, types of aircraft, traffic control, flight rules, and more.

This is an exciting introduction to flying for aspiring pilots of all ages, revealing the mysteries of flight and explaining how pilots deal with their aircraft and the elements through which they fly. Either as a student, passenger, or future pilot, the reader will enter a fascinating new world that offers challenge, fun, and adventure.

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BUNDLE OF PILOTS HANDBOOK OF AERONAUTICAL KNOWLEDGE / AIRPLANE FLYING HANDBOOK

Providing basic knowledge essential for all pilots, from beginning students through to the more advanced certificates, this Federal Aviation Administration (FAA) publication introduces readers to the broad spectrum of knowledge required as they progress through pilot training. Studying this book, pilots gain the required knowledge to earn a certificate and understand aerodynamic theory associated with airplane flight. Written for the pilot preparing for a Remote, Sport, Private, Commercial, or Flight Instructor Pilot Certificate, it is a key reference for all the information necessary to operate an aircraft and to pass the FAA Knowledge Exam and Practical Test (checkride).....P/N 11-18947 ..... ---

AN AVIATORS FIELD GUIDE TO OWNING AN AIRPLANE

In An Aviator's Field Guide to Owning an Airplane, author Jason Blair shares the knowledge and tips he's gained from his many years owning aircraft and assisting numerous customers buy, sell, manage, and maintain their own airplanes. This book incorporates Blair's many years of industry experience as an aircraft owner, active pilot, instructor, and FAA Designated Pilot Examiner to cover the practical details of ownership and offer tips to maximize your use and enjoyment of your aircraft. You'll discover how to determine the full cost of aircraft ownership, select insurance, consider tax implications, pick an airport to call home, assess and choose aircraft storage, safely move your airplane, manage maintenance work, find and organize important documents, manage and determine the significance of inoperative equipment, evaluate potential modifications for improved performance, upgrade avionics, overhaul or swap an engine, budget for future maintenance, and more.

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Single-source manual of what pilots should know about basic aircraft systems. Previously published by Jeppesen. Previously published by Jeppesen, Aircraft Systems for Pilots is a single-source manual of what pilots should know about basic aircraft systems. It includes a study of the fundamentals of physical matter (from which airplanes are made) and mechanics (how airplane parts act and react). Study of each type of system allows the professional pilot to stay abreast of the critical learning that must occur upon advancement into management of more complex aircraft.

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Beginning or part-time flight instructors (CFIs) are not always fully aware of what to expect as a student pilot progresses through the flight training process. In Teaching Flight, author LeRoy Cook lends his half-century of experience as a guide to motivate, inspire, and mentor new instructors. Flight instructors following his steps will find a mentor in LeRoy Cook, while taking their students from first flight through certification. Teaching Flight offers a plethora of ideas for instructors to keep their students inspired, encouraged, confident, and competent on their road to earning a certificate and rating.

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For those preparing to enter the field of aviation maintenance, for those seeking an introduction to electricity, as well as for experienced mechanics who want to increase their knowledge of electricity and electrical systems. Aircraft electrical systems are not limited to the starter, generator, battery and ignition; the electronics are no longer just the "radio." Today's aircraft are loaded with electric motors, lights, instruments and heaters, and the avionics and electronic controls have made flight profitable, safe, and efficient.

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13-02313

13-01547

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CT-PPGS-2	Private Pilot Ground School Certificate (10 Pack)	13-02327	---
FP-3	Flight Planner Pad	13-18431	---
FS-KT	Flight Schedule Kit	13-02308	---
FS-60	Flight Schedule Refill Pack	13-02309	---
SA-1	Aircraft Log - Softcover	13-32375	---
SA-2	Aircraft Log - Hardcover	13-32384	---
SA-V2	Avionics Log	13-02315	---
SE-1	Engine Log - Softcover	13-32380	---
SE-2	Engine Log - Hardcover	13-32382	---
SFR-H4	Flight Rec Helicopter	13-01547	---
SFR-IC5	Flight Rec Inst-commercial	13-01551	---
SFR-P5	Flight Rec Private	13-01548	---
SP-10	Pilot Log - Softcover	13-05670	---
SP-30	Pilot Log - Black	13-32365	---
SP-40	Pilot Log - Red	13-32360	---
SP-57	Pilot Log - Blue	13-32355	---
SP-6	Pilot Master Log	13-32392	---
SP-AMT	AMT Logbook	13-02313	---
SP-FC	Flight Crew Logbook	13-18473	---
SP-FLT-2	Aircraft Flight Log	13-03163	---
SP-INK	Pilot Log Pink	13-18545	---
SP-L	Propeller Logbook	13-32370	---
SP-UAS	Pilot Log UAS	13-18544	---

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In this book you'll learn the tricks of the trade for the areas where pilots have traditionally needed to sharpen their mental math skills: fuel planning, temperature conversions, reciprocal headings, turn radius, crosswind components, time-speed-distance problems, calculating true airspeed, the 60-to-1 rule, and many others. Solve math problems in the cockpit without the use of calculators or even a pencil and paper using solutions that are simple to use and practical for airborne contingencies. This book will help you stay ahead of the flight with cockpit tools you can use to assist you in planning the flight. Mental math tools and shortcuts allow you to fly and navigate better and more efficiently. On top of all that, these skills help you perform your best in an airline interview.

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Flying a drone for non-hobby operations requires a Remote Pilot Certificate. A person must successfully pass the Federal Aviation Administration (FAA) Knowledge Exam to earn a Remote Pilot certificate with a small unmanned aircraft systems (sUAS) rating. This course is your key to your success.

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For Helicopter and Powered Lift applicants only. Instrument Rating Airplane applicants should use the Airman Certification Standard, ACS-8.

The Practical Test Standards are a guide for students, instructors, and FAA-designated examiners to know what is expected of pilots during a checkride.

P/N 13-00985 ..... ---

ASA AIRMAN CERTIFICATION STANDARDS: ATP AND TYPE RATING FOR AIRPLANE

The Airman Certification Standards is the guide for students, instructors, and FAA-designated examiners to know what applicants must know, do, and consider for their FAA Knowledge Exam and practical (checkride) to earn their pilot certificate or rating. Effective June 28, 2019, the ACS adds task-specific knowledge and risk management elements to each Area of Operation and Task. The result is a comprehensive presentation that integrates the standards for what an applicant needs to know, consider, and do in order to pass both the knowledge test and the practical test for a certificate or rating.....P/N 13-22175 ..... ---

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Whether you're preparing for turbine ground school, priming for a corporate or airline interview—or even if you're upgrading into your first personal jet or turboprop—The Turbine Pilot's Flight Manual is designed for you. With precision and a sense of humor, authors Greg Brown and Mark Holt cover all the basics for turbine pilot operations, clearly explaining the differences between turbine aircraft and their piston engine counterparts

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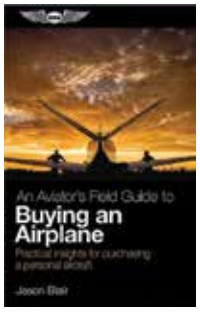

ASA AN AVIATORS FIELD GUIDE TO BUYING AN AIRPLANE

In An Aviator's Field Guide to Buying an Airplane, author Jason Blair shares his knowledge and experience gained from purchasing his own aircraft as well as helping numerous customers find, evaluate, and buy the right aircraft for their needs. Blair's many years of industry experience as an aircraft owner, active pilot, instructor, and FAA Designated Pilot Examiner has provided him with specific expertise and insight that he is now sharing with aspiring aircraft owners in this book.

P/N 13-22456 ..... ---

ASA WE HAVE A NO CRASH POLICY

The aircraft we fly and fly in are masterpieces of engineering. They have transformed what was once unimaginable into everyday experience. How is this possible? What lies beneath the global aviation system we have today, and its phenomenal safety record? We Have a No Crash Policy explains the technology and human factors in flying from the pilot's point of view, in an understandable, humorous way.

Soft Cover .....P/N 13-22230 ..... ---
eBook-PD .....P/N 13-22637 ..... ---
eBook-EB .....P/N 13-22636 ..... ---

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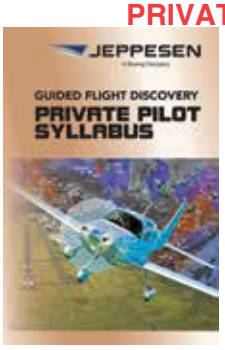
Please view our website for current prices.

JEPPESEN FLIGHT TRAINING

PRIVATE PILOT MANEUVERS MANUAL

Each maneuver is presented using colorful graphics, step-by-step procedure descriptions, helpful hints, PTS references and study exercises to help you visualize and understand each maneuver you will perform in the airplane .....P/N 13-21770 ..... ---

PRIVATE PILOT SYLLABUS



The Private Pilot Syllabus has been updated for FAA-S-ACS-6C tasks that apply to each ground lesson in addition to flight lessons and to align with new textbook content, such as energy management, graphic weather products, and threat and error management. In addition, the syllabus now introduces Competency-Based Training and Assessment (CBTA). Additional features include a step-by-step description of course contents, lesson objectives, flight and ground time allocations for all lessons, and coordination of other academic support materials with your flight training. Provides the framework for Part 141 and Part 61 ground and flight training.

P/N 13-25668 ..... ---

PRIVATE PILOT RECORD FOLDER

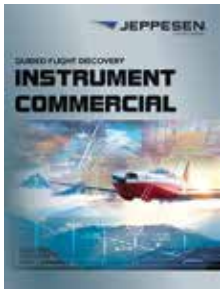
From your ground lessons and written exams, to flight maneuvers and flight checks, this record folder effectively tracks all the details during your pilot training - both FAR Part 141 and FAR Part 61. Set of ten.
Single.....P/N 13-01206-1 ..... ---

JEPPESEN I/C RECORD FOLDER

Effectively track all the details during your multi-engine training. From your ground lessons and written exams, to flight maneuvers and flight checks, this record folder effectively tracks all the details during your instrument/commercial training - both FAR Part 141 and FAR Part 61. One folder. P/N 13-06245 ..... ---

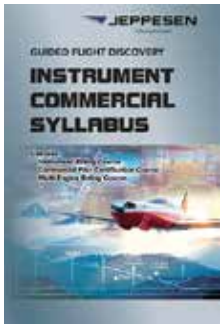
COMMERCIAL PILOT AIRPLANE AND HELICOPTER FAA EXAM PACKAGE

This package contains the FAA Question Bank (reprints of all test questions) for the commercial pilot airplane knowledge test and test supplements (charts, diagrams, and appendices for reference), as well as sample tests and answer sheets.
P/N 13-01227..... ---



GFD INSTRUMENT/ COMMERCIAL MANUAL

Jeppesen's Guided Flight Discovery Instrument/ Commercial Manual provides the most complete explanations of aeronautical concepts for professional pilots through the use of colorful illustrations and full-color photos. This primary source for initial study and review includes Principles of Instrument Flight, The Flight Environment, Instrument Charts and Procedures, Aviation Weather and IFR Flight operations and Commercial Pilot Operations, as well as an introductory look at Building Professional Experience. The most comprehensive and visually appealing Instrument/ Commercial manual ever.
P/N 13-21760 ..... ---

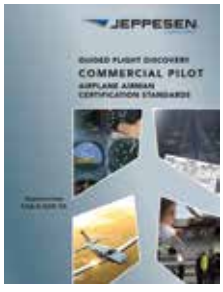


INSTRUMENT / COMMERCIAL SYLLABUS

This training syllabus covers the learning objectives and time allocations for both Instrument Rating and Commercial Certificate. The syllabus also contains an option for a Multi-Engine Rating. In addition to the syllabus, this package also contains enrollment notices.
P/N 13-21740 ..... ---

GFD PRIVATE/INSTRUMENT FLITESCHOOL SOFTWARE

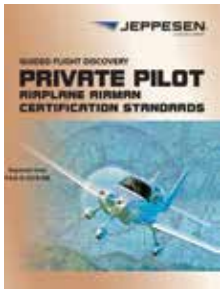
FliteSchool Multimedia Software is a complete, interactive home study course for passing the FAA airman knowledge exams. FliteSchool Multimedia Software makes it easy, fast and fun to get a great score on your exam. You learn the material thoroughly and get the highest possible score on your exam while retaining what you learn. Only FliteSchool Multimedia software integrates the complete textual references to the GFD Private and Instrument/Commercial Manual, allowing you easy access to expanded information. Carefully selected graphics and computer animation are combined to help you understand difficult concepts. In addition, all FAA figures are contained on the CD-ROM for easy reference.
GFD Instrument FliteSchool.....P/N 13-100519 ..... ---



JEPPESEN PRACTICAL TEST STANDARDS

Knowing that the FAA computer exam is only art of the certification process, prepare yourself for the FAA checkride with Jeppesen Practical Test Standards. Jeppesen FAA Practical Test Standards reprints are valuable training aids for students, examiners & instructors. The following topics are available:
Commercial Pilot Airplane (single-engine land)
P/N 13-01224 ..... ---
Instrument Rating (Airplane, Helicopter Airship)
P/N 13-01223 ..... ---

JEPPESEN PRIVATE PILOT AIRMAN CERTIFICATION STANDARDS



The Airman Certification Standards (ACS) provide clear information on what applicants must know, consider, and do to qualify for certifications and ratings. Private Pilot Airman Certification Standards replaces the Private Pilot Practical Test Standards. The ACS framework provides a single-source explanation of standards for both the knowledge test and the practical test. It also enables the FAA to keep standards aligned with guidance (handbooks) and knowledge test questions. Built on the Practical Test Standards (PTS), the ACS adds the aeronautical knowledge and risk management elements needed to support each PTS Task. The ACS provides a clear, easy-to-use flight plan for the material the FAA expects an applicant to know (knowledge), consider (risk management), and do (skill) to qualify for an airman certificate or rating .....P/N 13-19102 ..... ---

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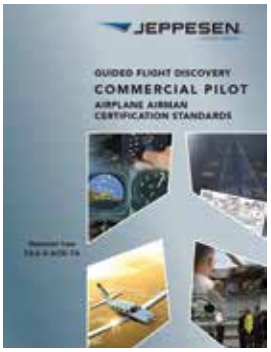
JEPPESEN FLIGHT TRAINING

JEPPESEN A&P GENERAL TEST GUIDE WITH ORAL & PRACTICAL STUDY GUIDE

All Jeppesen maintenance test guides include an extensive database of FAA subject test questions, answers, explanations and references that are cross referenced to the corresponding Jeppesen A&P textbooks. Each test guide also includes the latest oral and practical test questions and answers. 272 pages.

P/N 13-01188 ..... ---



COMMERCIAL PILOT PRACTICAL TEST STANDARDS

This reprint of the FAA Commercial Pilot PTS contains the standard requirements for obtaining a commercial pilot certificate with an airplane single-engine land or airplane single-engine sea rating.

P/N 13-01224 ..... ---

A&P AIRFRAME TEST ORAL & PRACTICAL STUDY GUIDE

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A&P TECHNICIAN AIRFRAME WORKBOOK

• Updated and revised content in all 17 chapters •Added a Glossary to the Textbook • Integrated the workbook into the textbook • A majority of the book is now in color • Added Summary Checklists to the end of each section or chapter • Added key terms to the end of each section or chapter

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A&P POWERPLANT TEST GUIDE WITH ORAL & PRACTICAL STUDY GUIDE

All Jeppesen maintenance test guides include an extensive database of FAA subject test questions, answers, explanations and references that are cross referenced to the corresponding Jeppesen A&P textbooks. Each test guide also includes the latest oral and practical test questions and answers. 344 pages.

P/N 13-01195 ..... ---

A&P TECH POWERPLANT TEXTBOOK

Enhance your knowledge with our comprehensive text that exceeds FAR part 147 standards. Color illustrations, charts and diagrams, end of section quizzes and summary checklists make tough concepts easier to grasp. 1130 pages.

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FLIGHT INSTRUCTOR DELUXE 61/141 KIT

Jeppesen Flight Instructor Kits, developed for both FAR Part 61 and FAR Part 141 training programs, are the most complete flight instructor training package available. The Deluxe 61/141 Flight Instructor Kit is developed for FAR Part 141 training programs. It contains the following materials: Flight Instructor Manual, FAR/AIM Manual (paper), Private Pilot Maneuvers Manual, Flight Instructor Syllabus, Flight Instructor Record Folder, Flight Instructor PTS (single-, multi-engine land/sea, instrument), CFI, Ground Instructor, CFII and MEI FAA Exam Package, Aviation Instructor Handbook, and Pilot Kit Bag (black).

P/N 13-01176 ..... ---

FAA EXAM STUDY GUIDES

These Exam Study Guides are designed to prepare for and achieve higher FAA written test scores. They follow the Jeppesen textbooks by chapter, allowing your students to learn faster with a greater understanding of each area of study. These guides include: full-color charts, unique sliding mask for self study, all FAA airplane test ques.; FAA computer test info, current info on airspace reclassification.

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Instrument Rating Airmen Knowledge.....P/N 13-17510 ..... ---
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Guided Flight Discovery from Jeppesen provides the most complete training package available. Whether you are a chief flight instructor at a flight school or a student pilot working towards your first pilot's license, you can choose from a variety of integrated training materials. GFD has been developed for the finest flight schools, colleges and universities in the U.S. With Guided Flight Discovery, students will build a solid foundation of knowledge to take with them wherever they go. The GFD Pilot Training System puts schools and students on the leading edge of learning and builds better pilots. Call for a detailed list of kit components.
Part 61 Kit (pictured) .....P/N 13-02425 ..... ---
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FLIGHT INSTRUCTOR KITS

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CFI Kit Part 61.....P/N 13-01175 ..... ---
CFI Kit Part 141.....P/N 13-01176 ..... ---

GFD FLIGHT INSTRUCTOR MANUAL

Prepares CFI applicants for Flight Instructor-Airplane certificate, Instrument-Airplane and multi-Engine-Airplane Instructor ratings. This 560-page, full-color text includes over 1,000 photos and illustrations. workbook exercises, instructor endorsements and a comprehensive glossary and index are included.
P/N 13-01178 .....---

GFD MULTI-ENGINE MANUAL

This text illustrates important aerodynamic concepts and complex systems using 375 full-color graphics. One of the strong points of the GFD series is that it maintains student interest through sometimes dry material by using sidebars to illuminate the text, presented as Discovery and Human Element insets. The Multi-Engine Manual builds on this practice with 2 new types of insets, one highlights flying careers and another that discusses in-flight situations that bring together critical points made in the text. Quotes also liven things up–the Multi-Engine Manual manages to take inspiration from sources as diverse as Anne Morrow Lindbergh & Monty Python.
P/N 13-01644 ..... ---

MULTI-ENGINE SYLLABUS

A 36-page guide to both ground & flight training for the Multi-Engine Rating. Describes schedules, lesson objectives, content and completion standards for 2 stages of flight training & 2 stages of ground training. Required for FAR Part 141 flight schools .....P/N 13-01173 ..... ---

AVIATION MAINTENANCE TRAINING KITS

With this kit, you'll have all the test preparation essentials needed to ace your exams. Kit items are also sold individually.

GENERAL A&P KIT INCLUDES -

- Jeppesen Style Flight Bag (Black)
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- AC 4313 Acceptable Methods - Teck Books Co.
- Jeppesen A&P Technician General Textbook
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The most current general aviation textbook available. Written to the new FAR part 147 standards. Expanded to include a complete section on electrical generators & motors, new hardware, and non-metalic components. Also includes current & comprehensive coverage on those items found in the previous version. Many new tables, charts and illustrations, including abrasives, corrosion removal & treatment, corrosion points, and helicopter weight & balance and others.
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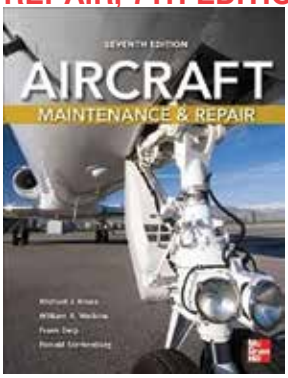
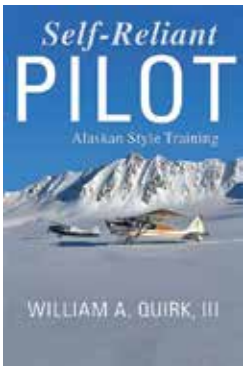
JEPPESEN FLIGHT TRAINING

AIRCRAFT MAINTENANCE & REPAIR, 7TH EDITION



This in-depth guide provides all of the up-to-date information needed to perform return-to-service-quality aircraft maintenance and pass FAA Certification
Aircraft Maintenance and Repair, Seventh Edition is an essential resource for aviation maintenance students and professionals. It also serves as an exam guide for those preparing for the FAA Airframe and Powerplant certification. .....P/N 13-12722 ..... ---

THE SELF-RELIANT PILOT ALASKAN STYLE TRAINING



Self-Reliant Pilot was written to provide a multitude of aviation objectives. First and foremost it was written to provide an aviation book on the subject of flying and landing taildragger aircraft in remote and challenging parts of Alaska and showing all the wonders of this type of flying. It shows the inspiration of flying and landing in the mountains on gravel bars, on glaciers and on the beaches in fjords. It displays the magnificent wildlife found in Alaska. It shows the camaraderie of flying in Alaska. Self-Reliant Pilot provides useful information on flying and landing ski-equipped aircraft in winter on snow covered terrain and short field landing operations in summer on Alaskan Bushwheels. Self-Reliant Pilot provides a complete explanation of who are the amazing elite Alaskan pilots along with their training program. It discusses the substantial number of aircraft accidents in Alaska and provides ways to greatly lower them to acceptable levels. The book was written to help fledgling pilots find alternative ways for becoming the best pilot they can be after receiving their Private Pilot License. The advanced training provided in the book is the most beneficial for General Aviation pilots that exist. .....P/N 13-21536 ..... ---

LASER CUT WOODEN AIRCRAFT TRAINING AID

12-06322

Hand crafted, laser engraved wooden training aids that bring a fun and interactive way to learn the complexity of the fundamentals of an airplane. The planes are labeled with comprehensive diagrams to help students progress through their journey of flying.
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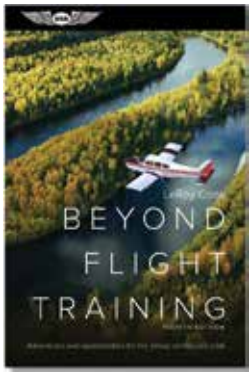
JEPPESEN FAR / AIM 2021 MANUAL

The 2021 Federal Aviation Regulations (FARs) and Aeronautical Information Manual (AIM) provides the most complete offering of regulations and information.

- This book contains FAR Parts 1, 43, 61, 67, 71, 73, 91, 97, 119, 133, 135, 141, 142, HMR 175, NTSB 830 and the complete FAA AIM
- AIM and Pilot/Controller Glossary with enhanced full-color graphics
- Easy-to-read text on high-quality paper
- Reference tabs help you easily locate regulations and AIM chapters.

P/N 13-15450 ..... ---

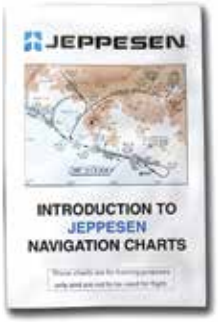
ASA BEYOND FLIGHT TRAINING



Earning the Private Pilot license is a great achievement—now, expand your initial schooling to go Beyond Flight Training. The real excitement begins when the flight instructor lets go of your hand and you're left to set your own goals and create your own motivations.
Veteran pilot and instructor LeRoy Cook shows you what lies beyond flight school. In these pages, he'll guide you into areas of aviation your instructors might not have mentioned. Things like planning your first cross-country flying vacation or sharpening your weather forecasting skills or pursuing advanced endorsements and ratings.

P/N 13-21313 ..... ---

JEPPESEN INTRODUCTION TO NAVIGATION CHARTS



The chart training guide is published as a service for pilots training with Jeppesen charts. It is intended for reference only and includes some of the most commonly used symbolism. This guide is revised regularly; however some variance may exist between this guide and current chart services. These may be the result of one or more of the following; chart issuance dates, timely application of changes received from governing agencies, and/or the method of representing such information. The chart training guide has been designed as a supplementary training material and is not intended for navigation.

P/N 13-06253 ..... ---

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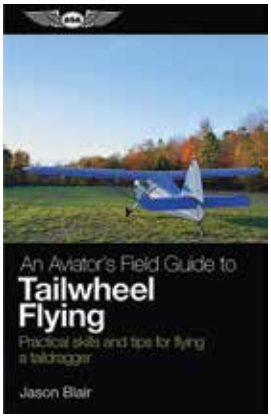
JEPPESEN FLIGHT TRAINING

ASA AVIATORS FIELD GUIDE TO MIDDLE ALTITUDE FLYING

In An Aviator's Field Guide to Middle-Altitude Flying, author Jason Blair shares his experience in a variety of piston, twin-engine aircraft commonly used to fly at altitudes between 10,000 and 25,000 feet MSL. This book covers the major phases of flight and the specific considerations for pilots who operate aircraft at these altitudes, including performance and fuel planning, emergencies, descent planning, navigation, weather, aircraft modifications, oxygen use, weight and balance, pilot qualifications, and insurance. With insight not found in other training manuals or part of typical flight training operations, and gained through his many years instructing and giving checkrides, Blair's book will help the pilot owner or operator evaluate the risks and challenges unique to middle-altitude flying, develop effective flight-planning practices, and take advantage of the increased efficiencies and opportunities offered through these higher operations.

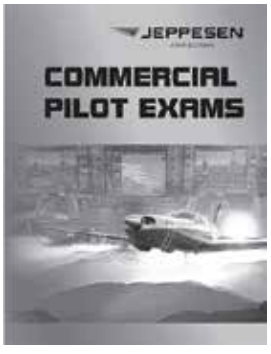
Softcover .....P/N 13-21257 ..... ---
eBook PD .....P/N 13-22630 ..... ---
eBook EB .....P/N 13-22629 ..... ---

ASA AVIATORS FIELD GUIDE TO TAILWHEEL FLYING



In An Aviator's Field Guide to Tailwheel Flying, author Jason Blair shares his experience in a variety of tailwheel-equipped aircraft. This book describes each of the major phases of flight and important considerations that will be useful for current or transitioning tailwheel pilots as they look to increase their proficiency. The discussion goes beyond physical flying skills into other aspects of tailwheels, such as operations in different makes and models or ages of aircraft, aircraft modifications, finding the right instructor, and challenges unique to tailwheels. Pilots of aircraft such as Cessna 180s, Cubs, Champs, Maules or other aircraft of similar type and size will find relevant and practical tips to improve their tailwheel flying. The result of many years taking notes previously passed on to his own students as an instructor, as well as serving as a designated pilot examiner for aircraft checkouts and checkrides, Blair's book compiles and shares this knowledge with the broader aviation community .....P/N 13-21258 ..... ---

JEPPESEN COMMERCIAL PILOT EXAM BOOKLET



Prepare for the FAA Commercial Pilot written exam with the new Commercial Pilot Exam Package which includes the Commercial Pilot Stage Exams and the End of Course Exam with all figures and images embedded within the booklet.

Features: The Commercial Pilot Exam Package is a new product that combines the Commercial Pilot Question Bank, Commercial Pilot Computer Test Supplement, and Commercial Pilot Stage Exams into one single product that helps better prepare students for the FAA Commercial Pilot written exam. Includes color images and figures that follow each question where applicable that helps with the ease of use.

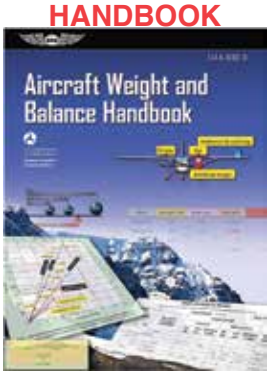
P/N 13-19592 ..... ---

INSTRUMENT PILOT HANDBOOK

An IFR handbook with a new approach. 86 pages of essential information to conduct instrument flights while building a basic foundation of instrument skills necessary for safe IFR flights. Includes IFR maneuvers and procedures, ATC clearances, communications, checklists, attitude instrument flying techniques, IFR flight planning and instrument approach procedures. IFR training syllabus and checkride preparation are included. Useful charts and information aid in quick organization and understanding of essential IFR rules and regulations. Book.

P/N 13-12451 ..... ---

AIRCRAFT WEIGHT AND BALANCE HANDBOOK



This book explains in detail the process to determine the weight and balance of any aircraft. This edition, has been updated to include information on new Light Sport Aircraft (LSA) and Very Light Jet (VLJ) categories. Applicable to both airplanes and helicopters, this book is a primary reference for all FAA Knowledge Exams for both pilots and mechanics. Soft cover, glossary, indexed, full-color illustrations.

Book .....P/N 13-01059 ..... ---
Ebook .....P/N 13-05934 ..... ---

JEPPESEN PILOT TRAINING

Private Pilot Syllabus.....P/N 13-25668 ..... ---
Private Pilot FAA Practical Test Study Guide
P/N 13-01258 ..... ---
Instrument/Commercial Record Folder .....P/N 13-06245 ..... ---
Flight Instructor Syllabus.....P/N 13-02053 ..... ---

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GLEIM FLIGHT TRAINING

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Designed to help you expedite your training for your private pilot certificate. A complete training program at a price you can afford. "User-friendly" self-study materials that are carefully designed to make it easy for you to learn and understand.

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P/N 13-24345 ..... ---

INSTRUMENT PILOT KIT

The Instrument Pilot Kit is designed to SIMPLIFY and FACILITATE your training for your instrument pilot rating. They prepare "user-friendly" self-study materials that are carefully designed to make it easy for you to learn and understand.

FAA Test Prep CD-Rom is included ..... P/N 13-05685 ..... ---
Deluxe Instrument Pilot Kit ..... P/N 13-11652 ..... ---
Deluxe Instrument Pilot Kit w/Audio Review ... P/N 13-11651 ..... ---

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The Instrument/Commercial Pilot Kit is designed to SIMPLIFY and FACILITATE training for your instrument and/or commercial pilot certificate(s). They prepare "user-friendly" self-study materials that are carefully designed to make learning and understanding easy. FAA Test Prep Test Prep CD-Rom is included.

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Deluxe Inst/Comm Kit w/ FAA Audio Review.... P/N 13-12125 ..... ---
Deluxe Comm. Pilot Kit ..... P/N 13-11650 ..... ---

COMMERCIAL PILOT KIT

SIMPLIFY and FACILITATE your training for your commercial pilot certificate. They prepare "user-friendly" self-study materials that are carefully designed to make it easy for you to learn and understand.

P/N 13-05684 ..... ---

FLIGHT / GROUND INSTRUCTOR + FOI KIT

The Gleim Flight/Ground Instructor + FOI Kit is an all-in-one training program designed to expedite training for the Flight/Ground Instructor rating. This kit contains everything you need (except airplane and instructor!) to become a Certified Flight Instructor and/or Ground Instructor.

P/N 13-11670 ..... ---

AIRLINE TRANSPORT PILOT KIT

The Gleim Airline Transport Pilot Kit is an all-in-one training program designed to expedite training for the ATP certificate. This kit contains everything you need (except airplane and instructor!) to become an Airline Transport Pilot.

- Save money by purchasing all required material together.
- Gleim guarantees you will pass your FAA Knowledge Test by using our interactive Online Ground School
- Become a better test-taker with unlimited practice sessions
- Study anywhere using the Test Prep Software
- Software available for iPad, Tablet, and Smartphone

P/N 13-11666 ..... ---

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GLEIM FLIGHT TRAINING

SPORT PILOT FAA KNOWLEDGE TEST

The primary purpose of the Gleim Sport Pilot FAA Knowledge Test book is to provide you with the easiest, fastest, and least-expensive means of passing the FAA knowledge test. Gleim Knowledge Transfer Outlines at the beginning of each study unit concisely present the relevant material needed to answer questions selected from previously released FAA test banks as well as questions that have been developed from current FAA reference materials.

P/N 13-03445 ..... ---

SPORT FLIGHT MANEUVERS

The Gleim Sport Pilot Flight Maneuvers and Practical Test Prep book is designed to simplify and facilitate your flight training. Through discussions and detailed illustrations, this book teaches you each flight maneuver or other subject area task (such as preflight preparation) prior to your flight lesson. Thus, you will be thoroughly prepared to spend more quality time in the airplane. This book will make your flight training easier to understand and is a must for study prior to your FAA practical test ....P/N 13-03446 ..... ---

SPORT SYLLABUS

Complies with both Part 61 and Part 141 training requirements. Complete ground and flight training with step-by-step lesson plans. 2nd edition. Each ground and flight lesson directs you to a specific chapter or page to read in the Gleim Sport Pilot FAA Knowledge Test, Pilot Handbook, Sport Pilot Flight Maneuvers, and/or FAR/AIM books. This cross-referencing allows you to review the material ahead of time and be thoroughly prepared for each lesson. .....P/N 13-03447 .....

SPORT PILOT FAA KNOWLEDGE TEST PREP SOFTWARE

Gleim's FAA Test Prep contains everything you need to study for the sport pilot FAA knowledge test in one unique, easy-to-use program. The Test Prep CD-Rom contains study outlines and figures and is a great complement to Gleim's Sport Pilot Test Prep Book book.

P/N 13-03448 ..... ---

GLEIM SPORT PILOT TRAINING RECORDS

The Pilot Training Record is a step-by-step lesson plan for your pilot training. Each lesson contains all of the required tasks for the lesson. Complies with both 14 CFR Part 61 and Part 141 training requirements.

P/N 13-07775 ..... ---

GLEIM REMOTE PILOT FAA KNOWLEDGE TEST PREP

The purpose of the Gleim Remote Pilot FAA Knowledge Test Prep book is to provide you with the easiest, fastest, and least-expensive means to prepare for and pass the FAA knowledge test for Remote Pilot and also the Remote Pilot recurrent training test. Learn the requirements to safely operate small Unmanned Aerial Vehicles (sUAS or drones) in the national airspace system. This book can be used in preparation for the following FAA airman knowledge test(s): Unmanned Aircraft – General (UAG) Unmanned General - Recurrent (UGR) ...P/N 13-21858 ..... ---

SPORT PILOT ENCYCLOPEDIA

Can be used three ways: 1) SP Prep = full immersion rapid prep for the written, 2) SP Encyclopedia = thorough review of relevant FAA publications essential to both the written and the oral exams, and/or 3) both as entertaining and informative leisure reading. The narrative is laced with humor, personal anecdotes, and frank sometimes blunt language that keeps the reader alert and involved while feeling secure and comfortable as if in the company of an experienced friend and mentor. Actual NTSB accident reports are woven into the discussion.....P/N 13-03706 ..... ---

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These text books by Irvin Gleim have helped thousands of pilots pass their private, instrument, commercial, multi-engine and seaplane ratings. Excellent guides to help you pass that

BOOKS & ACCESSORIES

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Private Pilot Flight Maneuvers ..... P/N 13-32440 ..... ---
Sport Pilot Flight Maneuvers, 2nd edition ..... P/N 13-03446 ..... ---
Insrument Pilot Flight Maneuvers..... P/N 13-02733 ..... ---
Commercial Pilot Flight Maneuvers, 6th edition P/N 13-32325 ..... ---
Flight Istructor Flight Maneuvers, 5th edition .... P/N 13-04897 ..... ---
Private Written Exam Book ..... P/N 13-32345 ..... ---
Flight Ground Instructor Written ..... P/N 13-32310 ..... ---
Instrument Written Exam..... P/N 13-32320 ..... ---
Commercial Written Exam..... P/N 13-32330 ..... ---
Fundamentals Of Instructing ..... P/N 13-32315 ..... ---
Aviation Weather Services 7-1st edition ..... P/N 13-32402 ..... ---
Sport Pilot Knowledge Test..... P/N 13-03445 ..... ---
FAR/AIM Book..... P/N 13-00522 ..... ---
Sport Pilot Syllabus, 3-2nd edition ..... P/N 13-03447 ..... ---
Private Pilot Syllabus, 7-1st edition..... P/N 13-00523 ..... ---
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Flight Computer..... P/N 13-00524 ..... ---
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Flight Bag ..... P/N 13-00527 ..... ---
Instrument Pilot Training Record..... P/N 13-07774 ..... ---
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Airline Transport Pilot FAA Test Book ..... P/N 13-19710 ..... ---

SOFTWARE

Requires appropriate Gleim book for access to charts, figures etc.
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Sport Pilot Knowledge Test Software..... P/N 13-03448 ..... ---
Airline Transport Pilot..... P/N 13-32227 ..... ---
Flight Engineer Knowledge Test Prep..... P/N 13-04893 ..... ---
AMT General Test Prep Software ..... P/N 13-11657 ..... ---
AMT Test Prep Airframe Software ..... P/N 13-11656 ..... ---
AMT Powerplant Test Prep Software..... P/N 13-11658 ..... ---
Private Pilot FAA Audio CD..... P/N 13-07668 ..... ---

ONLINE COURSES

Sport Pilot Online Ground School ..... P/N 13-11649 ..... ---
Sport Pilot Online Ground School
Private Pilot Online Ground School..... P/N 13-11661 ..... ---
Gleim Instrument Pilot Knowledge / FAA Test Prep
P/N 13-24638 ..... ---
Private Pilot Online Ground School
Commercial Pilot Online Ground School..... P/N 13-11664 ..... ---
Commercial Pilot Online Ground School
Flight Ground Instructor Online Ground School .. P/N 13-11669 ..... ---
FOI Online Ground School..... P/N 13-11668 ..... ---
AMT Online General Test Prep..... P/N 13-11654 ..... ---
AMT Online Powerplant Test Prep..... P/N 13-11655 ..... ---
AMT Online Airframe Test Prep..... P/N 13-11653 ..... ---

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FAR/AIM REGULATIONS

A&P TEXTBOOKS

FAA 8083 series handbooks are most up to date A&P textbooks available and are the official source of all questions given on the A&P General, Airframe, and Powerplant written tests, and are also the choice textbooks used in most US Part 147 A&P schools. Each is highly illustrated, full color, and beautifully designed. These ATB editions are carefully reviewed by a team of A&P instructors and correct dozens of technical errors found in original FAA editions.

Description	Paperback Part Number	Price	e-book Part Number	Price
General Handbook	13-09044	---	13-23194	---
Airframe Handbook Vol 1	13-23193	---	13-05932	---
Airframe Handbook Vol 2	13-23187	---	13-23189	---
Powerplant Handbook	13-23192	---	13-05929	---

A&P TEST GUIDES

ATB 2024 Test Guides directly match and are referenced to the content in the ATB Handbooks above. Each includes sample questions similar to those you will be given with your A&P written tests including answers, and detailed explanations. Oral and practical sections are included, plus the complete PTS/ACS for each section. A 6 month unlimited subscription to our SkyPrep online examination practice website is also given with each book.

Description	Paperback Part Number	Price	e-book Part Number	Price
General Test Guide	13-15923	---	13-14793	---
Airframe Test Guide	13-15924	---	13-14794	---
Powerplant Test Guide	13-15925	---	13-14795	---
Test Guide set of 3	13-23211	---	13-23210	---

A&P WORKBOOKS

ATB Workbooks directly match and are referenced to the content in the ATB Handbooks above. For each chapter in the Handbooks you will find the equivalent Workbook chapter including short and long answer exercises and a chapter final exam. Answers to short and long questions are included. For school use, final exam questions are not. Pages are perforate for easy removal. The ebook edition allows on screen answers and electronic turn-in of assignments.

Description	Paperback Part Number	Price	e-book Part Number	Price
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Airframe Workbook	13-23217	---	13-23216	---
Powerplant Workbook	13-23219	---	13-23218	---
Workbooks - set of 3	13-23240	---	13-23239	---

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This is a complete book set for the entire A&P program used by most Part 147 A&P schools featuring the FAA 8083-ATB Handbooks and matching test guides, workbooks, plus AC 43.13, and the current FARs. Besides their excellent quality, these are the single source of all FAA A&P written and oral test questions. Purchasing this full kit at once saves you time and money and allows you to explore the future sections of your classes as your interest in the various topics grows.

Attention Students:
Before ordering any kit, check with your instructor to be sure these are the exact books required by your school. If you find that your school's requirement is different, please contact us by phone or email so we can reconfigure the kit to be exactly as needed.

To Part 147 Schools and Training Organizations:
As all programs are different, custom book kits designed for your school's curriculum and teaching style are available to your specifications. Please call (970) 726-5111 and let us create this custom package for you.

Paperback Book .....P/N 13-18761 ..... ---

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Also included is the Professional Pursuit set of 400 flashcards designed in the popular format. Each card contains questions in the categories of General, Airframe, Powerplant, and Avionics. 1600 questions and answers in all. The spoken short answer format of these flashcards is excellent preparation for your FAA oral exams.

P/N 13-23228 ..... ---

Description	Paperback Part Number	Price	e-book Part Number	Price
General Test Guide	13-15923	---	13-14793	---
Airframe Test Guide	13-15924	---	13-14794	---
Powerplant Test Guide	13-15925	---	13-14795	---
Test Guide set of 3	13-23211	---	13-23210	---

GENERAL FAMILIARIZATION MANUALS

GenFam manuals from ATB and AeroEd are organized by ATA chapters and provide an overview of the systems and structures on that model aircraft including environmental, electrical, fire protection, flight controls, fuel and hydrauilic systems, landing gear, oxygen, pneumsatic, water and waste, doors, APUs and powerplants common on that aircraft. They are great tools for interview preparation, new hires at airlines and MROs and preparation for systems level classes. Available for the following aircraft.

Model Number	Paperback Part Number	Price	e-book Part Number	Price
737 300-500	13-09021	---	13-05943	--
737 NG	13-23209	---	13-16252	---
747 Classic	13-09025	---	13-05944	--
747-400	13-09026	---	13-05945	---
757	13-09027	---	13-05947	---
767	13-08776	---	13-08775	---
777	13-08083	---	13-08082	---
CRJ 700/900	13-09029	---	13-05950	---

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ATB AIRCRAFT MAINTENANCE

EASA AMT TRAINING

Fully compliant textbooks for the international B1 (Aircraft Mechanic) and B2 (Avionics Technician) licenses with approvals in over 30 countries.

EASA PART 66 MODULE 01 - MATHEMATHICS

Module 1 covers arithmetic, algebra, and geometry as they apply to aircraft maintenance. This module contains instruction in basic mathematics as required for the aviation maintenance technician as prescribed for the EASA Part 66 B1 and B2 license as well as the FAA A&P mechanic.

book .....P/N 13-23186 ..... ---
e-book .....P/N 13-23185 ..... ---

PHYSICS

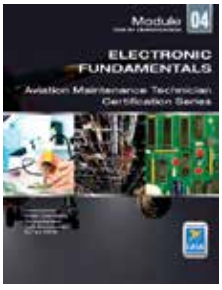
Module 2 covers matter, mechanics, fluid dynamics, thermodynamics, optics, and wave motion as they apply to aircraft maintenance. This book is fully compliant to EASA Part 66 standards for the B1 aircraft maintenance license and is developed as appropriate for use within a typical 2 year 2400 hour Part 66/147 program.

book .....P/N 13-23232 ..... ---
e-book .....P/N 13-23233 ..... ---

ELECTRICAL FUNDAMENTALS

This book covers basic electrical systems and concepts for the aviation maintenance technician, From basic theory to AC and DC generators and motors, each topic is explained in step by step detail. You will learn by understanding concepts, not just rote memorization and you will learn how and why each skill is useful in the day-day tasks of the aircraft technician in an aviation maintenance environment.

book .....P/N 13-23236 ..... ---
e-book .....P/N 13-15062 ..... ---



ELECTRONIC FUNDAMENTALS

Module 4 covers semiconductors, transistors, integrated circuits, circuit.

This book is fully compliant to EASA Part 66 standards for B1 aircraft maintenance requirements, and is developed as appropriate for use within a typical 2 year 2400 hour Part 147 program.

B1 edition book ...P/N 13-23229 ..... ---
B1 edition e-book P/N 13-16205 ..... ---
B2 edition e-book P/N 13-23205 ..... ---

DIGITAL SYSTEMS

Module 5 covers databusses, logic circuits, computer structure, microprocessors, multiplexing, fiber optics, the electromagnetic environment, digital systems, etc.

Today's aircraft increasingly rely on digital technology and complex electronic systems, not just for instrumentation, navigation, and communications, but today even for flight controls, system monitoring, maintenance planning, and more and more. Fiber optics and fly-by-wire is no longer the exception, but the rule. It is no longer limited to military, but now the basis of private and commercial aircraft both large and small. This module presents the B1 / B2 or A&P mechanical technician with what he or she needs to know for both a general understanding of these systems and the ability to work around them in an efficient and safe manner.

B1 edition book.....P/N 13-23223 ..... ---
B1 edition e-book.....P/N 13-23222 ..... ---
B2 edition book.....P/N 13-23208 ..... ---
B2 edition e-book.....P/N 13-23207 ..... ---

MAINTENANCE PRACTICES

Module 7 covers shop practices, tools, test equipment, drawings, wiring practices, riveting, welding, weight & balance, aircraft handling, maintenance procedures, inspection techniques and more. This book is fully compliant as EASA Part 66 module 7 for the B1 license and has been given approvals by numerous EASA based civil aviation authorities.

B1 edition book ...P/N 13-16201 ..... ---
B1 edition e-book P/N 13-22420 ..... ---
B2 edition e-book P/N 13-23224 ..... ---

AERODYNAMICS

Module 8 covers aerodynamics, flight theory, aircraft stability and dynamics, etc. as they apply to aircraft maintenance. This book is fully compliant as EASA Part 66 module 8 for the B1 and B2 license and has been given approvals by numerous EASA based civil aviation authorities.

B1 edition e-book P/N 13-23237 ..... ---

HUMAN FACTORS

Module 9 covers human factors as they relate to the aircraft maintenance environment including physiology, psychology, communication, team building, safety, etc. Also included in this manual is a detailed description of the the MEDA model (Maintenance Error Decision Aid) developed by The Boeing Company. Included is its philosophy and process, how to develop and implement the program, along with sample MEDA forms and advice on how to complete it while getting the most of the program.

This book is fully compliant as EASA Part 66 module 9 for the B1 and B2 license and has been given approvals by numerous EASA based civil aviation authorities.

book.....P/N 13-15922 ..... ---
e-book.....P/N 13-14792 ..... ---

PROFESSIONAL PURSUIT

A set of 400 popular style flashcards with A&P categories of General, Airframe, Powerplant, and Avionics, based on the knowledge required for the FAA A&P exams. Have fun while learning and testing yourself, fellow students, co-workers, and even your boss. Excellent practice for the FAA oral exams. EASA students will also find these an excellent resource for your Cat-A, B1 and B2 studies. The General category will relate to modules 1, 2, 3, 6, 7, and 8. The Airframe category will relate to module 6, 7, and 11. Powerplant to modules 15, 16, and 17. Avionics to modules 4, 5, 13, and 14.....P/N 13-23202 ..... ---

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Fully compliant textbooks for the international B1 (Aircraft Mechanic) and B2 (Avionics Technician) licenses with approvals in over 30 countries.

AVIATION LEGISLATION

Module 10 covers Part 145 and 147 organizations, certifying staff, aircraft and parts certification, air operations and continuing airworthiness. For schools and students first exploring the EASA system from non-EASA NAAs, this is also a great way to obtain an initial overview of EASA, its structure, and its differences from more familiar regulatory systems.
e-book .....P/N 13-16206 ..... ---

STRUCTURES & SYSTEMS

Module 11 covers turbine airplane systems for the B1 technician from environmental, electrical, fuel, gear, electrical, instrumentation, hydraulics, etc. This book is fully compliant as EASA Part 66 module 11a for the B1 license and has been given approvals by numerous EASA based civil aviation authorities.
book .....P/N 13-23235 ..... ---
e-book .....P/N 13-23234 ..... ---

EASA PART 66 MODULE 14 B2 - PROPULSION

This module 14, written for the B2 avionics technician, covers the basics of turbine engines along with increased detail on the electronic controls, and monitoring systems that contribute to the exceptional efficiency and reliability which both industry and the traveling public demands. A basic understanding of each engine system and its relevant components provides the background needed to understand not just the electronic functions, but how and why each electronic system contributes to provide value to overall operations and reliability. Following completion of this module the technician should be familiar with engine starting techniques, basic operations, and the meaning and causes of both normal and abnormal indications.
book.....P/N 13-23221 ..... ---
e-book.....P/N 13-23220 ..... ---

TURBINE ENGINES

Module 15 covers turbine engine performance, types, sections and systems, operation, indications, inspection, maintenance, storage, and more.
EASA Part 66 compliant Module 15 on Gas Turbine Engine Maintenance for Part 66 B1.1 and B1.3 airplane and helicopter certification.
book .....P/N 13-23226 ..... ---

PROPELLERS

An EASA Part 66/147 approved manual on propellers and controls compliant as Module 17A for B-1.1 and B-1.2 students. A very in depth manual on modern propellers and propeller control systems covering from fixed pitch wood through state of the art full feathering, reversing, FADEC controlled metal and composite systems. All systems are covered including various types of pitch control, synchronization, ice control, vibration and resonance, maintenance and testing procedures and preservation and storage techniques.
book .....P/N 13-15921 ..... ---
e-book .....P/N 13-14790 ..... ---

B1.1 COMPLETE SET OF 13

B1.1 turbine airplane license set includes above modules 1-Math, 2-Physics, 3-Electrical Fundamentals, 4-Electronic Fundamentals, 5-Digital Instrument Systems, 6-Materials and Hardware, 7-Maintenance Practices, 8-Aerodynamics for AMTs, 9-Human Factors, 10-Aviation Legislation, 11-Turbine Aircraft Structures and Systems, 15-Gas Turbine Engines, and 17-Propeller Systems.
e-book set.....P/N 13-23241 ..... ---

AC43.13 1B/2B

Acceptable Methods of Aircraft Inspection and Repair. FAA's "bible" for A&Ps and aircraft homebuilders detailing the proper methods for thousands of maintenance tasks on non-pressurized aircraft under 12,500 pounds. Used by every A&P student; required for every light aircraft mechanic, and a constant reference for aircraft builders and all those who do their own maintenance.
book .....P/N 13-06923 ..... ---
e-book .....P/N 13-05926 ..... ---

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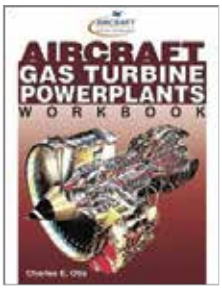
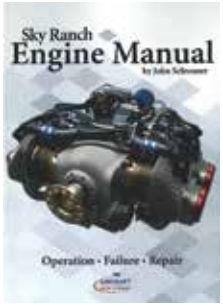
Fully compliant textbooks for the international B1 (Aircraft Mechanic) and B2 (Avionics Technician) licenses with approvals in over 30 countries.



GAS TURBINE POWERPLANTS

Exceeding A&P standards, this textbook is the most up-to-date, in-depth, book available on the design, theory, maintenance, and operation of aircraft turbine engines. Each system is explained showing design, function, operation, inspection, maintenance, and troubleshooting procedures. It's companion workbook, gives questions, answers, and explanations helping you understanding each section of the text.

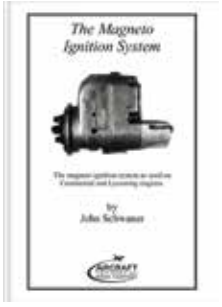
textbook book.....P/N 13-19842 ..... ---
textbook e-book...P/N 13-23200 ..... ---
workbook e-book.P/N 13-05865 ..... ---



SKYRANCH ENGINE MANUAL

Sky Ranch Engine Manual thoroughly covers the operation, inspection, and maintenance of the Lycoming and Continental piston aircraft engine, including a very comprehensive troubleshooting guide. This book goes beyond the basic theory and construction of aircraft reciprocating engines, but instead focuses on the practical aspects for mechanics and operators of why things go bad, how to repair them, and most important; how to keep them from failing in the first place.

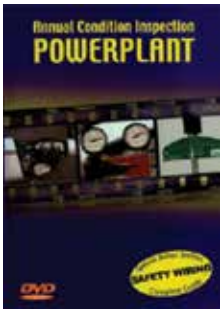
book .....P/N 13-09912 ..... ---
e-book .....P/N 13-05971 ..... ---



THE MAGNETO IGNITION SYSTEM

A treasure trove of information about the Bendix and Slick magnetos used on virtually all piston aircraft engines. This book covers everything you want to know about how your aircraft igni-tion system works. It is highly illustrated with photographs, drawings, graphs, and tables. You'll want to add this book to your maintenance library.

book .....P/N 13-13086 ..... ---
e-book .....P/N 13-05972 ..... ---



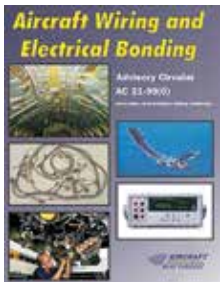
THE ANNUAL CONDITION INSPECTION - POWERPLANT DVD

A&P instructors from Redstone College give a step by step demonstration of an annual inspection of a Lycoming 0-360 engine from AD search through compression, ignition, induction, exhaust, cooling, electrical systems, oil and filters, propeller through the test flight and log entries; along with many hints and tips from the professionals. Spartan College instructors Tim Guerrero and Vaughn Dowell take you through a step by step demonstration of a 100 hour inspection of the powerplant section of a Lycoming 0-360 powered Piper Archer.

DVD.....P/N 13-23184 ..... ---

AMT LOG BOOK

This logbook is the most important document you will own for your career in aircraft maintenance. The data within will serve as a vital record each time you seek a new rating or an advancement or change in your job. We urge you to carefully record each task you complete. The more detailed your entries, the more they will help you to prove your qualifications when you need to do so. From your first day in school and throughout your career, get in the habit of writing it down. Did you help change a tire on a Cessna 150? Did inspect and replace a blade on a CF-6? Document it. These records will show not just what you are qualified to do, but that you are disciplined enough to keep the record. For EASA students and apprentices, these entries will prove your on-the-job experience and thus eligibility for your final license application. Contains 226 pages and over 2000 entries. Columns on each page include: date, equipment type, registration number description of work performed, and supervisor or instructor's name.....P/N 13-23230 ..... ---

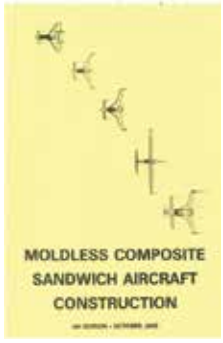


AIRCRAFT WIRING AND ELECTRICAL BONDING

This is a highly detailed manual published by by Aircraft Technical Book Company under license by the Australian Civil Aviation Safety Authority (CASA) presenting indepth instructions for aircraft electrical work covering topics from aged wiring inspection to modern fiber optic installation, inspection and repair.

Material selection, circuit design, harness building, connectors, circuit protection, soldering, lacing, sealing, electrical bonding, grounding, repairs, and all other related skills are covered in a practical, no nonsense manner offering complete guidance to the A&P technician working with small and large aircraft electrical systems to commercial and military standards.

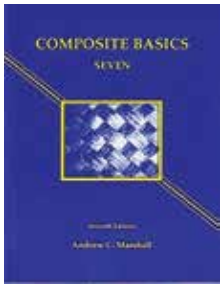
Book .....P/N 13-11205 ..... ---
E-Book.....P/N 13-11236 ..... ---



MOLDLESS COMPOSITE SANDWICH CONSTRUCTION

4th edition by Burt Rutan, This is a step-by-step manual for the beginner working on composite aircraft designs including templates for the practice construction of several parts. If the steps are studied and followed carefully, a first time builder can work confidently with these materials.

book .....P/N 13-11600 ..... ---



COMPOSITE BASICS

This manual explains the theory, working techniques, and details of various types of glass, carbon and kevlar fibers, resins, adhesives, foams, and honeycombs for light airplane construction and repair. Further sections include the basics of manufacturing and design methods and are extremely relevant for those employed by component manufacturers and those involved in aircraft design projects. Tooling and manufacturing methods, designing, stress, loads and load testing, vacuum bagging, autoclaves, and more are discussed in a technical, yet understandable manner.

book .....P/N 13-18000 ..... ---
ebook .....P/N 13-09023 ..... ---

CONSTRUCTION OF TUBULAR STEEL FUSELAGES BOOK

Step by step instructions on how to construct a perfect tubular steel fuselage. It is the result of hundreds of hours of development in the shop doing rapid prototyping of perfectly symmetrical and dimensionally accurate fuselages and assemblies without special jigs.

book .....P/N 13-03707 ..... ---
e-book .....P/N 13-05970 ..... ---

AIRCRAFT RIGGING

Rigging has a large influence on performance and is often the most easily changed. This book continues on where most instructions leave off and provides answers to the many questions that arise when building or rigging an airplane. Factors driving various rigging geometries are discussed, and methods and tools for measurement are illustrated for many different configurations.

Book .....P/N 13-09032 ..... ---
e-Book.....P/N 13-05955 ..... ---

BV

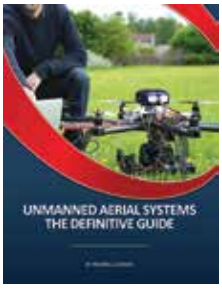
EASA AMT TRAINING

Fully compliant textbooks for the international B1 (Aircraft Mechanic) and B2 (Avionics Technician) licenses with approvals in over 30 countries.

AIRCRAFT SYSTEMS FOR PRO PILOTS

Written for the professional pilots program at Embry Riddle Aeronautical University, this highly illustrated book describes the theory and operation of all major airframe and engine systems from general aviation to commercial airliners from the perspective of the pilot who must understand and operate them.

e-book .....P/N 13-23212 ..... ---



UNMANNED AERIAL SYSTEMS

A very complete study guide and workbook developed by Purdue University to help you pass the FAA exams on for Part 107 Commercial Drone Pilot. Covers all regulations, autonomous flight, aircraft structure, weather, payload integration, explaining not just the facts, but why they are so and how they will effect your day to day operations.

book .....P/N 13-19845 ..... ---

FLIGHT TESTING HOMEBUILT AIRCRAFT

Sooner or later, every homebuilder becomes a test pilot; not just to determine it is safe, but to establish the usable envelope by which you will fly it for the next 20 years. In a step by step methodical manner, this book shows you how to explore your aircraft's performance and identify problems that crop up, even in the most well proven designs.

book .....P/N 13-23179 ..... ---
e-book .....P/N 13-23180 ..... ---

ANATOMY OF A SPIN

A detailed study of stall-spin in light airplanes. Written by John Lowery, highly experienced in both pilot training and aircraft flight testing, this book emphasizes NASA data on stalls and spins in general-aviation aircraft and including interviews with factory test pilots together with data from aircraft manufacturers. Added to these are the author's own extensive experience in both high-performance and general-aviation aircraft. Coverage includes the stall and stall speed, multi engine characteristics, T-tail consideration, the effect of high lift devices, asymmetrical thrust, the effect of CG, how the stall leads to and affects the spin, inverted and flat spins, stall/spin recovery techniques and much more.

book.....P/N 13-02080 ..... ---
e-book.....P/N 13-23198 ..... ---

THE RIGHT SEAT

The Right Seat is an excellent introduction to flying for pilots' companions and would-be pilots. Authored by noted aviation writer Avram Goldstein, CFII, this book lays a good foundation for that first lesson on the way to the private ticket. The Right Seat clearly explains in easy-to-understand text with illustrations: how the airplane flys, how the instruments work and how to read them, how to navigate, how to communicate, what to do if anything should happen to the pilot...

book .....P/N 13-23196 . --- e-book P/N 13-09045 .....---

27 YEARS OF THE RVATOR

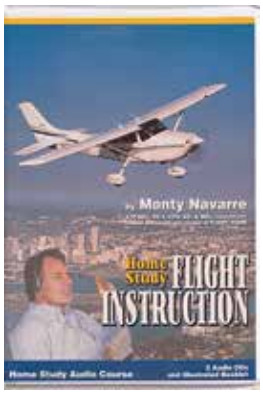
The complete collection of technical, builder assist, safety & maintenance and product evaluations from Vans Aircraft RV-ator from 1980-2006, organized in the order in which you build, fly and maintain your aircraft. No more searching stacks of old newsletters. Its all here.

book .....P/N 13-23182 ..... ---
e-book .....P/N 13-05979 ..... ---

FIBERGLASS 101

This video demonstrates in great detail the type of non-structural fiberglass work common on metal airplanes such as the Vans RV series, including the various fillets, fairings, wheel pants, and cowls. This video is not finely produced, but the vast amount of practical information more than makes up for it. 36 years experience in a 2 hour film.

DVD.....P/N 13-23195 ..... ---

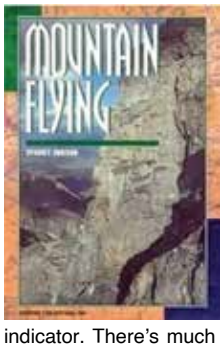


HOME STUDY FLIGHT INSTRUCTION

Useful at any level of experience, the Home Study Flight Instruction program is excellent both as a preflight instructional tool and as a refresher course. Written by Monty Navarre, creator of Flight Guide, the program brings his thousands of hours of flight experience into the cockpit with you. The Program is comprised of approximately two hours of efficiently organized instruction. Narrated by Dr. Nick Miller, Flight Guide editor and on-staff pilot, the audio portion is designed to be used in conjunction with the provided instructional booklet. The booklet includes detailed reference diagrams and even a quiz at the end of the course to test your comprehension.

The course moves from an introduction, to the controls, to straight-and-level flight, through turns, climbs, stalls, takeoffs and landings, approach procedures and emergency procedures.

CDs.....P/N 13-23197 ..... ---
Download.....P/N 13-16203 ..... ---



MOUNTAIN FLYING

Not quite as detailed as Mountain Flying Bible, but for learning the techniques of mountain flying and operating from remote high altitude airstrips, it is in our opinion, the best value for the dollar of all of Sparky's books.

Comprehensive guidance from an expert. Mountain flying has its own rules. This is the book that explains them with clarity and authority. Organized to follow the sequence of a typical flight, the book covers preflight, takeoff, en-route, arrival procedures, and landing. The author discusses fuel management, the magnetic compass, and the effects of high-altitude flying on weight and balance and the airspeed indicator. There's much more in this unique book, and it's a "must" for every pilot who flies into mountainous terrain.

book.....P/N 13-02082 ..... ---
e-book.....P/N 13-23199 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

ROD MACHADO FLIGHT TRAINING

ROD MACHADO'S HOW TO FLY AN AIRPLANE HANDBOOK

This valuable one-stop handbook contains the information necessary to: Learn the basic fundamentals of flying any airplane. Make flight training easier, less expensive and more enjoyable. Master all the private and commercial checkride maneuvers. Learn the "stick and rudder" philosophy of flying an airplane. Prevent an airplane from accidentally stalling and spinning. Allow you to learn to land an airplane quickly and enjoyably. Make you a better instructor by providing unique teaching strategies and explanations for student training.

Book .....P/N 13-15937 ..... ---

ROD MACHADOS PRIVATE / COMMERCIAL PILOT HANDBOOK

Flying is fun, and with Rod Machado's Private/Commercial Pilot Handbook, learning about flying is now fun, as well. This book prepares you for the FAA private pilot knowledge exam and the FAA commercial pilot knowledge exam (when you're ready to study for the commercial exam, of course)

If you want to learn to fly, or even just learn about what makes a plane fly, you'll find this lavishly illustrated, fast-paced book to be the best available guide. Written in a clear and witty style, the Private/Commercial Pilot Handbooks contains more than 1,200 illustrations and photos that are a standalone education about why we can fly.

Studying for your private pilot oral and knowledge exams? Everything you need is in this book. It's not just a beginner's book—it's a comprehensive and useful reference resource for private and even professional pilots. As one flight student said, "This handbook explains why things are the way they are, in a way that's easy to understand. I learned lots of things in Rod's book that I had not read ANYWHERE else, despite years of reading aviation literature."

Rod has been teaching people how to fly airplanes since 1973. His highly acclaimed teaching methods have established him as one of aviation's most respected teachers. Using analogies, memory aids, clear and detailed graphics and a little humor, Rod reduces the complexity of all aviation subjects (aerodynamics, meteorology, navigation, airspace, etc.) to a level that even the non-technical person can easily understand. Simply stated, Rod Machado makes learning about flying a fun and enjoyable experience.....P/N 13-24374 ..... ---

ROD MACHADO'S PLANE TALK

A collection of Rod Machado's most popular aviation articles and stories from the last 15 years. Rod Machados Plane Talk contains nearly 100 articles covering flights of fun and knowledge that will stimulate your aviation brain and tickle your funny bone. In addition to the educational topics listed below, this 456 page book contains articles on topics such as higher aviation learning, the value of aviation history, aviation literature, aviation art and how an artists perspective can help you better understand weather. 456 page book.

P/N 13-03155 ..... ---

INSTRUMENT RATING CHECKRIDE REVIEWER

The combination of a book that has enough "tech" but is still usable was the motivation behind this manual. It's a book that not only gives you a detailed step-by-step plan for your instrument checkride, but also provides the tips and tricks of the IFR system that will keep you safe .P/N 13-12019 ..... ---

AVIATION WEATHER

Without a doubt, the best and clearest book on weather as it pertains to pilots that I have seen. Aviation Weather is designed to help the student of aviation understand ther atmosphere in which he or she operates. It also serves as a valuable reference source for pilots at all levels. Whether your connection to flying is as a new student, a certified pilot, controller, dispatcher, scientist, engineer, or an interested passenger, Aviation weather will help you understand the strong interdependence of aviation and meteorology through over 300 full color illustrations, a minimum of mathematics, and a maximum of practical information.

P/N 13-19385 ..... ---

CESSNA AIRCRAFT MANUALS

The handbook is designed: To help you operate your plane with safety and confidence. To more fully acquaint you with the basic performance and handling characteristics of the airplane. To more fully explain your plane's operation than is permissible to set forth in the airplane flight manual.

VISIT OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM TO SEE THE MANUAL FOR YOUR CESSNA AIRCRAFT

PIPER AIRCRAFT MANUALS

The handbook is designed: To help you operate your plane with safety and confidence. To more fully acquaint you with the basic performance and handling characteristics of the airplane. To more fully explain your plane's operation than is permissible to set forth in the airplane flight manual.

VISIT OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM TO SEE THE MANUAL FOR YOUR PIPER AIRCRAFT

MOONEY, GRUMMAN, DIAMOND STAR AIRCRAFT MANUALS ALSO AVAILABLE. SEE WWW.AIRCRAFTSPRUCE.COM

A & P TEST/STUDY GUIDE BUNDLE

Within this kit, you'll have all the test preparation essentials needed to ace your exams. Kit items are also sold individually.

Kit includes:

- A & P Airframe Test Guide with Oral & Practical Study Guide.
- A & P General Test Guide with Oral & Practical Study Guide.
- A & P Power Plant Test Guide with Oral & Practical Study Guide

A&P Test/Study Guide Bundle

P/N 13-08042 ..... ---

Additional Items

Jepp A&P Tech General Study Guide .....P/N 13-01188 ..... ---
Jepp A&P Tech Airframe Study Guide .....P/N 13-03741 ..... ---
Jepp A&P Tech PowerPlant Study Guide ...P/N 13-01195 ..... ---

MULTI-ENGINE FLYING

Multi-Engine Flying, by Paul Craig is a thorough and complete training manual on multi-engine flight covering multi-engine aerodynamics, normal and emergency procedures, multi-engine performance, and both simple and advanced aircraft systems. Advanced systems, including turboprop and operations common to high performance commercial aircraft are then discussed including high altitude operations, and modern glass cockpit systems.

Book .....P/N 13-07604 ..... ---

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PROFLIGHT PRE SOLO WRITTEN EXAM

This exam contains a total of 50 questions: 20 general questions, 10 regarding your training aircraft, and 20 regarding your local flight environment. Use of reference materials during this exam such as your training aircraft's Operator's Manual and local aeronautical charts is permitted.

P/N 13-10441 ..... ---

BIENNIAL FLIGHT REVIEW

Complete BFR in one small package! This is by far the most consise and well organized flight review book on the market. It is full of checklists and handy procedures as well. Targeted for the aviator who wants to brush up on the rules and regs and get up in the air and have some fun!

P/N 13-05739 ..... ---

INSTRUMENT FLIGHT REVIEW

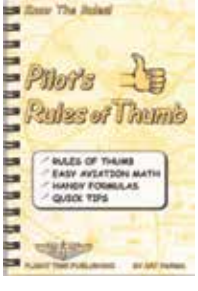
A shortcut to IFR Review! You can't beat this. This is the most incredible organization of IFR rules, regulations, tips and information avialable. Includes fully illustrated flight maneuvers and procedures, clearances, approaches, flight planning and more!

P/N 13-05740 ..... ---

PILOT'S POCKET HANDBOOK

The next best thing to having that brain chip implant! An extremely usefull collection of everyday aviation facts, figures and neat stuff! Includes a world time chart, aircraft country codes, math and conversions, standard and emergency checklist, abbreviations, get the idea?

P/N 13-05741 ..... ---



PILOT'S RULES OF THUMB

Don't fly by the seat of your pants, use your Thumbs! Here is the only book of it's kind. This collection of helpful rules and tips is useful to barnstormer and jet fighter pilot alike.

P/N 13-05742 ..... ---

PILOT'S RADIO COMMUNICATION GUIDE

This 70-page review guide is designed as a quick reference guide or radio communications training self study guide. This covers VFR & IFR radio communications. Build your confidence by knowing what to say and when. Designed to fit in your flight bag, size: 6in x 9in

P/N 13-12022 ..... ---

AVIATION ACRONYMS, CONTRACTIONS, AND MNEMONICS

A complete pilot resource for aviation acronyms and contractions for every sector of aviation. Written by a pilot for pilots, this book provides instant answers to weather reports with confusing codes and aviation material with undefined acronyms. This book has been in constant publication since 2004 and is frequently updated. For free lifetime updates, register your book (instructions included). 90 pages. Size 5" x 8".

P/N 13-12024 ..... ---

LYCOMING GASKET POSTER

Sized at 26" x 39". True-to-size poster of the Lycoming Engine gasket selection .....P/N 07-26827 ..... ---

LYCOMING EXPANDED ENGINE POSTER

Sized at 26" x 39" with a depiction of a standard disassembled 6 cylinder angle head Lycoming Engine with the orientation and location of parts.

P/N 07-26826 ..... ---

GUARANTEED PASS - HELICOPTER FLASH CARDS

This package includes 240 easy to read, soft yellow cards -- not flimsy paper -- which will help you pass your FAA written and oral (checkride) helicopter exams. Card size approximately: 4.25" x 2.75" - a stack of cards approximately 2in high.

P/N 13-12029 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

PILOT GUIDES - CALENDARS

AIRPORTS OF MEXICO

First complied by Baja Bush Pilot founder Arnold Senterfitt, Airports of Mexico is based on hundreds of hours of flying throughout Mexico. Rewritten by Jack McCormick, this new 20th edition includes both Baja and mainland Mexico, features over 1100 airports/ airstrips, all seaports and heliports, border crossing information, all international airports, information on flying in Mexico, discounts on hotels, Mexican insurance, group trips and fees. Over 150 airports are fully diagramed and are listed alphabetically. All in a convenient light weight, smaller, snap-ring binder designed for easy to use in the cockpit. A must for every pilot flying trips to Mexico. P/N 13-01028 ..... ---

DEEP INSIDE YOUR ROTAX

If you live for the thrill of an airshow, the 2025 My Bombshells Airshow Calendar will bring those adrenaline-pumping days to life all year long. Packed with jaw-dropping photography from some of the best aviation photographers in the world, this calendar is a must-have for aviation enthusiasts who want to relive the magic of airshows every day.

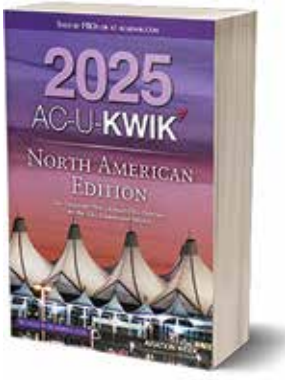
No pin-up models here – this calendar is TOTALLY SAFE FOR WORK (SFW) and 100% dedicated to the beauty and power of aircraft in flight. But if you're looking for something a little more... cheeky, check out our My Bombshells Warbird Pin-Up Calendar for a flirty twist!

The 2025 My Bombshells Airshow Calendar captures the heart-pounding excitement of airshows like never before, featuring iconic aircraft in stunning compositions that transport you right back to the flight line. It's perfect for aviation lovers, collectors, and anyone who appreciates the beauty and power of flight.

With its limited-edition run, this calendar isn't just a way to track the days – it's a piece of aviation history you can hang on your wall. Whether you're a seasoned airshow attendee or just someone who loves the roar of engines overhead, this calendar will make your year unforgettable.

Specifications: • Folded Dims: 9-1/2" x 12" • Hanging Dims: 19" x 12"
P/N 13-25749 ..... ---

ACUKWIK AIRPORT / FBO DIRECTORY

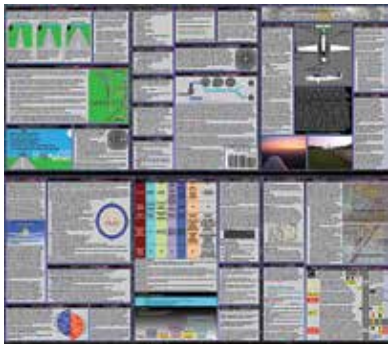


The AC-U-KWIK North American Edition is business aviation's original directory for connecting flight planners to aviation service providers in the United States, Canada, Mexico and the Caribbean. This annual directory provides detailed airport, FBO, ground transportation, charter, caterer, handlers, and maintenance listings.

For more than 25 years, AC-U-KWIK has been the highest regarded the business aviation industry to provide the most accurate and reliable pre-flight planning data available. Every day, tens of thousands for aviation professionals use and AC-U-KWIK products in their day-to-day operations.

North American Airport / FBO Directory .....P/N 13-06384 ..... ---
Acukwik Managers World Edition.....P/N 13-06383 ..... ---
Acukwik International Edition.....P/N 13-06385 ..... ---

T-REF FLIGHT TRAINING REFERENCES



This is a hardcopy product, measuring 8.5" x 11" when closed and 23.375" x 11" when fully opened! The first of two T-Refs dedicated to private pilot training. This first T-Ref provides many important acronyms that a student pilot must know, as well as important information about the airport environment, hypoxia, landing tips, and many other important elements of flying!

Private Pilot T-Ref 1 .....P/N 13-12742 ..... ---
Private Pilot T-Ref 2 .....P/N 13-12743 ..... ---
Instrument Pilot T-Ref 1.....P/N 13-12740 ..... ---
Instrument Pilot T-Ref 2.....P/N 13-12741 ..... ---
Weather T-Ref .....P/N 13-12744 ..... ---
T-Ref Complete Package .....P/N 13-12745 ..... ---

GHOSTS 2025 CALENDARS

13-01318

Renowned aviation photographer Philip Makanna has captured the essence of this era in his GHOSTS of The Great War and A Time Remembered, a large-format calendar that features his stunning, air-to-air, color photographs. In this edition, his images depict the beginnings of military aviation. The calendar continues through to the advanced aircraft that appeared at the war's end. Stunning images and an evocative day-by-day history of the aviation (and related) events of the period combine to describe the beauty, the romance and the tragedy of military aviation's early days.

Ghosts WWII- A time rememered.....P/N 13-01318 ..... ---
Ghosts WWI - The Great War .....P/N 13-06012 ..... ---
Ghosts of the Skies Book .....P/N 13-01319 ..... ---
Ghosts of the Skies II Book .....P/N 13-01957 ..... ---

2025 AIRCRAFT CALENDARS

The most popular Aircraft calendars in the industry! With outstanding photos of aircraft in flight, this is truly a must for the aviation enthusiast.

Sparta Ghost Warbirds.....P/N 13-06588-25 ..... ---
Sparta Shock and Awe.....P/N 13-06591-25 ..... ---

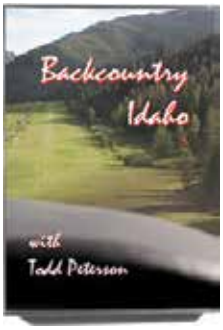
AVIATION DVDS

ALASKANS FLY ALASKA

Join the fun as Alaska pilots sharpen their skills in vast and varied Southwest Alaska, an uninhabited, untamed, and undeveloped wilderness. Experience the excitement of the possibilities open to the small plane pilot, flying low and slow through western Canada and Alaska. Come along as they fly though Canada, following the popular routes preferred by experienced small plane pilots. Explore Alaska's back country, where there are no roads and no people for hundreds of miles. Touch down on remote beaches, sandbars, and fields, in places only the bush pilot can go. Marvel at the breathtaking views of spectacular glaciers, ancient canyons, sun-bathed seascapes, and unsurpassed mountain ranges. Enjoy an enthusiastic look at possibilities open to the small plane pilot flying in Canada and Alaska.

P/N 13-07374 ..... ---

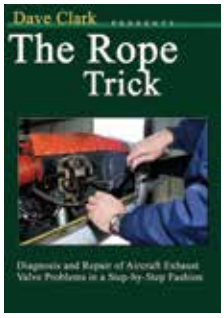
BACKCOUNTRY IDAHO



Pilots of all skill levels will truly enjoy the exhilaration and adventure of Idaho backcountry flying at its best with ... Backcountry Idaho. Visit some of the best backcountry airstrips in the Rocky Mountains. Explore scenic wilderness, vast pine forests, and steep canyons in search of pristine beauty and the next runway challenge. Fly right seat on the actual approaches and departures of these spectacular backcountry airstrips with Todd at the controls of his high-performance, custom designed, King Katmai.

P/N 13-06298 ..... ---

THE ROPE TRICK

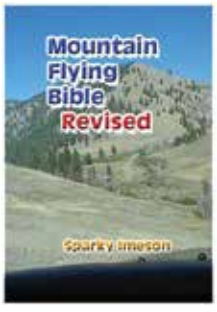


The diagnosis and repair of aircraft exhaust valve problems in a step-by-step fashion. Watch as Dave Clark walks you through the steps for inspecting valve clearances, reaming valve guides, and freeing stuck valves. This video can save you a lot of time and money.

Topics Included: • How to perform Lycoming SB 388C • How to check for valve wobble and tightness • How to identify problems on valve stems, guides, and seats • How to ream a sticky valve guide • How to free up a stuck valve without pulling a cylinder • How to choose the necessary tools and more!

P/N 13-10141 ..... ---

MOUNTAIN FLYING BIBLE REVISED



Learn the basic, intermediate and advanced techniques of mountain flying. Learn to anticipate how your airplane will perform in the mountains. Discover simple rules-of-thumb to enhance safety and simplify operations. Learn the weather information required for peace of mind and increased pleasure. 16 pages of color photos of backcountry strips covering the approach, landing and takeoff procedures.

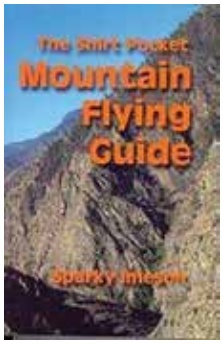
P/N 13-04035 .....---

DEEP INSIDE YOUR ROTAX

You can now see and understand what procedures are involved with the 150 and 300 hour inspection/rebuild services. Alan points out the places carbon accumulates, where the common areas of wear occur, and other signs indicating the possibility of potential failures. The specialized Rotax engine tools are demonstrated as to their function in removing various internal components. Installation and maintenance tricks are also demonstrated and explained for the purpose of heading off future engine failures that can lead to disaster. And More.

P/N 13-03370 ..... ---

THE SHIRT POCKET MOUNTAIN FLYING GUIDE



This is not a rehash of the Mountain Flying Bible. It includes new material and color photos throughout. There are 129-color pages of the 208 pages. What is Covered: Section 1 - Do's and Don'ts

• Section 2 - Basic Premises • Section 3 - Flying Canyons • Section 4 - Crossing Ridges • Section 5 - Turbulence & Va • Section 6 - Maximum Lift Flap Setting • Section 7 - How to Land an Airplane • Section 8 - Visual Illusions • Section 9 - Spot Method for Landing • Section 10 - Mountain Airstrip Operations • Section 11 - Mountain Weather.

Book .....P/N 13-04051 ..... ---

ASA PROFICIENT FLYING - THE VERY BEST OF BARRY SCHIFF DVD

Barry Schiff brings critical subjects to life in this 3-DVD set. Barry Schiff needs no introduction. He's known throughout the industry as a consummate aviator, author and educator with a passion for General Aviation like few others. His seemingly boundless experience and knowledge are surpassed only by his warm, rich writing style and unforgettable presentation techniques. In Proficient Flying Barry Schiff uses these educational skills to help pilots visualize techniques and procedures that can make them safer pilots. He brings critical subjects to life in this DVD series with more than 4 hours of instruction. Schiff's knack for guiding pilots through intricate aspects of flying makes these lessons invaluable and memorable, giving viewers true insight and understanding of the subjects presented ....P/N 13-19095 ..... ---

LIVING IN THE AGE OF AIRPLANES BLU-RAY

Living in the Age of Airplanes offers a fresh perspective on a modern-day miracle that many of us take for granted: flying. Produced and directed by Brian J. Terwilliger (One Six Right), narrated by Harrison Ford and featuring an original score from Academy Award® winning composer James Horner (Avatar, Titanic), the film takes viewers to 18 countries across all seven continents to illuminate how airplanes have empowered a century of global connectedness our ancestors could never have imagined.....P/N 13-20150 .....

ROTAX 912 INSTALLATION TIPS & TECHNIQUES

This presentation explains the most important details of preparing and installing th epopular Rotax 912 family of four stroke engines in your experimental homebuilt aircraft. This reliable, high performance engine will only perform safely if installed properly as specified by the Rotax installation guide. The important details in this guide are often misunderstood or even ignored completely resulting in catastrophic engine failures and dangerous flying situations. DVD Running time: 1.5 hours

P/N 13-04183 ..... ---

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Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

HOW TO LICENSE YOUR HOMEBUILT AIRCRAFT

This DVD will walk you through each step to successfully license your experimental amateur homebuilt aircraft. The actual FAA forms required are displayed on screen, and where to obtain them and how to fill them out. .....P/N 13-03609 ..... ---

HOMEBUILT HELP ELECTRICAL WIRING TUTORIAL

Explains and demonstrates the common procedures, tools and components required for the basic wiring of a homebuilt aircraft. Demonstrations of crimping, soldering, wire selection and wiring design with simple schematics that are applicable to a homebuilt electrical system. Video length is 1 hour and 20 minutes.

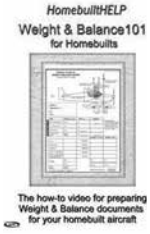
P/N 13-03578 ..... ---

METALWORKING 101

Targeted to the beginning student of pop-riveted metal kit plane construction. Ideal for the person who is contemplating the undertaking of a metal kit plane project. Takes you thru the actual construction of a Zenith rudder, from start to finish. While it can be used to supplement the construction guide supplied by the manufacturer with this rudder (a CH701 or CH601), it is actually intended to demonstrate to the beginning builder just what tasks and skills are required. General metal building procedures are explained and demonstrated.

P/N 13-03369 ..... ---

WEIGHT & BALANCE 101 FOR HOMEBUILT



Completing a homebuilt requires you to calculate and document the weight & balance figures for your plane and present them to the inspector...and for many homebuilders this task is confusing and complicated -- however, this video makes this task simple and easy to understand. The video makes it easy for you to understand the concepts required to perform your own weight and balance analysis on your aircraft and then document the findings for the inspection process.

P/N 13-04184 ..... ---

AIRCRAFT STRUCTURAL TUBING

3 DVD Set Includes: -4130 Chromemoly Airframe Construction (2 DVD set) -Repairing Structural Tubing. The 4130 DVD: Three EAA Technical Counselors (over 60 years' total experience) show you the procedures necessary to construct a complete airframe from plans.....P/N 13-13051 .....

REPAIRING STRUCTURAL TUBING

This class teaches measuring, geometry, straightening, cutting fishmouths, fitting, splicing, and welding to repair some fuselage damage. A fine companion to our full-length 2-DVD series, 4130 Chromemoly Airframe Construction. .....P/N 13-13044 ..... ---

RV-12 EMPENNAGE TAILCONE

This double disk DVD is the first in a series of videos being developed to cover the entire build process for the Van's RV-12 aircraft kit. It covers the complete empennage/tailcone kit as supplied by Van's Aircraft. It is a great starting place to begin your project – there are no prerequisite assemblies that need to be completed before starting. All in the exact sequence of building as specified by the construction manual. Approximately 2.5 hours in length and is divided into various video chapters to make navigation and review of desired sections fast and easy. They are completing production on the subsequent volumes of the RV-12 build (that are also sequenced to the sub-kits as provided by Van's Aircraft). .....P/N 13-09590 ..... ---

SCRATCH BUILDING BASICS FOR METAL AIRCRAFT

An excellent way to determine if building a homebuilt aircraft from scratch is right for you... you will obtain a full understanding of the trials, tribulations, joys and successes that this type of building process entails. You can't watch these guys at work and not learn something that might change the way you think about the process and people that build their own planes from scratch! Approximately 3.5 hours in length and is divided into 10 video chapters to make navigation and review of desired sections fast and easy. The DVD set includes web links to plans for building your own sheet metal brake and other tools used in this video (you can print the plans on your own printer).....P/N 13-04185 ..... ---

RV RUDDER WORKSHOP

This instructional video has 2 major sections: The first section contains an overview and demonstration of the tools and techniques that are required for building an RV aircraft. These specialized building techniques center around riveting with solid rivets - essential for the RV aircraft. Many specialized tools are required for this type of construction and are discussed and demonstrated. Techniques that are shown include: dimpling, countersinking, deburring, drilling, back riveting and pop riveting. A full discussion of the types of rivets that are used along with their important characteristics is included in this first section of the video. The tools for measuring proper rivet setting (rivet gauges) are shown and demonstrated. Some of the tools that are featured include: hand squeezer, pneumatic rivet gun, flush and universal rivet sets, dimple dies, back rivet sets, scotch-brite polishing wheel and deburring tools.....P/N 13-04791 ..... ---

EAA HINTS FOR HOMEBUILDERS - SHEET METAL - VOLUME 2

Since inception in 2008 EAA's instructional how-to video series has been viewed online several million times. Incorporating some of the more popular segments, first time aircraft builders, or multi-project builders will find useful hints, tips, and techniques on this DVD. Approximate Run Time: 93 minutes

P/N 13-21975 ..... ---

GAS WELDING - CHROMOLY

EAA – the authority on home built aircraft – presents the definitive how-to introduction to gas (oxyacetylene) welding. For the home builder working with chromoly tubing, gas welding provides an effective, reliable, and affordable way to weld. Whether you're a first-time builder or a multi-project veteran, this is the video for you. Earl Luce, an EAA SportAir Workshops gas welding instructor, is an expert on gas welding. He has welded more than 20 fuselages and is the man behind the Wittman Buttercup plans. Earl brings his wealth of experience in building aircraft with gas welding to you in this comprehensive, one-hour video. .....P/N 13-21972 ..... ---

SKYWARD TECH AIRCRAFT ENGINE REBUILDING

De-mystify the overhaul procedures on selected Continental & Lycoming engines. Videos begin with a dismantled engine, show the crankshaft being mounted on a stand and then proceed through complete assembly. These videos effectively present the step-by-step procedures of re-assembly.

Description	DVD Part No.	Price
Cont. 0-200 Rebuild	13-03208	---
Lyc. 0-320 Rebuild	13-04465	---
Lyc. 0-360 Rebuild	13-03210	---
Lyc. I0-360 Rebuild	13-03209	---

BV

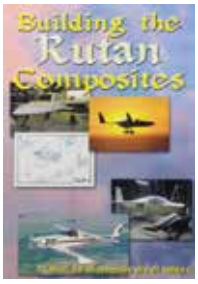
AVIATION DVDS

TIMELESS VOICES OF AVIATION

Now you can watch Timeless Voices in your own home. This DVD, a compilation of personal histories featured in the EAA AirVenture Museum, includes 23 fascinating interviews with participants of EAA's oral history project—Timeless Voices of Aviation. The production is the perfect blend of historical footage and timeless interviews highlighting stories of the past 100 years of powered flight. Jump into the cockpit with aviators of all backgrounds as they discuss topics ranging from their experiences in WWII, to aerobatics, to aircraft design, to racing, and more.

P/N 13-21973 .....---

BUILDING THE RUTAN COMPOSITES



This step-by-step instructional program features Burt Rutan and Mike Melvill proceeding through the complete foam-epoxy-fiberglass composite construction procedure as used on the VariEze, Long-EZ, Quickie, Q2, Dragonfly, Sea Hawk, Polliwagen and other composite aircraft. Also included is a formation flight by the Long-EZ, Defiant and VariViggen. A must for all composite aircraft builders. 1hr, 36 mins.

DVD .....P/N 13-04809 .....---

EAA SHEET METAL BASICS DVD

This new instructional video will provide you the basics of sheet metal application needed to build any metal kit aircraft. EAA SportAir Workshops instructor Mark Forss will walk you through the terminology, tools, and techniques required to build the aircraft of your dreams. Mark has taught hundreds of EAA members how to successfully build with sheet metal, and now you can learn those same skills at your own pace and in the comfort of your own home.

P/N 13-18211 .....---

EAA TIG WELDING CHROMOLY DVD

"Mr. TIG"™, Wyatt Swaim, is known throughout the world as a leading expert on TIG welding. The author of numerous articles on high technology welding, Wyatt is dedicated to training others to the level of Aerospace TIG Welding. Wyatt conducts advanced training seminars for EAA SportAir Workshops, motorsports teams, and is part of the trackside welding team at the Indianapolis 500. He is a regular TIG Welding instructor at EAA AirVenture Oshkosh. Now Wyatt brings his more than 30 years experience directly to you in this comprehensive approx.

P/N 13-18210 .....---

FROM THE GROUND UP VOL 1-13

EAA, in conjunction with Discovery Channel International, presents all 13 episodes of the television series From the Ground Up on 3 DVDs. TV's first how - to aviation program. Enter the exciting world of airplane homebuilding and restoration.....P/N 13-07442 .....---

FLYING SINGLE PILOT IFR

If you fly single pilot IFR, this video is for you. Explains risks involved and how to minimize them. Explores equipment requirement, organization, getting real time weather, staying ahead of the airplane, copilot selection and situational awareness.

(60 min) .....P/N 13-23850 ..... ---

HOW TO GET A FLIGHT REVIEW

Recommended for anyone preparing for a flight review. Covers the relevant areas of FAR 61.56. and what you need to know for the flight review. Includes the new airspace & weather reporting changes.

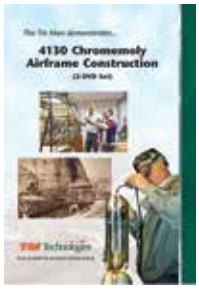
(50 min) .....P/N 13-23860 ..... ---

ONE SIX RIGHT

Experience an exhilarating documentary film that celebrates the unsung hero of aviation – the local airport – by tracing the life, history, and struggles of an airport icon: Southern California's Van Nuys Airport. Featuring thrilling aerial photography and a sweeping original score, the film dispels common misconceptions and opposes criticism of General Aviation airports. Through the love story of one airport, past to present, the film shares the timeless romance of flying with all ages. 73 minutes. Plays world wide on any NTSC DVD player.

DVD.....P/N 13-04571 ..... ---
Blu-Ray.....P/N 13-19618 ..... ---

4130 CHROMOLY AIRFRAME CONSTRUCTION



This video is highly recommended for anyone considering a steel tube fuselage aircraft. It covers the whole process: Workflow, welding rod selection, jigging, fitting, and welding. (Note: The discussions and advice are almost exclusively about oxyacetylene welding. TIG, GTAW, is mentioned only in passing.)

DVD .....P/N 13-04375 .....---

THE COMPLETE AIRLINE PILOT INTERVIEW COURSE

This DVD from Flightdeck Consulting has been produced and developed by airline pilots for airline pilots. This DVD includes: Eight Virtual Interviews to help you perfect your interview technique. Access to the "Airline Pilot Interview Work Booklet", an essential tool covering all aspects of your interview including psychometric testing, simulator check ride and panel interview. Simulator Assessment Guide. Psychometric Testing Information. Complimentary Email Support from professional airline interview consultants. Make an investment in your future and be "The Standout Candidate" at your interview..... P/N 13-08754 ..... ---

GETTING STARTED IN AEROBATICS

Produced in co - operation with the International Aerobatic Club, Getting Started in Aerobatics is a valuable introduction to the dynamic world of aerobatics. During the course of this program, you'll hear six legendary aerobatics pilots relate their years of experience and address topics that include the benefits of aerobatics, its history and background, training options, selecting the right instructor and equipment, and more. You'll also experience the thrill of an aerobatics flight lesson at the renowned Pompano Air Center.

(55 minutes).....P/N 13-40505 ..... ---

BV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

Part No.	Decription	Price
14-03117	C172K Air Force T-41a Flight Handbook	---
14-03089	C180 1953	---
14-03093	C180 1957	---
14-03095	C180 1959	---
14-03096	C180 1960	---
14-03097	C180 1963	---
14-03113	C180 1963-68 Floatplane Supplement	---
14-03098	C180 1964	---
14-03099	C180 1965	---
14-03101	C180 1967	---
14-03102	C180 1968	---
14-03103	C180 1969	---
14-03112	C180 1969-72 Floatplane Supplement	---
14-03104	C180 1970	---
14-03105	C180 1971-72	---
14-03106	C180 1973	---
14-03107	C180 1974	---
14-03108	C180 1975	---
14-03110	C180D 1961	---
14-03109	C180E 1962	---
14-03111	C180J 1975 Floatplane Supplement	---
14-03076	C185 Skywagon 1961	---
14-03072	C185 Skywagon 1961-65 Float Supplement	---
14-03077	C185 Skywagon 1964	---
14-03078	C185 Skywagon 1965	---
14-03073	C185 Skywagon 1966 Float Supplement	---
14-03079	C185 Skywagon 1966	---
14-03080	C185 Skywagon 1967	---
14-03074	C185 Skywagon 1967-68 Float Supplement	---
14-03081	C185 Skywagon 1968	---
14-03082	C185 Skywagon 1969	---
14-03075	C185 Skywagon 1969-72 Float Supplement	---
14-03083	C185 Skywagon 1970	---
14-03071	C185 Skywagon Float Supplement	---
14-03114	C185A 1962	---
14-03115	C185B 1963	---
14-00662	Cessna 120 & 140 1946-1948	---
14-00661	Cessna 140A 1949-51	---
14-00263	Cessna 150 1959-60	---
14-00552	Cessna 150A 1961	---
14-00264	Cessna 150B 1962	---
14-00265	Cessna 150C 1963	---
14-00266	Cessna 150D 1964	---
14-00267	Cessna 150E 1965	---
14-00540	Cessna 150F 1966	---
14-00541	Cessna 150G 1967	---
14-00542	Cessna 150H 1968	---
14-00543	Cessna 150J 1969	---
14-00544	Cessna 150K 1970	---
14-00545	Cessna 150L 1971	---
14-00546	Cessna 150L 1972	---
14-00547	Cessna 150L 1973	---
14-00548	Cessna 150L 1974	---
14-00549	Cessna 150M 1975	---
17-00151	Cessna 152 Aerobat 1979	---
14-00663	Cessna 170 1948	---
14-00664	Cessna 170A 1949-51	---
14-00665	Cessna 170B 1952-55	---
14-00666	Cessna 170B 1956	---
14-00668	Cessna 172 & Sky-hawk 1957-58	---
14-00669	Cessna 172 & Sky-hawk 1959	---
14-00696	Cessna 172 & Sky-hawk 1963	---
14-00667	Cessna 172 1956	---
17-00167	Cessna 172 RG 1985	---
17-00129	Cessna 172 Sim-bus W/integrated Autopilot	---
14-00694	Cessna 172B & Sky-hawk 1961	---
14-00695	Cessna 172C & Sky-hawk 1962	---
14-00763	Cessna 172E & Sky-hawk 1964	---
14-00764	Cessna 172F & Sky-hawk 1965	---
14-00765	Cessna 172G & Sky-hawk 1966	---
14-00766	Cessna 172H & Sky-hawk 1967	---
14-00767	Cessna 172I & Sky-hawk 1968	---
14-00768	Cessna 172K & Sky-hawk 1969	---
14-00769	Cessna 172K & Sky-hawk 1970	---
14-00770	Cessna 172L & Sky-hawk 1971	---
14-00771	Cessna 172L & Sky-hawk 1972	---
14-00772	Cessna 172M & Sky-hawk 1973	---
14-00773	Cessna 172M & Sky-hawk 1974	---
14-00774	Cessna 172M & Sky-hawk 1975	---
17-00124	Cessna 172R 180 Hp Pro Pilot Checklist	---
17-00126	Cessna 172R-im Aus with Nav III Glass Panel (Green Star)	---
14-00800	Cessna 175 & Skylark 1959	---
14-00684	Cessna 175 1958	---
14-00801	Cessna 175A 1960	---
14-00802	Cessna 175B 1961	---
14-00803	Cessna 175C 1962	---
14-00804	Cessna 177 & Cardinal 1968	---
14-00805	Cessna 177A & Cardinal 1969	---
14-00811	Cessna 177B & Cardinal 1975	---
14-00806	Cessna 177B 1970	---
14-00807	Cessna 177B 1971	---
14-00808	Cessna 177B 1972	---
14-00809	Cessna 177B 1973	---
14-00810	Cessna 177B 1974	---
14-00776	Cessna 182 & Skylane 1957-58	---
14-00775	Cessna 182 1956	---
17-00133	Cessna 182 Tim-bus w/integrated Autopilot	---
14-00777	Cessna 182B Skylane 1959	---
14-00778	Cessna 182C Skylane 1960	---
14-00779	Cessna 182D Skylane 1961	---
14-00780	Cessna 182E Skylane 1962	---
14-00781	Cessna 182F & Skylane 1963	---
14-00782	Cessna 182G & Skylane 1964	---
14-00783	Cessna 182H & Skylane 1965	---
14-00784	Cessna 182J & Skylane 1966	---
14-00785	Cessna 182K & Skylane 1967	---
14-00786	Cessna 182L & Skylane 1968	---
14-00787	Cessna 182M & Skylane 1969	---
14-00788	Cessna 182N & Skylane 1970	---
14-00789	Cessna 182N & Skylane 1971	---
14-00790	Cessna 182P & Skylane 1972	---
14-00791	Cessna 182P & Skylane 1973	---
14-00792	Cessna 182P & Skylane 1974	---
14-00793	Cessna 182P & Skylane 1975	---
17-00130	Cessna 182S 1997 - 2000 (Purple Star)	---
17-00131	Cessna 182T 2001 & Up (Yellow Dot)	---
14-01304	Cessna 188, 188a 1966-67	---
14-01305	Cessna 188, 188a 1968-69	---
14-01306	Cessna 188A, A188B 1970-71	---
14-01307	Cessna 188B & A188B AG Wagon 1972-73	---
14-01308	Cessna 188B & A188B AG Wagon 1974	---
14-01309	Cessna 188B & A188B AG Wagon 1975	---
14-01323	Cessna 190, 195, 195A, 195B 1946-1953	---
14-01324	Cessna 205 1963	---
14-01325	Cessna 205A 1964	---
14-01326	Cessna 207 Skywagon 1969	---
14-01327	Cessna 207 Skywagon 1970	---
14-01328	Cessna 207 Skywagon 1971-73	---
14-01329	Cessna 207 Skywagon 1974	---
14-01330	Cessna 207 Skywagon 1975	---
14-00458	Cessna 310 1955-1956	---
14-03358	Cessna T210N 1979	---
14-00457	Cessna 310B 1957-58	---
14-00456	Cessna 310C 1959	---
14-00455	Cessna 310D 1960	---
14-00454	Cessna 310F 1961	---
14-00453	Cessna 310G 1962	---
14-01372	Cessna 310H 1963	---
14-01373	Cessna 310J 1964	---
14-01374	Cessna 310J 1965	---
14-01375	Cessna 310K 1966	---
14-01376	Cessna 310L 1967	---
14-01377	Cessna 310N 1968	---
14-01378	Cessna 310P 1969	---
14-01379	Cessna 310Q 1970-72	---
14-01380	Cessna 310Q 1973	---
14-01381	Cessna 310Q 1974	---
14-01382	Cessna 310R 1975	---
14-01400	Cessna 320 1962	---
14-01401	Cessna 320A 1963	---
14-01402	Cessna 320B 1964	---
14-01403	Cessna 320C 1965	---
14-01404	Cessna 320D 1966	---
14-01405	Cessna 320E Skynight 1967	---
14-01406	Cessna 320F Skynight 1968	---
14-01422	Cessna 337 1965	---
14-01421	Cessna 337A 1966	---
14-01407	Cessna 337B 1967	---
14-01408	Cessna 337C 1968	---
14-01409	Cessna 337D Super Skymaster 1969	---
14-01410	Cessna 337E 1970	---
14-01411	Cessna 337F 1971	---
14-01412	Cessna 337F 1972	---
14-01413	Cessna 337G 1974	---
14-01414	Cessna 337G Skymaster 1973	---
14-01415	Cessna 337G Skymaster 1975	---
14-01442	Cessna 340 1972	---
14-01443	Cessna 340 1973	---
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14-01445	Cessna 340 1975	---
14-01454	Cessna 401 1967-1968	---
14-01455	Cessna 401A 1969	---
14-01456	Cessna 401B 1970-1972	---
14-01461	Cessna 402 1967-1968	---
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14-01463	Cessna 402B 1970-1972	---
14-01464	Cessna 402B 1973	---
14-01465	Cessna 402B 1974	---
14-01468	Cessna 402B Businessliner 1975	---
14-01481	Cessna 414 1970-72	---
14-01482	Cessna 414 1973	---
14-01483	Cessna 414 1974	---
14-01484	Cessna 414 1975	---
14-01494	Cessna 421 Golden Eagle, Exec Comm 1968	---
14-01495	Cessna 421A 1969	---
14-01496	Cessna 421B 1970-1971	---
14-01497	Cessna 421B 1974	---
14-01498	Cessna 421B 1975	---
14-01499	Cessna 421B Golden Eagle 1972	---
14-01500	Cessna 421B Golden Eagle 1973	---
14-00004	Cessna A150K Aerobat 1970	---
14-00005	Cessna A150L Aerobat 1971	---
14-00655	Cessna A150L Aerobat 1972	---
14-00656	Cessna A150L Aerobat 1973	---
14-00657	Cessna A150L Aerobat 1974	---
14-00658	Cessna A150M Aerobat 1975	---
14-03084	Cessna A185E Skywagon 1970-72	---
14-03086	Cessna A185F 1973 Skywagon	---
14-03087	Cessna A185F 1974 Skywagon	---
14-03088	Cessna A185F 1975 Skywagon	---
14-03085	Cessna A185F Skywagon	---
14-03118	Cessna FR172J Reims Rocket Flight Manual	---
14-01423	Cessna P337G 1974	---

OWNERS MANUALS – PIM

Part No.	Decription	Price
14-01424	Cessna P337G 1975	---
14-01425	Cessna P337G Skymaster 1973	---
14-03116	Cessna R172E Army T-41b Flight Handbook	---
17-00155	Cessna T210N 1979 Pim	---
14-01435	Cessna T337B Turbo Super Skymaster 1967	---
14-01436	Cessna T337C Turbo Super Skymaster 1968	---
14-01434	Cessna T337D Turbo Super Skymaster 1969	---
14-01437	Cessna T337E Turbo Super Skymaster 1970	---
14-01438	Cessna T337F 1971	---
14-01431	Cessna T337G Pressurized Skymaster 1974	---
17-00178	Cessna Turbo 182T Im Bus w/integrated Autopilot	---
14-01340	Cessna Turbo 207 Skywagon 1969	---
14-01341	Cessna Turbo 207 Skywagon 1970	---
14-01342	Cessna Turbo 207 Skywagon 1971-73	---
14-01343	Cessna Turbo 207 Skywagon 1974	---
14-01344	Cessna Turbo 207 Skywagon 1975	---
14-01389	Cessna Turbo 310P 1969	---
14-01390	Cessna Turbo 310Q 1970-72	---
14-01391	Cessna Turbo 310Q 1973	---
14-01392	Cessna Turbo 310Q 1974	---
14-01393	Cessna Turbo 310R 1975	---
17-00169	Diamond Star DA20-C1	---
14-02918	Grumman Amer AA-5/Traveler Owner Manual	---
14-02919	Mooney M20r Pilot Operating Handbook	---
14-01301	Piper J3C-65 Cub 1946	---
14-01220	Piper PA-14 Piper Family Cruiser	---
14-01282	Piper PA18 Supercub #7409140 & Up 1975	---
14-01283	Piper PA18-105 Series Owner's Handbook	---
14-01284	Piper PA18-125, PA18A-125	---
14-01281	Piper PA18-150 (S/n's 1809001 and Up)	---
14-01280	Piper PA18-150 (S/n's 7409140 Thru 8309025)	---
14-01285	Piper PA18-150 Super Cub	---
14-01286	Piper PA18-95, 135, PA18a-135 Supercub	---
14-01276	Piper PA18-95, PA18-135, PA18A-135	---
14-01279	Piper PA18-95, PA18-150 (1961-1974)	---
14-01277	Piper PA18-95, PA18-150, PA18a-150 (1955-1958)	---
14-01278	Piper PA18-95, PA18-150, PA18a-150 (1959)	---
14-01287	Piper PA18-95, PA18-150, PA18A-150	---
14-01288	Piper PA18-95,-150, PA18a-150 Supercub	---
14-01292	Piper PA20-115, PA20-125	---
14-01296	Piper PA20-135	---
14-01291	Piper PA20-135 Pacer PA22-135 Tri-pacer	---
14-01293	Piper PA22-108 1961-1964	---
14-01294	Piper PA22-108 1962	---
14-01295	Piper PA22-125, PA22-135	---
14-01290	Piper PA22-150, PA22-160	---
14-01222	Piper PA24-180, 250 Comanche 1958	---
14-01224	Piper PA24-180, 250 Comanche 1959-60	---
14-01223	Piper PA24-180, 250 Comanche 1961	---
14-01221	Piper PA24-180, 250 Comanche 1962-64	---
14-01225	Piper PA24-260 1965 Owner's Handbook	---
14-01226	Piper PA24-260 1970-1972 Turbo Owner's Handbook	---
14-01227	Piper PA24-260 B Comanche 1966-69	---
14-01228	Piper PA24-260 Comanche C 1969-72	---
14-01229	Piper PA24-400 1964-1965	---
14-01297	Piper PA25-150, 235 Pawnee Thru 1964	---
14-01298	Piper PA25-235, PA25-260c 1967-72	---
14-01299	Piper PA25-235, PA25-260d 1973 & Up	---
14-01300	Piper PA25-235b Pawnee 1965-66	---
14-01187	Piper PA28-140 Cherokee 1964-68	---
14-01188	Piper PA28-140 Cherokee Cruiser 1973	---
14-01189	Piper PA28-140 Cherokee Cruiser 1974-76 Pilot	---
14-01190	Piper PA28-140 Cherokee Cruiser 1977 Pilot's	---
14-01191	Piper PA28-140b 1968-1969 Owner's Handbook	---
14-01194	Piper PA28-140c 1970	---
14-01192	Piper PA28-140d Cherokee 1971	---
14-01193	Piper PA28-140e Cherokee 1972	---
14-01205	Piper PA28-150,160,180b Thru 1964	---
14-01204	Piper PA28-150,160,180c 1965-67	---
14-00901	Piper PA28-151 Cherokee Warrior 1974-76 Pilot's Manual	---
14-01163	Piper PA28-151 Cherokee Warrior 1977 Pilot's	---
14-01168	Piper PA28-161 Cadet Pilot's	---
14-01169	Piper PA28-161 Cadet Pilot's	---
14-01167	Piper PA28-161 Warrior II 1977-82 Pilot's	---
14-01164	Piper PA28-161 Warrior II 1983-94 Pilot's	---
14-01211	Piper PA28-180 Archer 1974-75 Pilot's	---
14-01206	Piper PA28-180 Cherokee 1973	---
14-01207	Piper PA28-180D 1967-69	---
14-01208	Piper PA28-180E Cherokee 1970	---
14-01209	Piper PA28-180F 1971	---
14-01210	Piper PA28-180G 1972	---
14-01175	Piper PA28-181 Archer II 1976 Pilot's	---
14-01176	Piper PA28-181 Archer II 1977-79 Pilot's	---
14-01177	Piper PA28-181 Archer II 1980-94 Pilot's	---
14-01178	Piper PA28-181 Archer III 1994-95 Pilot's	---
14-01180	Piper PA28-201t Turbo Dakota 1979-80 Pilot's	---
14-01195	Piper PA28-235 Cherokee 1963-65	---
14-01196	Piper PA28-235 Cherokee 1973	---
14-01198	Piper PA28-235 Pathfinder 1974-76 Pilot's	---
14-01197	Piper PA28-235 Pathfinder 1977 Pilot's Operating Handbook	---
14-01199	Piper PA28-235B Cherokee 1966-67	---
14-01200	Piper PA28-235C 1968-69	---
14-01201	Piper PA28-235D 1970	---
14-01202	Piper PA28-235E 1971	---
14-01203	Piper PA28-235F 1972	---
14-01185	Piper PA28-236 Dakota 1979-95 Pilot's	---
14-01213	Piper PA28R-180 1967-69	---
14-01212	Piper PA28R-180 1970	---
14-01214	Piper PA28R-180b Cherokee Arrow 1971	---
14-01215	Piper PA28R-200 Arrow 1969	---
14-01216	Piper PA28R-200 Arrow 1970	---
14-01217	Piper PA28R-200 Arrow II 1972-73 Pilot's	---
14-01186	Piper PA28R-200 Cherokee Arrow 1974-76 Pilot	---
14-01218	Piper PA28R-200b Arrow 1971	---
14-01172	Piper PA28R-201 Arrow 1988-1994 Pilot's	---
14-01170	Piper PA28R-201 Arrow 1995 & Up Pilot's	---
14-01171	Piper PA28R-201 Arrow III 1977-78 Pilot's	---
14-01174	Piper PA28R-201T Turbo Arrow III 1977-78 Pilot's Manual	---
14-01173	Piper PA28R-201T Turbo Arrow Pilot's	---
14-01182	Piper PA28RT-201 Arrow Iv 1979 Pilot's	---
14-01183	Piper PA28RT-201 Arrow IV 1980 & Up Pilot's	---
14-01181	Piper PA28RT-201T Turbo Arrow IV 1979 & Up Pilot Manual	---
17-00136	Piper PA-31-350 Chieftain (77-79)	---
14-01234	Piper PA32-260 1965-68	---
14-01235	Piper PA32-260 1972	---
14-01236	Piper PA32-260 1973	---
14-01240	Piper PA32-260 C 1970	---
14-01237	Piper PA32-260 Cherokee Six 260 1974-76 Pilot's Manual	---
14-01238	Piper PA32-260 Cherokee Six 260 1977-78 Pilot's Manual	---
14-01239	Piper PA32-260 Cherokee Six B 1968-69	---
14-01241	Piper PA32-260 D 1971	---
14-01244	Piper PA32-300 1966-68	---
14-01242	Piper PA32-300 Cherokee Six 1973	---
14-01243	Piper PA32-300 Cherokee Six 300 1974-76 Pilot's Manual	---
14-01245	Piper PA32-300 Cherokee Six 300 1977-79 Pilot's Manual	---
14-01246	Piper PA32-300B 1969	---
14-01247	Piper PA32-300C Cherokee Six 1970	---
14-01248	Piper PA32-300D Cherokee Six 1971	---
14-01249	Piper PA32-300E Cherokee Six 1972	---
14-01250	Piper PA32-301 Saratoga 1980 & Up Pilot's	---
14-01252	Piper PA32-301 Saratoga, Turbo 1980 & up Pilot's Information Manua	---
14-01264	Piper PA32-301ft Piper 6x Pilot's	---
14-01253	Piper PA32R-300 Cherokee Lance 1976 Pilot's	---
14-01254	Piper PA32R-300 Cherokee Lance 1977-78 Pilot's Manual	---
14-01258	Piper PA32R-301 Saratoga II 1995 & Up Pilot's	---
14-01255	Piper PA32R-301 Saratoga II HP Pilot's	---
14-01257	Piper PA32R-301 Saratoga II Hp1993-95 Pilot's	---
14-01256	Piper PA32R-301 Saratoga SP 1980-93 Pilot's	---
14-01260	Piper PA32R-301 Saratoga II HP1993-95 Pilot's	---
14-01259	Piper PA32R-301t Turbo Saratoga II TC Pilot's	---
14-01261	Piper PA32RT-300 Lance II 1978-79 Pilot's	---
14-01262	Piper PA32RT-300t Lance II 1978-79 Pilot's	---
14-02207	Piper PA34-200 Seneca 1974 Pilot's	---
14-02208	Piper PA34-200 Seneca Pilot's	---
14-02209	Piper PA34-200 Seneca Pilot's	---
14-02210	Piper PA34-200T Seneca II 1975-76 Pilot's	---
14-02211	Piper PA34-200T Seneca II 1977-81 Pilot's	---
14-02214	Piper PA34-220T Seneca III 1981 & Up Pilot's	---
14-02215	Piper PA34-220T Seneca III 1989-94 Pilot's	---
14-02216	Piper PA34-220T Seneca IV 1994-95 Pilot's	---
14-02212	Piper PA34-220T Seneca IV 1995 & up Pilot's	---
14-01230	Piper PA-36-285 Pawnee Brave Pilot's	---
14-01231	Piper PA-36-300 Pawnee Brave 300 Pilot's	---
14-01232	Piper PA-36-375 Brave 375 1979 & Up Pilot's	---
14-01219	Piper PA38-112 Tomahawk 1978 & Up Pilot's	---
17-00137	Piper PA-44-180 Piper Seminole (1979-1982)	---
17-00138	Piper PA-44T-180 Turbo Seminole (1980-up)	---
14-01265	Piper PA46-310P 1984-1986 Malibu Pilot's	---
14-01266	Piper PA46-310P Malibu 1986-1988 Pilot's	---
14-01269	Piper PA46-350P 1995 Malibu Mirage Pilot's	---
14-01268	Piper PA46-350P 1996-1997 Malibu Mirage Pilot's Info Manual	---
14-01267	Piper PA46-350P 1998-1999 Malibu Mirage Pilot's Info Manual	---
14-01271	Piper PA46-350P Malibu Mirage 1989-95 Pilot's	---
14-01270	Piper PA46-350P Malibu Mirage 1999-2005 Pilot's Info Manual	---
14-01274	Piper PA46-350P Malibu Mirage 2006 & On Pilot's Info Manual	---
14-01273	Piper PA46-500TP 2004-2005 Meridian Pilot's	---
14-01275	Piper PA46-500TP 2006 & Up Meridian Pilot's	---
14-01272	Piper PA46-500TP Meridian 2000-2003 Pilot's	---

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Part No.	Description	Price
14-02654	POH Cessna 185A-D 1961-1965	---
17-00141	POH Beech Duchess 76	---
14-03355	POH Cessna 152 1979	---
14-03359	POH Cessna 152 1980	---
14-03364	POH Cessna 152 1981	---
14-03370	POH Cessna 152 1982	---
14-03386	POH Cessna 152 1985	---
14-03431	POH Cessna 172RG 1985	---
14-03375	POH Cessna 172P 1983	---
14-03387	POH Cessna 172P 1985	---
14-03388	POH Cessna 172P 1986	---
14-03380	POH Cessna 172Q 1983	---
14-03381	POH Cessna 172P 1984	---
14-03382	POH Cessna 172Q 1984	---
14-03352	POH Cessna 172R NAVIII GFC700 Pilots Information Manual	---
14-03351	POH Cessna 172R (180HP)	---
14-03365	POH Cessna 172P 1981	---
17-00149	POH C172Nn 1978 Floatplane	---
14-02638	POH Cessna 172K (Army 7-41A)	---
14-02658	POH Cessna 180 1953	---
14-02659	POH Cessna 180 1954	---
14-02660	POH Cessna 180 1955	---
14-02661	POH Cessna 180 1956	---
14-02662	POH Cessna 180 1957	---
14-02663	POH Cessna 180 1958	---
14-02664	POH Cessna 180 1959	---
14-02665	POH Cessna 180 1960	---
14-02666	POH Cessna 180 1961	---
14-02667	POH Cessna 180 1962	---
14-02668	POH Cessna 180 1963	---
14-02669	POH Cessna 180 1964	---
14-02670	POH Cessna 180 1965	---
14-02671	POH Cessna 180 1966	---
14-02672	POH Cessna 180 1967	---
14-02673	POH Cessna 180 1968	---
14-02674	POH Cessna 180 1968	---
14-02675	POH Cessna 180 1970	---
14-02676	POH Cessna 180 1971-1972	---
14-02677	POH Cessna 180 1973	---
14-02678	POH Cessna 180 1974	---
14-02679	POH Cessna 180 1975	---
14-02680	POH Cessna 180 1963-1968 Supplement	---
14-02681	POH Cessna 180 1969-1972 Supplement	---
14-02682	POH Cessna 180J 1975 Supplement	---
14-03353	POH Cessna 182S Nav II	---
14-03383	POH Cessna 182R 1984	---
14-02640	POH Cessna 185 1961	---
14-02641	POH Cessna 185 1963	---
14-02642	POH Cessna 185 1964	---
14-02643	POH Cessna 185 1965	---
14-02644	POH Cessna 185 1966	---
14-02645	POH Cessna 185 1967	---
14-02646	POH Cessna 185 1968	---
14-02647	POH Cessna 185 1969	---
14-02648	POH Cessna 185 1970	---
14-02652	POH Cessna 185 1974	---
14-02655	POH Cessna 185 1966 Supplement	---
14-02656	POH Cessna 185 1967-1968 Supplement	---
14-02657	POH Cessna 185 1967-1972 Supplement	---
14-02635	POH Cessna 185A 1965	---
14-02649	POH Cessna A185E 1970-1972	---
14-02651	POH Cessna A185F 1973	---
14-02650	POH Cessna A185F 1973-1974	---
14-03360	Cessna A188B 1980 Flight Manual	---
14-03366	Cessna A188B 1981 Flight Manual	---
14-03371	Cessna A188B 1982 Flight Manual	---
14-03376	Cessna A188B 1983 Flight Manual	---
14-03361	Cessna T188C 1980 Flight Manual	---
14-03367	Cessna T188C 1981 Flight Manual	---
14-03372	Cessna T188C 1982 Flight Manual	---

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14-03377	Cessna T188C 1983 Flight Manual	---
14-03356	POH Cessna 207A 1979	---
14-03362	POH Cessna 207A 1980	---
14-03368	POH Cessna 207A 1981	---
14-03373	POH Cessna 207A 1982	---
14-03378	POH Cessna 207A 1983	---
14-03384	POH Cessna 207A 1984	---
14-03357	POH Cessna T207A 1979	---
14-03363	POH Cessna T207A 1980	---
14-03369	POH Cessna T207A 1981	---
14-03374	POH Cessna T207A 1982	---
14-01349	Cessna T207A 1983 Pilots Information Manual	---
14-03385	POH Cessna T207A 1984	---
14-03389	POH Cessna 208B (600 SHP)	---
14-03391	POH Cessna 208 (675 HP)	---
14-03390	POH Cessna 208B (675 SHP)	---
14-03354	POH Cessna 208B (867 SHP)	---
14-03389	POH Cessna 208B (600 SHP)	---
14-03391	POH Cessna 208 (675 HP)	---
14-03390	POH Cessna 208B (675 SHP)	---
14-03354	POH Cessna 208B (867 SHP)	---
14-03392	POH Cessna 310R 1979	---
14-03402	POH Cessna 310R 1980	---
14-03412	POH Cessna 310R 1981	---
14-03393	POH Cessna T310R 1979	---
14-03403	POH Cessna T310R 1980	---
14-03413	POH Cessna T310R 1981	---
14-03394	POH Cessna 337H 1979	---
14-03404	POH Cessna 337H 1980	---
14-03396	POH Cessna P337H 1979	---
14-03406	POH Cessna P337H 1980	---
14-03395	POH Cessna T337H 1979	---
14-03405	POH Cessna T337H 1980	---
14-03397	POH Cessna 340A 1979	---
14-03407	POH Cessna 340A 1980	---
14-03414	POH Cessna 340A 1981	---
14-03419	POH Cessna 340A 1982	---
14-03423	POH Cessna 340A 1984	---
14-03398	POH Cessna 402C 1979	---
14-03408	POH Cessna 402C 1980	---
14-03415	POH Cessna 402C 1981	---
14-03420	POH Cessna 402C 1982	---
14-03424	POH Cessna 402C 1984	---
14-03427	POH Cessna 402C 1985	---
14-03399	POH Cessna 404 1979	---
14-03409	POH Cessna 404 1980	---
14-03416	POH Cessna 404 1981	---
14-03400	POH Cessna 414A 1979	---
14-03410	POH Cessna 414A 1980	---
14-03417	POH Cessna 414A 1981	---
14-03421	POH Cessna 414A 1982	---
14-03425	POH Cessna 414A 1984	---
14-03428	POH Cessna 414A 1985	---
14-03401	POH Cessna 421C 1979	---
14-03411	POH Cessna 421C 1980	---
14-03418	POH Cessna 421C 1981	---
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14-03429	POH Cessna 421C 1985	---
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17-00175	Mooney M20j 1980 Pilot Operating Manual	---
17-00134	Piper PA-23-250 Aztec (1960-1961)	---
17-00135	Piper PA-23-250 Aztec E 1970-75 Pilots Information Manual (Part# 761-455)	---

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CLASSIC AIRCRAFT MANUALS

CESSNA MANUALS

Aircraft	Part No.	Price
120-140 Parts Catalog	13-00150	---
140A Parts Catalog	13-00155	---
150 Parts Cat., 1970-1977	13-00160	---
152 series Service Manual	13-01073	---
170 Parts Cat. 1948	13-00165	---
170A Parts Cat., 1949-1951	13-00170	---
170B Parts Cat.,1952-1956	13-00175	---
100 Series Service Manual, 1953-1962: (150, 172, 175, 180, 182, 185)	13-00180	---
172 series Parts Manual	13-00438	---
Note: This manual is not written specifically for the 120, 140 or 170 Cessna series. However, much of the information it contains is useful to these aircraft.		
100 Series Service Manual 1963-1968	13-00185	---
120-140 Owners Manual	13-00190	---
140A Owners Manual	13-00195	---
170 Owners Manual, 1948	13-00200	---
170A Owners Man.1949-51	13-00215	---
170B Owners Man. 1952-55	13-00220	---
170B Owners Manual, 1956	13-00225	---
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LUSCOMBE MANUALS

8A Owners Manual	13-00230	---
8E Owners Manual	13-00235	---
"8" Series Master Parts List, Illustrations	13-00240	---
Service Manual, early fabric wing	13-00245	---

TAYLORCRAFT MANUALS

BC12 Owners Manual	13-00250	---
BC12D Service Manual	13-00255	---

PIPER MANUALS

PA-16 Flight Manual	13-00260	---
PA-16 Parts list, (not illustrated)	13-00265	---
Univair PA-16 Paint Scheme Manual	05-21945	---
PA-17 Flight Manual	13-00270	---
PA-18 95/135 HP. Owners Manual	13-00275	---
PA-18 95/150 HP. Owners Manual	13-00280	---

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PA-18 Parts Manual	13-00290	---
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PA-20 & PA-22 135 HP. Owners Manual	13-00300	---
PA-20 Parts Catalog	13-00315	---
PA-22 108 HP. Flight Manual	13-00320	---
PA-22 150/160 HP Owners Manual	13-00325	---
PA-22 Parts Manual	13-00330	---
PA-22 108 HP. Owners Manual	13-00335	---
PA-25 Parts Manual	13-00340	---
Service Aids, Bulletins, Letters and Memos:		
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PA-11 - PA-22	13-00350	---
J-3 Owners Manual, C-65	13-00355	---
J-3 Paint Scheme	13-00360	---
J-3 Parts Manual	13-00365	---
J-3 Service Manual	13-00370	---
J-4 Service Manual	13-00375	---
J-4 (1939) Paint Scheme	13-00380	---
J-4 (1940) Paint Scheme	13-00385	---
J-4 (1941) Paint Scheme	13-00390	---
J-5 (1940) Paint Scheme	13-00395	---
J-5 (1941) Paint Scheme	13-00400	---
J-5 Parts Manual	13-00415	---
J-5 Service Manual	13-00420	---
PA-11 Parts Manual	13-00425	---
PA-11 Paint Scheme	13-00430	---
PA-12 Parts Manual	13-00435	---
PA-12 Paint Scheme	13-00440	---
PA-12 Operating Manual	13-00445	---
PA-12 Flight Manual	13-00450	---
PA-14 Paint Scheme	13-00455	---
PA-14 Flight Manual	13-00460	---
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Alon A2 Flight Manual	13-00475	---
Alon A2 Service Bulletins	13-00480	---
Alon A2/A2A Service Manual	13-00485	---
Alon A2 Owners Manual	13-00490	---
Ercoupe Service Bulletins/ Memos	13-00495	---
Ercoupe Flight Manual, 415-C	13-00500	---
Ercoupe Flight Manual, 415-D	13-00515	---
Ercoupe Flight Manual, 415-E/G/F1	13-00520	---
Fundamentals of Elem. Ercoupe Flt. Man.	13-00525	---
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Forney Parts Manual, F1A	13-00550	---
Forney Service Manual, F1/F1A	13-00560	---
Forney Instruction Manual, F1	13-00565	---
Mooney Owners Manual,1969 M-10	13-00570	---
Mooney Owners Manl, 1970 M-10	13-00575	---
Mooney M-10 Parts Catalog	13-00580	---
Mooney M-10 Service Manual	13-00585	---
Ercoupe Specs,ADS & STCs	13-00590	---

AERONCA, CHAMPION, SCOUT CITABRIA, DECATHLON MANUALS:

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Aeronca 7EC/FC Service Manual	13-00605	---
Aeronca 11AC Service Manual	13-00610	---
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Citabria Parts Manual, 1974-1979	13-00620	---
Citabria Service Manual	13-00625	---
Citabria Owners Manual, pre-1975	13-00630	---
Citabria Owners Manual, 1975-77	13-00635	---
Decathlon Parts Manual	13-00640	---
Decathlon Service Manual	13-00645	---
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Scout Parts Manual	13-00655	---
Scout Service Manual	13-00660	---
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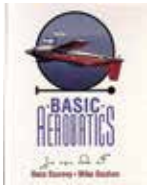

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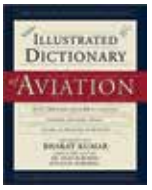

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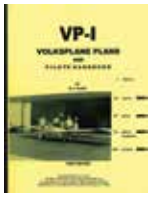

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EBook.....P/N 13-10245 ..... ---

FLYING ON FABRIC

As if being thirteen wasn't hard enough, Ann Wilson has just moved to Indiantown, FL where she knows no one. In an effort to fit in with a gang of rambunctious boys, Ann accepts a dare to sneak into the hangar of a local crop duster and steal something. Ann manages to nab a rusty screwdriver after sneaking into the hangar. She mistakenly thinks she has been successful until the cantankerous old crop duster, Jack, catches her in the act causing her to accidently damage his plane while making her escape.

Flying on Fabric is an engaging story about a young girl's determined quest to learn how to fly, but only if she can help a grouchy old crop duster find it in his heart to teach her. .....P/N 13-24284 ..... ---

THEY CALLED ME MR. BONANZA

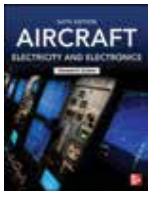
How it all started in 1944; the original Bonanza design team and their early efforts to find the ideal airplane for the postware market; how and why the V-tail was chosen; Experimental power plants, first flight wind tunnel testing; Staggerwing influence; birth of the Debonair; why the "straight" tail, airplane geneology chart. Specs on all models from 1946-1972.

P/N 13-04102 ..... ---

AIRCRAFT FUEL SYSTEMS

Aircraft Fuel Systems begins with basic fuel system requirements, then goes on to explain types of aviation fuel, fuel systems and fuel system components, fuel tank repair and testing, and fuel system servicing. It wraps up with a comprehensive look at the Boeing 767 fuel system and its various fuel related components. 62 Pages.

Book .....P/N 13-09848 ..... ---
E-Book .....P/N 13-05933 ..... ---



AIRCRAFT ELECTRICITY AND ELECTRONICS, 6TH EDITION

This updated text provides the latest information needed to perform return-to-service-quality maintenance and repair of aircraft electrical systems.

Aircraft Electricity & Electronics, Sixth Edition covers the requirements for the Federal Aviation Administration certification of Airframe and Powerplants Technicians.

P/N 13-12719 ..... ---

BV

AVIATION MAINTENANCE TECHNICIANS BOOK (DALE CRANE)

The Aviation Maintenance Technician: General is the first book of Dale Crane's AMT Series, textbooks created to set the pace for maintenance technician training and serve as an essential resource to pass the FAA Knowledge Exam. General covers the first section of the FAA's required curriculum, incorporating an introduction to aviation along with basic lessons on mathematics, physics, and electricity. As the student progresses, specific aviation concerns are addressed, including regulations, mechanic privileges, forms, aircraft hardware and tools.

A study guide is included within each textbook in the form of study question sections, with answer keys printed at the end of each chapter. These can be used for evaluation by an instructor or for self-testing. ASA's mechanic textbooks are all-inclusive—no separate, inconvenient workbook is needed by the student or instructor.

General textbook .....P/N 13-00574 ..... ---
Airframe vol. 1 .....P/N 13-00581 ..... ---
Airframe vol. 2 .....P/N 13-00582 ..... ---
Powerplant.....P/N 13-00583 ..... ---

AVIATION MAINTENANCE TECHNICIAN HANDBOOK

FAA did a terrific job with this new generation A&P General Textbook. It is fully up to date, easily readable, well illustrated, and in full color. It is also the "official" book from which all FAA knowledge test questions are derived. In reviewing this book, Aircraft Technical Book Company, together with five part 147 colleges, have identified numerous errors and omissions.....P/N 13-06257 ..... ---

ASA AIRPLANE FLYING HANDBOOK

The FAA's Airplane Flying Handbook (previously called Flight Training Handbook) has been required reading for all pilots for more than 30 years! This book introduces the basic pilot skills and knowledge essential for piloting airplanes. It benefits student pilots just beginning their aviation endeavors, as well as those pilots wishing to improve their flying proficiency and aeronautical knowledge, pilots preparing for additional certificates or ratings, and flight instructors engaged in the instruction of both students and licensed pilots

Book .....P/N 13-10219 ..... ---

ASA AIRCRAFT WEIGHT AND BALANCE HANDBOOK

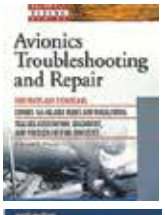
An overweight aircraft, or one whose center of gravity is outside the allowable limits, is inefficient and dangerous to fly. The responsibility for proper weight and balance control begins with the engineers and designers and extends to the pilot who operates and the Aviation Maintenance Technician who maintains the aircraft.This book explains in detail the process to determine the weight and balance of any aircraft.

Book .....P/N 13-01059 ..... ---
E-Book.....P/N 13-05934 ..... ---

AIRCRAFT WIRING GUIDE

This book is for experimental aircraft builders who want to know how to plan and wire their aircraft. First-time builders will learn how to start thinking about and planning for the electrical system. Advanced builders can keep abreast of the latest technologies and products. This book is designed to focus on the practical information you need to make important decisions about the architecture of your electrical system, what parts to buy, and how to wire it all together.

P/N 13-18050 ..... ---



AVIONICS TROUBLESHOOTING AND REPAIR - MAHER

If you have not seen this book, it is an absolute must read for every technician. Forty years of hands on experience by the author Ed Maher. 400 pages of troubleshooting! Cover FAA rules and regulations

P/N 13-01643 ..... ---

ASA THE DRONERS MANUAL - SECOND EDITION

The incredible advancements in the field of uncrewed aircraft over the last decade have made it possible for almost anyone to build and operate their own drone, creating exciting business opportunities in numerous fields ranging from video production to agriculture.

Softcover .....P/N 13-22732 ..... ---
E-Book EB.....P/N 13-22732 ..... ---
E-Book PD.....P/N 13-22733 ..... ---

THE ELECTRICAL BLACK BOOK

The ENGINEERS BLACK BOOK is a Technical Engineering Resource Book consolidating the most commonly used Engineering information into a easy-to-read and convenient user friendly format. Whether you are a Designer, Engineer, the Engineers Black Book is an invaluable tool for Apprentices, Trainees, Tradesmen, Machinists, Machine Shops, Tool Rooms, Technical Colleges, Fabricators, Sheet Metal Workers, even simply as a gift to a colleague.

P/N 13-15982 ..... ---

AVIATION eBOOKS FROM AIRCRAFT SPRUCE

eBooks are full size, full color, page-by-page reproductions of your book in Adobe Reader .pdf format which you can view on your desktop, laptop, or tablet computer. eBooks are also fully searchable.

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TONY BINGELIS BOOKS

THE SPORTPLANE BUILDER (TONY BINGELIS)

An introduction to homebuilts along with information on construction practices, fiberglass techniques, canopies, windshields, instrumentation, fuel systems, control systems, landing gear components, electrical systems, covering and painting and more. 320 pgs, completely illustrated.

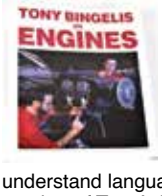
P/N 13-13200 ..... ---

SPORTPLANE CONSTRUCTION TECHNIQUES (TONY BINGELIS)

3rd in a series of outstanding books from the dean of homebuilders. Includes sections on getting ready to build, construction practices, fiberglass components, control systems, aircraft interiors, canopies and windshields, landing gears, instrumentation, electrical systems and finishing. 368 pages, fully illustrated ....P/N 13-13300 .....

FIREWALL FORWARD (TONY BINGELIS)

The complete guide to engine selection, firewall preparation, engine mounts, exhaust systems, hoses and lines, cowlings, fuel systems, ignition and electrical systems, instrumentation, propellers spinners and much more. Highly recommended by Rutan Aircraft Factory. 303 pages, completely illustrated.....P/N 13-13400 ..... ---



BINGELIS ON ENGINES (TONY BINGELIS)

A treasury of practical engine information for aircraft builders, owners, restorers and mechanics. Things you need to know about engine selection, engine installation, firewall preparation, baffles, cooling, fuel systems, ignition and electrical, exhaust systems, props and spinners all are thoroughly covered. Presented in clear, easy to understand language and illustrated with photos and drawings, this is another of Tony's incomparable collection of articles from EAA's Sport Aviation magazine that addresses powerplant issues facing today's sport plane builder and pilot/ All the right answers at your finger tips .

P/N 13-13450 ..... ---

SHOT DOWN

The true story of pilot Howard Snyder and the crew of the B-17 Susan Ruth is about the dramatic experiences of each member of a B-17 crew after their plane was knocked out of the sky by two German Focke-Wulf 190 fighters over the French Belgian border. The print edition of the book has more than 200 time period photographs of the people who were involved and the places where their stories took place.

P/N 13-18400 ..... ---

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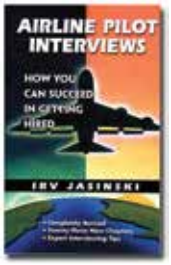


AIRLINE PILOT INTERVIEWS

Airline Pilot Interviews, How You Can Succeed In Getting Hired by Irv Jasinski. This completely revised, updated, and greatly expanded edition has over 300 pages, 20 illustrations, sample resumes (military and civilian), and letters (cover, update, and recommendation). With 46 chapters and an extensive index, the reader will receive hundreds of valuable tips and insights into presenting themselves in interviews with major, national, and regional airlines as well as corporations P/N 14-00709 ..... ---

COMPOSITE & FIBERGLASS MOLDING TECHNIQUES

The colorfully illustrated and bound 26-page booklet contains a list of required materials for creating composite tooling and parts as well as a glossary of associated terms used in the composite molding process. The booklet explains the basics of positive plug construction, including materials usage, the determination of mold break lines and the set up of the positive plug for mold casting. Materials usage for positive plug construction, as well as mold (tooling) construction and final part lay-up materials and some basic finishing techniques provides the basics for completing a set of tooling for composite parts.

P/N 13-11800 ..... ---

A COMPREHENSIVE GUIDE TO COMPOSITES

This book provides an insider's viewpoint on the tips and techniques used by the pros to fabricate advanced composite parts. The culmination of more than 30 years of industry experience, it imparts valuable insight on safety, shop and equipment needs, engineering, materials, lay-up, fabrication and quality control. The author captures lessons, games, safety, tests and projects in place, explaining them in the most pertinent context possible. Students and instructors will benefit from his coverage of lean manufacturing, STEM, and advanced composites, all in one book.

Hardcover Book.....P/N 13-17605 ..... ---
E-Bundle.....P/N 13-19077 ..... ---
eBook-PD .....P/N 13-22591 ..... ---
eBook-EB .....P/N 13-22590 ..... ---

AIRCRAFT WELDING (94 PAGES)

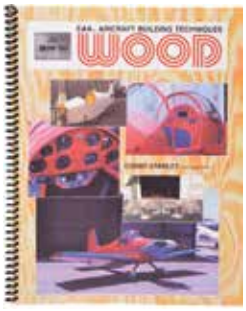
Fundamental welding techniques for the building and repair of aircraft, from the pages of Sport Aviation and other sources. 94 pages filled with aircraft welding tips and information. Written for home workshop beginners, but also contains facts & procedures helpful to factory welding departments. Tells you which type of equipment is best for you. Not like any other weld textbook.

P/N 13-40630 ..... ---

EAA SHEET METAL BUILDING BASICS

EAA's continuing "how-to" series of educational materials for building your own aircraft now includes, Sheet Metal Building Basics, written by longtime builder and SportAir instructor Jack Dueck. Jack is a sheet metal construction expert and serves on the EAA Homebuilt Council, the EAA Canadian Council, and is an EAA Technical Counselor for his home Chapter 1410 in High River, Alberta, Canada.

P/N 13-11625 ..... ---



WOOD AIRCRAFT BUILDING TECHNIQUES

Excellent resource book on "How To" build or repair wood aircraft. (120 pages). This book from EAA is a compilation of articles from a variety of people and sources (mostly EAA publications) that covers a wide variety of topics concerning wooden aircraft construction. This is a very good, broad overview of many important topics and techniques and will be an excellent and useful addition to your airplane construction library.

P/N 13-40635 ..... ---

ENGINEERS BLACK BOOK

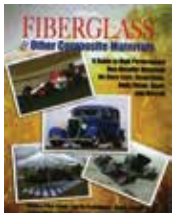
• This pocket book is a great resource for anyone working in a shop • It's designed for metal workers and machinists • Coated with in a Glare-Free • Free drill sharpening gauge with each book.

P/N 13-06586 ..... ---

FASTENER BLACK BOOK

• This pocket book is a great resource for anyone using standard fasteners on a routine basis • It's designed for technicians, apprentices, trainees etc. • Coated with in a Glare-Free laminate that resists tearing • Free thread pitch identification gage with each book

P/N 13-06587 ..... ---



FIBERGLASS & OTHER COMPOSITE MATERIALS

A revised and updated guide to fiber reinforced plastic materials, including fiberglass, Kevlar, and carbon fiber. It also includes sections on mold making, plugs, materials, structures, gel coats, advanced building techniques, tools, and equipment. Author: Forbes D. Aird Pages: 192

P/N 13-06721 ..... ---

HOW TO PAINT YOUR OWN AIRPLANE

(Ron Alexander) - This book discusses all aspects of spray painting including choosing the right equipment, how to set up a paint booth, preparation of surfaces, painting techniques, safety issues, etc. This is an EAA "How To" book written by Ron Alexander.

Over 80 pages. .....P/N 13-03274 ..... ---

THE NEXT FIVE MINUTES BY DICK RUTAN BOOK

This limited edition book comes numbered and autographed by Dick Rutan.

On a cold December morning in 1986, Dick Rutan and co-pilot Jeana Yeager, against all odds, made aviation history when they successfully completed the first ever non-stop and non-refueled flight around the world in a homebuilt airplane! They had traversed 26,358 statute miles, returning with only 18.3 of the 1200 gallons of gas they had taken off with nine days prior. Following their arduous takeoff, Dick's younger brother, Burt, watched the plane of his design disappear over the vast Pacific, believing it improbable he would ever see his brother alive again. Throughout his life, Dick sought adventure and welcomed challenge, frequently finding himself at "danger's door" wondering what THE NEXT FIVE MINUTES of his life would be like. In his words, "It's great to be an American…to live in a free country where, if you can dream it, you can do it. The only way to fail is if you quit."…….P/N 13-22399 ..... ---

PRACTICAL LIGHTPLANE DESIGN AND CONSTRUCTION

This book provides light plane information for the amateur in a simple and usable form. It should save the amateur builder and designer many hours. Author: W.J. Fike, 60 pages.

P/N 13-21966 ..... ---

MAINTENANCE HANDBOOK FOR VAN'S RV AIRCRAFT

This book is a culmination of over 45 years of experience working on and maintaining all types of Van's RV aircraft. It should be the ultimate reference guide for you or your mechanic to inspect and maintain the aircraft throughout its life. Using the checklist and accompanying pictures will be almost as good as having the author working over your shoulder. This book contains 151 pages and 443 pictures. It is spiral bound to enhance use in the shop. The purchaser will be able to see the issue and how to repair it. It is essential for Van's RV and Lycoming piston engine owners who do their own maintenance. This Maintenance Handbook is recommended over Vic's Are Your Nuts tight inspection Guide if you plan to maintain your Amateur-Built aircraft.....P/N 13-24461 ..... ---

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SHEET METAL HANDBOOK

Detailed information on how to form and shape sheet metal for competition, custom or restoration use. Chapters include hammer forming tools, terms and equipment, riveting techniques, layout, design and pattern-making. A great companion to the Metal Fabricator's Handbook.
Author: Ron and Sue Fournier
Pages: 144 .....P/N 13-06720 ..... ---

AIRFOIL SELECTION

The articles are reproduced here as they appeared in the magazine with the exception of minor corrections and reformatting. The purpose of the book is to provide the reader with a basic understanding of airfoil geometry and how that geometry affects the aerodynamics of an airfoil and the characteristics of an airplane using that airfoil.....P/N 13-18700 ..... ---

GA AIRFOILS

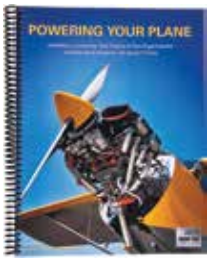
(Harry Riblett) – This book is a critical study of the NACA airfoil design work addressing errors and omissions of the NACA work and correcting NACA airfoils where needed. This is a comprehensive catalog of airfoils designed for general aviation use. Also included are sections on general wing design, including planform, wing tips, root stakes, aircraft performance and stability, and more. 136 pages.
P/N 13-18725 ..... ---

KNOW THE AIRCRAFTS EMERGENCY CRITICAL AIRSPEEDS BOOK + PLACARD

This booklet was written by Richard Jimenez to educate pilots in knowing the critical speeds of an aircraft that can be used in emergency conditions.
When low on fuel, what speed should you fly the aircraft maximum distance per gallon of fuel? When circling an airport waiting for the ground fog to clear so you can land, what speed should you fly the aircraft for maximum time per gallon of fuel? When taking off, what speed should you fly the aircraft to get the maximum angle of climb to clear high obstacles? This book gives the answers to those questions. Also other critical speeds are given plus how to fly to use less fuel. Each order includes a placard to use to note your aircraft's critical speeds.
P/N 13-22312 ..... ---

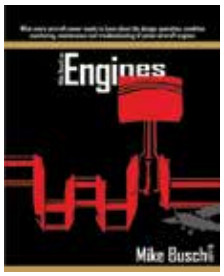
SKY POLARIS - A RECORD-BREAKING GLOBAL FLIGHT

Miguel Angel Gordillo is the first man who circumnavigated the earth over both poles in a homebuilt aircraft under 1750 kg. In 2016 he covered 41,000 nm in two legs in the shape of an eight at extreme flight conditions over desert, jungle, mountains, ocean and ice. This earned him the world record of the Federation Aeronautique Internationale (FAI).
The scientific, aeronautical and personal challenges, experience and encounters on his flight over both poles provided the extraordinary material for this book to document the uniqueness of his world record in words and pictures .....P/N 13-24482 ..... ---



POWERING YOUR PLANE

"Powering Your Plane" by Dave Prizio is a book that will help readers correctly install a Lycoming-type engine. It covers each step of the engine installation process, including selecting an engine for your project, firewall construction, plumbing, electrical, preparing for your first engine start, and more. By focusing just on Lycoming and similar engines, such as those by Superior and Continental ECi, the author is able to go into great detail about the types of engine installations that most builders use.
P/N 13-20977 ..... ---

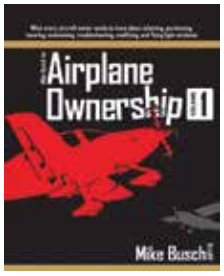


MIKE BUSCH ON ENGINES

Mike Busch on Engines: What every aircraft owner needs to know about the design, operation, condition monitoring, maintenance and troubleshooting of piston aircraft engines.
"The risk of engine failure is greatest when your engine is young, NOT when it's old. You should worry more about pediatrics than geriatrics." —Mike Busch A&P/IA
Mike Busch on Engines expands the iconoclastic philosophy of his groundbreaking first book Manifesto to the design, operation, condition monitoring, maintenance and troubleshooting of piston aircraft engines.
If you want your engine to live long and prosper, you need this book.
Specifications: • Paperback: 508 pages • Product Dimensions: 7.5 x 1.2 x 9.2 inches .....P/N 13-21514 ..... ---

MIKE BUSCH MANIFESTO FOR GENERAL AVIATION MAINTENANCE

"Manifesto" is the much-anticipated first book from renowned aviation columnist and speaker Mike Busch. Written in typical no-nonsense style, it lays out the basis of Mike's "minimalist" maintenance philosophy for owner-flown general aviation aircraft. An owner who follows the book's guidance can save a small fortune on maintenance costs and end up with a safer, more reliable aircraft.
Owners are advised to perform the absolute least amount of maintenance required to make their aircraft safe, reliable and legal… and nothing more. The book explains in detail why engine and propeller TBOs and most other manufacturer-prescribed maintenance intervals should be disregarded. And "Manifesto" explains exactly how to do it.
P/N 13-21515 ..... ---



MIKE BUSCH AIRPLANE OWNERSHIP - VOLUME 1

Mike Busch on Airplane Ownership is the much-awaited sequel to his previous books Manifesto and Engines. In this two-volume set, Busch distills his wisdom from his more than 50 years as an aircraft owner. He brings his refreshingly commonsense and often outside-the-box approach to every aspect of owning and operating a general aviation aircraft.
Volume 1 covers selecting, purchasing, insuring, and maintaining an aircraft. Busch emphasizes that it is the aircraft owner—not his mechanics—who bears the regulatory responsibility for airworthiness. He discusses how to choose the right mechanic or shop and how to manage the maintenance they perform. Busch dissects the much-dreaded annual inspection, and how owners can keep it from spiraling out of control. He offers guidance about the all-important post-maintenance test flight, and how to deal with an owner's worst nightmare: a mechanical breakdown far from home.
P/N 13-22238 ..... ---

MIKE BUSCH ON AIRPLANE OWNERSHIP - VOLUME 2

Mike Busch on Airplane Ownership is the much-awaited sequel to his previous books Manifesto and Engines. In this two-volume set, Busch distills his wisdom from his more than 50 years as an aircraft owner. He brings his refreshingly commonsense and often outside-the-box approach to every aspect of owning and operating a general aviation aircraft.
Volume 2 covers the rules and regulations that every aircraft owner needs to know but is often not taught. It discusses owner-performed maintenance, troubleshooting techniques, aircraft modifications, twins, and resolving owner/mechanic disputes. It takes the reader on a guided tour through the various aircraft systems, discussing the operation, care and feeding of each one. It offers guidance on how to fly safely and efficiently, including leaning techniques, air-speed and altitude selection, and more. The volume concludes with Busch's thoughts about the future of owner-flown general aviation and where we're headed.
P/N 13-23280 ..... ---

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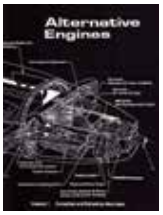


ALTERNATIVE ENGINES

This is a compilation of the "Contact" magazine articles written by Mick Myal on conversion of auto engines. Also contains important information and solutions for cooling, ignition redundancy and the selection of components. Well written with many helpful ideas. Filled with specifications, pictures and diagrams. An essential book to anyone converting an auto engine .....P/N 13-00398 ..... ---

CONVERTING AUTO ENGINES FOR EXPERIMENTAL AIRCRAFT

The single most expensive part on an aircraft is a certified aircraft engine. This book helps eliminate this high cost of building your own aircraft. It's also the most out of date part. FAA and legal restrictions slow development in this field to a snails pace, while automotive technology has raced ahead. Auto engine conversions are becoming more and more popular, and this book explains what it takes to do it yourself.

P/N 13-21965 ..... ---

ASA AVIATION INSTRUCTOR'S HANDBOOK

Written by the FAA. Includes principles of teaching and learning, with extensive details on how to pass along aeronautical knowledge and skills. Experienced aviation instructors will also find the information useful for improving their effectiveness in training activities. 152 pages, glossary, index.

P/N 13-19380 ..... ---

SHARPEAERO FLIGHT TRAINING BOOK FOR CANADIAN PILOTS

Say hello to Flight Training, the successor of our previously-titled book, Flight Instruction Handbook. This book is now intended for both student pilots to prepare for each flight exercise, and for flight instructors to use as reference materials for their lesson plans. Its significant improvements offer the best flight training content for in-flight preparation that the Canadian market has to offer.

P/N 13-24359 ..... ---

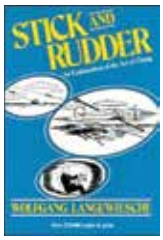
SHARPEAERO NIGHT RATING BOOK FOR CANADIAN PILOTS

Say hello to Night Rating, the successor of our previously-titled book, Night Rating Handbook. This book features minor updates from the previous edition, and an updated design. It provides Canadian pilots-in-training and flight instructors with an all-in-one, comprehensive guide that outlines the practical aspects of flying at night in preparation for obtaining a night rating. .....P/N 13-24360 ..... ---

INTRODUCTION TO FLY-BY-WIRE FLIGHT CONTROL SYSTEMS

Introduction to Fly-by-Wire Flight Control Systems: The professional pilot's guide to understanding modern aircraft controls is the #1 guide to understanding the "why and how" of fly-by-wire flight control systems. This book is an approachable and easily understandable must-read for aviation professionals.E-Book

Paperback.....P/N 13-24005 ..... ---
E-Book .....P/N 13-24006 ..... ---



STICK AND RUDDER

Because the basics are largely unchanging, the book therefore is applicable to large airplanes and small, old airplanes and new, and is of interest not only to the learner but also to the accomplished pilot and to the instructor himself. When Stick and Rudder first came out, some of its contents were considered highly controversial. In recent years its formulations have become widely accepted. Pilots and flight instructors have found that the book works. Today several excellent manuals offer the pilot accurate and valuable technical information. But Stick and Rudder remains the leading think-book on the art of flying. One thorough reading of it is the equivalent of many hours of practice .....P/N 13-26400 ..... ---

FLYING & GLIDER MANUALS

Edited reprints of the original "Building and Flying Manuals" published from 1929 to 1933 by Modern Mechanix and Inventions. 70 pages each.

1929 FLYING & GLIDING MANUAL – Contains information on flight lessons plus building the Heath Super Parasol, Russell-Henderson Light Monoplane and an easy to build glider.....P/N 13-40600 ..... ---

1930 FLYING & GLIDING MANUAL – Plans for building a Heath Baby Bullet, set of light plane metal floats, building the Northrop Glider, Lincoln Biplane, Alco Sportplane, plus other tips on building and welding.

P/N 13-40605 ..... ---

1931 FLYING & GLIDING MANUAL – Building the "Longster," Georgias Special, a glider and secondary glider, Driggs Dart, the Church Midwing, the Heath Seaplane Parasol and its pontoons, the Northrop Glider and other gliders.....P/N 13-40610 ..... ---

1932 FLYING AND GLIDER MANUAL - Building the Pietenpol Aircamper with Ford motor conversion, Powell "P-H" Racer, the Heath Super Soar Glider, Penguin practice plane, Ramsey "flying bathtub" and other kits. Also, build your own hangar.....P/N 13-40615 ..... ---

1933 FLYING & GLIDING MANUAL – Building the Gere Sport Biplane, Pietenpol Floats, Pietenpol Sky Scout, and Henderson Longster, Also Long Harlequin motor plans, a hydroglider and information on building propellers.....P/N 13-40620 ..... ---

ASA HELICOPTER FLYING HANDBOOK

This is the FAA's primary resource for helicopter operations knowledge; it is essential reading for applicants preparing for knowledge exams with a helicopter class rating. This is the FAA's primary resource for helicopter operations knowledge; it is essential reading for applicants preparing for the exams for private, commercial, or flight instructor pilot certificates with a helicopter class rating.

Book .....P/N 13-00735 .....---
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ASA HELICOPTER MANUEVERS MANUAL

This maneuvers manual helps pilots visualize concepts learned in flight training and incorporate the Practical Test Standards into every maneuver. The full-color illustrations and textual explanations work in conjunction with an instructor's lessons, and facilitate effective preflight and postflight briefings. Applicable to all helicopter models, the book also features tips for the popular Robinson R22. This book is an essential tool for any flight bag! ....P/N 13-18467 ..... ---

AERODYNAMICS FOR NAVAL AVIATORS

This textbook presents the elements of applied aerodynamics and aeronautical engineering which relate directly to flight training and general flight operations. Originally published by the U.S. Navy. 432 pages.

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HELICOPTER DESIGN AND DATA MANUAL E-BOOK

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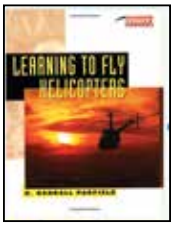

LEARNING TO FLY HELICOPTERS (R. RANDALL PADFIELD)

"Written in a conversational style that's both fun and easy to read... Even if you're a confirmed fixed-wing pilot and show no rotor-wing tendencies, you'll enjoy this book and gain an insight into your brother pilots' obsessions." AG-Pilot International. 354 pgs, 100 illust., paperback.....P/N 13-29931 ..... ---

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THE COMPLETE GUIDE TO PIPER AIRCRAFT

Are you ready to buy a new or pre-owned Piper? This updated second edition includes the original in-depth info about Piper models along with purchasing advice on ADs, inspections, the importance of logbooks, and how to choose the right Piper aircraft for your wants and needs. This informative narrative includes information on models from the Piper Cub, to the various Piper Indians such as the Cherokee, the Cheyenne, the Comanche, and the agricultural Pawnee.....P/N 13-06181 ..... ---

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The Legendary Douglas DC-3 flies on in the hearts of aviators around the globe, but few today know much about the man with the vision that brought her to the skies. From the author of Together We Fly: Voices From The DC-3 comes an exploration into the life of Donald Wills Douglas, founder of the Douglas Aircraft Company, a genius innovator and engineer.

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ASA AIRCRAFT INSPECTION, REPAIR & ALTERATIONS

The "bible" for AMTs, aircraft owners, and home-builders, this FAA Advisory Circular outlines the standards for acceptable methods, techniques, and practices for the inspection, repair and alteration of non-pressurized areas of civil aircraft with a gross weight of 12,500 lbs or less. Includes both Part 1B and Part 2BQ.....P/N 13-06050 ..... ---

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INSTRUMENT PILOT FLIGHT MANEUVERS

Provides a thorough explanation of each maneuver and task called for in the FAA's Instrument Practical Test Standards (PTS). Both the 1998 and oral PTS are included so that the manual reflects the current standards you will encounter during the checkride. With GPS and RNAV navigation much more commonplace, these inclusions have also been made by the FAA. In addition to the technical changes, the publisher has also improved the graphics to better illustrate each maneuver, while retaining those maneuvers that the FAA had deleted from its Instrument Flying Handbook for greater depth. A cross reference of applicable FAA publications to each maneuver and task helps with further research. The spiral-bound manual is easy to use, clipping onto a standard, approach plate-size kneeboard for flight.....P/N 13-02733 ..... ---

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The Flight Instructor's Manual is an invaluable reference for flight instructor applicants and serves as an indispensable guide for both new and experienced instructors (CFIs). Organized so each chapter can be used as a stand-alone reference for a particular phase of instruction, allowing it to serve as a "how to teach" guide on topics including: fundamentals of flight instruction (FOI), presolo instruction, first solo to the private certificate, advanced VFR instruction, introduction to aerobatic instruction, and instrument instruction. The book also features a comprehensive spin syllabus, material on multi-engine airplanes, instructing international students, teaching ground school, and setting up tests.

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THE INSTRUMENT FLIGHT MANUAL

The Instrument Flight Manual contains everything students need to know to obtain an FAA instrument rating and serves as a great reference source for the instrument pilot needing a refresher. This presents the basics of instrument flying in a manner easy to grasp in its straightforward and conversational writing style, with illustrations that aid understanding. 296 pages, paperback.

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EAA FLIGHT TEST MANUAL VERSION 2 AND TEST CARDS

The EAA Flight Test Manual (Version 2) offers a comprehensive, step-by-step approach to testing your homebuilt aircraft. This manual is designed to ensure that your aircraft is thoroughly tested and understood by guiding you through each phase of the flight testing process.

What sets this program apart is the use of test cards, which break down each flight into manageable, point-by-point tasks, simplifying data collection and ensuring thorough coverage. Builders using this manual will gain a complete understanding of their aircraft's performance, handling characteristics, and limitations, as well as the data needed to create a detailed operating handbook. For new or significantly altered designs, the manual will help you create a tailored flight-test plan. We also recommend consulting with an experienced test pilot when needed.. ....P/N 13-25791 ..... ---

MOUNTAIN CANYON AND BACKCOUNTRY FLYING

Recreational pilots to mountain flying instructors will find this book useful, and college and university professors can use the text to supplement their classroom instruction. Fundamental concepts include preparing for and conducting mountain and canyon flights, airport operations, situational awareness, aircraft performance, risk management, and emergency operations. Analysis of accident scenarios, accounts from the authors' own experiences, and contributions from seasoned backcountry pilots and instructors expand on material detailed in the text. Each chapter includes exercises to help the reader understand and apply the information to their own flying, and beautiful color illustrations will inspire pilots to seek out these awe-inspiring destinations.

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SUNSET TO SUNRISE

Sunset to Sunrise by David Robson Night flight is one of the most pleasant forms of flight. Every city looks good at night. The sparkling lights, stars, moon and reflections combine to produce a spectacle many only dream about. However, night flight requires different technique, perspective, and considerations than day operations. The aircraft must be flown with reference to the flight instruments, and the outside visual references take on new importance while at the same time providing different illusions. Night flight can be a test for even the most experienced pilot.

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Robert DeLaurentis had an impossibly big dream: to circumnavigate the globe in a single-engine piston plane. Meant to be the ultimate test of his flying skills as a pilot,the journey would take him to the ends of the earth and over some of the most inhospitable terrain on the planet. DeLaurentis shares the insights he gained for overcoming paralyzing fear, defeating obstacles, and confronting any situation with grace and ease. .....P/N 13-19678 ..... ---

AVIATION MAINTENANCE TECHNICAL WORKBOOK

This Workbook was developed by Tom Wild and Mike Leasure from Purdue University as a further study tool and an A&P instructor's classroom aid for a General curiculla, especially when combined with the FAA 8083-30 revision ATB textbook. Each chapter in the workbook matches those in the textbook with each including 3 sections: Chapter Review Questions, Knowledge Application (practical) Questions, Final Chapter Exam

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ASA AVIATION MECHANIC HANDBOOK

A core reference manual for mechanics, aircraft owners, and pilots, this book compiles specs from stacks of reference books and government publications into a handy, toolbox-size guide. Includes all the information critical to maintaining an aircraft.

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OWNER ASSISTED AIRCRAFT MAINTENANCE

Have you ever wanted to participate in your aircraft's maintenance, but were afraid to try? Are the rising costs of flying keeping you on the ground? This illustrated manual, by Dan MacDonald, is written for the mechanically inclined Part 91 pilot owner/operators that are ready to learn more about their airplanes. It describes common maintenance activities that are approved for pilots to perform by the FAA, along with a number of other projects that you might wish to complete under the supervision of a certified mechanic. The book focuses on common "legacy" single engine aluminum aircraft built from the 1940s through today. Whether changing your oil, installing new tires, or checking engine compression this 160 pages of text and photos provides procedures and tips gathered over the past 27 years. Soft cover; includes over 200 color photographs.....P/N 13-10244 ..... ---

SAY AGAIN, PLEASE: GUIDE TO RADIO COMMUNICATIONS

Talking on an aviation radio and understanding air traffic control (ATC) instructions can be one of the most intimidating aspects of flight training. In Say Again, Please Bob Gardner explains how the ATC system works and teaches pilots what to say, what to expect to hear, and how to interpret and react to clearances and instructions. His conversational-yet-concise writing style will help increase your comfort level when using an aircraft radio.

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FLIGHT INSTRUCTORS SURVIVAL GUIDE

After passing the FAA's Fundamentals of Instructing (FOI) knowledge test required of all instructors, the true challenge begins—applying that knowledge in the real world of teaching flight. Follow along as Arlynn McMahon lifts the FOI principles from the classroom and brings them into the cockpit. Her forty-four stories demonstrate the FOI principles in flight and offer practical strategies for dealing with both common and unexpected situations—all with wisdom, grace, and humor.

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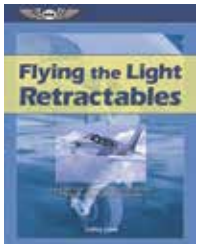

ASA FLYING LIGHT RETRACTABLES

LeRoy Cook's guided tour through the most popular high-performance single-engine airplanes. Follow author LeRoy Cook on a tour of the retractable-gear airplanes you've always wanted to learn more about. Flying the Light Retractables is an informative journey through the development history of each plane with plentiful insight into design considerations, evolutionary changes, advantages and disadvantages of the different models, and background on maintenance issues. Pilots or potential owners will really get a sense of the subtle or not-so-subtle differences; this is like going flying with the author and having the advantage of his eye for detail and sense of observation.

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MY SKY - THE FLIGHTS AND TIMES OF BILL COX

Longtime pilot and writer Bill Cox entitled "My Sky: The Flights & Times of Bill Cox." Detail his lifelong travels as a pilot, in the beautifully scripted way in which only Bill can write.

Aviation writer/photographer and pilot Bill Cox has been in love with airplanes since the age of 13, though he refuses to admit how long ago that was. He survived his first airplane ride as a Civil Air Patrol Cadet in a Piper J-3 Cub on skis out of Merrill Field in Anchorage, Alaska, sometime in the middle of the last century. "We did a variety of search-and-rescue missions," Bill commented. "All search and no rescue." Starting in 1977, Bill began delivering new and used aircraft overseas and has made 220 delivery flights across the world. Notably, and not chronicled in this book, Bill delivered Brad Pitt and Angelina Jolie's former Cessna Grand Caravan from Long Beach, California, to its new owner in Seoul, Korea. In a half-century of flying, he's had 13 engine failures (two at a time, see Chapter 11), but has only lost one airplane, a Piper Lance in the Ogaden Desert of Ethiopia in 1998 (also detailed in Chapter 11). Bill has logged about 15,000 hours in 60 years of flying.....P/N 13-23277 ..... ---

IFR COMMUNICATIONS KIT

This aviation communication resource is the companion to the VFR Communications Kit. It was designed to help you improve your IFR communications with less stress by making a 'script' for every IFR flight. Script assembly instructions, template descriptions, an ample supply of each of the 32 communication templates. After a few flights you will sound like a seasoned pilot!

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HUMAN FACTORS - ENHANCING PILOT PERFORMANCE

Today's aviation industry enjoys a remarkable safety record, primarily because it has learned from the mistakes of its past. Through the study of aviation accidents, most of the risks of flying have been identified and the threats they pose to safety can be managed. However, aircraft accidents, such as controlled flight into terrain, loss of control, runway excursions and incursions, and midair collisions still occur, and the hazards of flight remain.

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MY LITTLE EAGLE: THEO LEARNS TO FLY CHILDREN'S BOOK

My Little Eagle: Theo Learns to Fly is an amazing aviation-inspired story written by Merici Huggins, a Minnesota based author from the Caribbean island of St. Lucia. The chronicles a little eagle (Theo) who could not fly because his wings were too short. Theo soon realizes there are other ways to fly and make his dream come true. The story is meant to entertain and inspire children of all ages to believe in themselves. It is filled with lessons about self-reliance, facing fears, overcoming challenges and disabilities, and achieving goals. It is also meant to spark an interest in airplanes and aviation in children. Pages: 24 pages, full-color illustrations.

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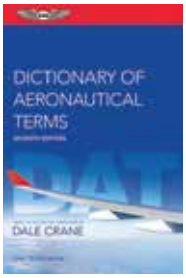

DICTIONARY OF AERONAUTICAL TERMS (DALE CRANE)

Dale Crane's ultimate reference book contains more than 11,000 accurate, aviation-specific terms and definitions, updating and gathering all the terms in Title 14 of the Code of Federal Regulations, glossaries from FAA handbooks, advisory circulars and manuals, the Aeronautical Information Manual (AIM) and Pilot/Controller Glossary, as well as definitions not found in government publications. Nearly 500 illustrations further define and aid visual recognition of the terms, and useful tables and lists are included in appendices.

The ASA Dictionary of Aeronautical Terms, now in its Sixth Edition, is a vital reference tool that belongs on every aviation bookshelf.

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EVERYTHING EXPLAINED FOR THE PROFESSIONAL PILOT BOOK

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MASTERING THE E-6B FLIGHT COMPUTER

Mastering the E-6B Flight Computer; a new book by Mike Arman, launches with this history of the humble yet elegant flight computer before delving into a thorough tutorial on its use. Although some student pilots actually fear these devices (and more than a few seasoned pilots have forgotten how to use them), the E6B is a no-fail way to make numerous critical calculations both before and during cross-country flights You can use the book to learn how to figure everything from time/speed/distance problems to fuel burn, from density altitude calculations to wind triangles and drift. Arman, an advanced ground instructor and pilot, uses many examples in each lesson to illustrate E6B concepts ..... P/N 13-04709 ..... ---

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"This is an extraordinary story, beginning with a bare-foot colonial childhood, and indeed not speaking English until he was four, yet ending up at Cambridge, ultimately dealing at the highest levels of the Russian aviation industry. Richard Goode's life has been a fascinating series of activities, both social and business, dealing with an incredible range of people from the notorious Ugandan dictator, Idi Amin, to whom he was selling banknotes (legally) to a car dealer who was embroiled in the Brinks-Mat gold robbery (illegally); dealing with Russian spies at the behest of MI5; international corporate headhunting and aerobatics at the highest levels. And all this with a huge zest for living life to the full.

Jacketed Hardback
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FLIGHT TESTING EXPERIMENTAL AMATEUR-BUILT AIRPLANES

This flight test guide presents the essentials of safe and technically sound flight testing to the amateur-builder pilot community in a practical, easy to understand way. The flight test topics deemed important to amateur-builder flight testing derive directly from NTSB recommendations and latest FAA guidance.

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THE SKEW-T LOG (P) AND ME: A PRIMER FOR PILOTS

To a large extent, the study of weather, better known as meteorology, is rooted in a few fundamental properties. It is these properties that are the key to unlocking all that the Skew-T log (p) diagram has to offer. Even though some of the concepts and dialog presented in this primer are quite challenging even for the most seasoned pilot, they are born out of these fundamental properties of air.

A thermodynamic chart such as the Skew-T log (p) diagram is clearly the best kept secret in aviation. This primer is the most comprehensive resource available for general aviation pilots that want to leverage its use as supplemental weather guidance for preflight route planning. Specifically, the Skew-T log (p) diagram allows you to "drill down" over a particular location to identify or describe adverse weather better in time and space than any other single chart or diagram assuming you know how to unlock its plentiful secrets. Written by aviation weather expert and FAA-certificated instrument flight instructor, Dr. Scott Dennstaedt, this primer is 300 pages in length and contains over 200 hundred charts, diagrams, and photographs to help you quickly understand this complex subject .....P/N 13-24410 ..... ---

ARE YOUR NUTS TIGHT - GUIDE TO IDENTIFYING PROBLEMS ON YOUR AMATEUR-BUILT AIRCRAFT

If you own an amateur-built aircraft this is the book you need. It contains hundreds of pictures illustrating problem areas that can be unique to amateur-built aircraft. The kits today are much more advanced than in the past, allowing more aircraft to be completed. However, the skills needed to maintain the aircraft tend to be self-taught. This guide will show you where to look for problem areas. It does not tell you how to fix them. That will be in a future maintenance book.

Pages: 85 .....P/N 13-23351 ..... ---

PRE-BUY: GUIDE FOR AMATEUR-BUILT AIRCRAFT

With over 41 years in aviation, Vic Syracuse is a nationally-recognized expert in pre-buy and DAR services for amateur-built aircraft, especially on the Van's RV series. He has traveled over almost the entire United States, either in his RV-10 or by commercial airlines, and often receives requests for international travel for pre-buy and DAR services. All too many times during a pre-buy inspection Vic has heard the seller comment "I wish I knew of you when I bought the airplane." So, after having inspected over a thousand amateur-built aircraft, Vic felt he now had enough data and pictures to share with the aviation community so that everyone could potentially accomplish a high-quality pre-buy inspection without his involvement. With close to twenty thousand amateur-built aircraft on the US National Aircraft Registry, the number of aircraft changing hands is rapidly increasing on a weekly basis. Those that have already purchased or have built an amateur-built aircraft will find this book extremely informative and useful when it comes to identifying any potential maintenance or construction issues. It is spiral bound, on 80 lb paper, 109 pages, with over 280 color pictures .....P/N 13-23349 ..... ---

AVIATION WEATHER SERVICES

This text thoroughly explains the many U.S. aviation weather products and services available to pilots. Weather product examples and explanations are taken primarily from the Aviation Weather Center's Aviation Digital Data Service. The AC provides hundreds of weather website addresses for weather resources and definitions. It is an unprecedented level of convenience and study access for pilots planning flights and researching weather.

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LOW POWER LAMINAR AIRCRAFT DESIGN

(Alex Strojnik) – Aerodynamics of light aircraft of 40 HP or less.
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(Alex Strojnik) – Stress analysis of aircraft structures in the air and landing, and info. on load conversions.....P/N 13-14300 ..... ---

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(Alex Strojnik) - Instructions on how to build low power aircraft.
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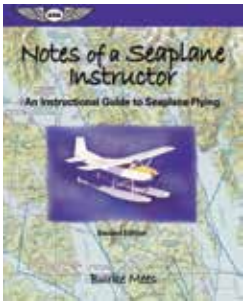
SEAPLANE, SKIPLANE, & FLOAT/SKI EQUIPPED HELICOPTER OPERATIONS HANDBOOK

This operational handbook introduces the basic skills necessary for piloting seaplanes, skiplanes, and helicopters equipped with floats or skis. It is primarily intended to assist pilots who already hold private or commercial certificates and who are learning to fly these aircraft types. It is also beneficial to rated seaplane pilots who wish to improve their proficiency, pilots preparing for flights using ski-equipped aircraft, and flight instructors engaged in the instruction of both students and transitioning pilots.
The book introduces the future seaplane or skiplane pilot to the realm of water operations and cold weather operations, and provides information on the performance of procedures required for the addition of a sea class rating in airplanes.....P/N 13-03470 ..... ---



NOTES OF A SEAPLANE INSTRUCTOR: AN INSTRUCTIONAL GUIDE TO SEAPLANE FLYING (BY BURKE MEES)

Gives pilot all the information they need to add a seaplane to their certificate. All the seaplane maneuvers are covered, starting with preflight, through taxiing, takeoff, landing, and postflight procedures; also operating in various water conditions, stability of the aircraft on the water, step-taxi and -turn, and much more. Many illustrations, inspired by the author's original seaplane notebook sketches, are included to further explain the concepts. Soft cover, 160 pages, illustrated.
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THE LITTLE PLANE THAT COULD - LET'S FLY!

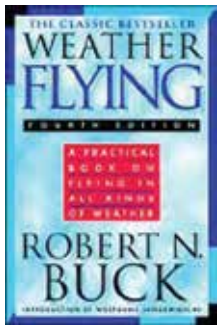
First seen earning his propeller in The Little Plane That Could, Dash returns in Let's Fly, determined to see the world and make friends wherever he goes! So he sets off, armed with a map and a flight plan, nervous about meeting new planes, but determined to give it his best shot.
As well as Dash himself, Dash's mom, Rosie, returns in this story too, and so does Larry Long-Distance – and there are new friends to meet too: Peter Carbon Cub, Swan the seaplane, and many more, including the truly unique COTW who has been modified so he can explore anywhere in the world!
Aimed at younger readers, this book – along with the first in the series – is perfect for teaching youngsters all about the differences in planes and people in other countries: and how these differences are something to accept and appreciate rather than fear or worry.
LET'S FLY is a perfect addition to any bookshelf, whether it is at home, at school, the local flight school or in the local lending library, and can be read at bedtime, first thing in the morning – or any time, really, when your child needs a spot of world travel and enlightenment! .....P/N 13-24645 ..... ---

FLYING COLORADO MOUNTAIN WEATHER

This seminal book highlights reading clouds and flying mountain weather. It's a stick and rudder text, including full color photographs printed to art-quality standards. The material explains airplane crashes in all sorts of downdrafts, from lee-side downdrafts in the mountain wave, to windward side flows across the Continental Divide. Microscale weather is a problem not identified at all in general aviation mountain flying, but this book exposes the hazards. The book also contains chapters on flying turbulence, and risk (with examples from mountaineering, as well as paragraphs from famous pilots).
P/N 13-21638 ..... ---

PILOT WEATHER: FROM SOLO TO THE AIRLINES

Welcome to the first edition of Pilot Weather: From Solo to the Airlines. It includes 394 pages, over 400 diagrams and pictures, plus a 550-entry glossary. This book consists of 33 chapters on the A to Z of aviation weather. Not only does it dwell on the theory of meteorology, but includes numerous chapters explaining the details of how to critically decipher many important aviation weather reports and forecasts.
Pilot Weather caters to all pilots...from your first solo to flying for the airlines. Whether you are looking to have a career in aviation or just to poke holes in the sky as a private pilot, this book will not only help you pass those exams, but, more importantly, teach you how to minimize your exposure to adverse weather. The book is printed in full color and many "tidbits of helpful weather goodies you won't find presented in any other aviation book or flight training programs," the authors promise.....P/N 13-22314 ..... ---



WEATHER FLYING

Weather Flying is regarded in the industry as the bible of weather flying. Robert Buck, a general aviation and commercial pilot with tens of thousands of hours of flight time, explains weather in a nontechnical way, giving pilots useful understanding of weather and practical knowledge of how to judge it and fly it. Covers weather flying psychology, en route weather changes, radar and how to use it, taking off in bad weather, and much more. Winner of the Flight Safety Foundation's Publication Award; recommended by the FAA.
P/N 13-27800 ..... ---

THE LITTLE PLANE THAT COULD - DASHING TO THE SAN JUAN ISLANDS CHILDREN'S BOOK

Dash, the star of The Little Plane Who Could and Let's Fly returns for his third adventure. Once again he is going to explore the world – but this time he's going to help out a friend first, by making a delivery for Larry Long-Distance. Once he's completed this mission, he can go anywhere in the world: where will he decide to go? This book is great for young readers who enjoy adventures, feel-good stories and especially good for those whose gazes often turn to the skies, watching birds and planes flying effortlessly overhead! Add it to your home library, the bedtime story folder or just keep it handy for rainy days: no matter where you keep it, it will soon find its way into your young readers' hearts, becoming a firm favorite with the whole family!
P/N 13-25792 ..... ---

THE LITTLE PLANE THAT COULD CHILDRENS BOOK

This illustrated children's book is for all the little boys and girls that love airplanes. You'll encounter Dash who wants to learn to fly and his fellow airplane friends who inspire and share their experiences. Bits of facts about airplanes have been woven into the book, providing little future aviators with a story that lets their love of flight come to life. If your child loves "Super Wings" they are sure to love The Little Plane That Could!
P/N 13-23418 ..... ---

BV

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

U.S. AND METRIC SYSTEM EQUIVALENTS

LENGTH EQUIVALENTS

Unit	Millimeters	Centimeters	Inches	Feet	Yards	Meters
1 Millimeter=	1	.1	.03937	.003281	.001094	.001
1 Centimeter=	10	1	.3937	.032808	.010936	.01
1 Inch=	25.4001	2.54001	1	.083333	.027778	.025400
1 Foot=	304.801	30.4801	12	1	.333333	.304801
1 Yard=	914,402	91.4402	36	3	1	.914402
1 Meter=	1000	100	39.37	3.28083	1.09361	1

Unit	Feet	Yards	Meters	Rods	Furlongs	Miles (Statute)
1 Rod=	16.5	5.5	5.02921	1	.025 (1/40)	.003125 (1/320)
1 Furlong=	660	220	201.168	40	1	.125(1/8)
1 Mile (Statute)=	5280	1760	1609.35	320	8	1

1 Nautical Mile = 6080.2 feet = 1.15155 statute miles = 1/3 league.
1 Light Year = 5.879 trillion miles = 9.46 trillion kilometers.

WEIGHT EQUIVALENTS

Unit	Grains	Grams	Ounces (Troy)	Ounces (Avoir.)	Pounds (Troy)	Pounds (Avoir.)	Kilo-grams
1 Grain=	1	.064799	.002083	.002286	.000174	.000143	.000065
1 Gram=	15.4324	1	.032151	.035274	.002679	.002205	.001
1 Ounce (Troy) =	480	31.1035	1	1.09714	.083333	.068571	.031104
1 Ounce (Avoir.) =	437.5	28.3495	.911458	1	.075955	.0625	.028350
1 Pound (Troy) =	5760	373.242	12	13.1657	1	.822857	.373242
1 Pound(Avoir.) =	7000	453.592	14.5833	16	1.21528	1	.453592
1 Kilogram =	15432.4	1000	32.1507	35.2740	2.67923	2.20462	1

Unit	Kilograms	Pounds (Troy)	Pounds (Avoir.)	Metric Tons	Net (Short)	Gross (Long Tons
1 Metric Ton =	1000	2679.23	2204.62	1	1.10231	.984206
1 Net (Short) Ton=	907.185	2430.56	2000	.907185	1	.892857
1 Gross (Long) Ton=	1016.05	2722.22	2240	1.01605	1.12	1

VOLUME AND CAPACITY EQUIVALENTS

Unit	Cubic CM	Cubic In	Liters	Qts (Liq.)	Qts (Dry)	Gals. (Liq.)	Gals. (Dry)	Cubic Feet
1 Cu. Centimeter=	1	.06102	.001	.00106	.00091	.00026	.00023	.00004
1 Cu. Inch=	16.387	1	.01639	.01732	.01488	.00433	.00372	.00058
1 Gill=	118.29	7.2188	.125	.10742	.03125	.02686	.02686	.00418
1 Pint (Liquid)=	473.18	28.875	.47318	.5	.42968	.125	.10742	.01671
1 Pint (dry)=	550.62	33.600	.55062	.58182	.5	.14546	.125	.01945
1 Liter=	1000	61.023	1	1.0567	.90808	.26417	.22702	.03531
1 Quart (Liquid)=	946.36	57.75	.94636	1	.85937	.25	.21484	.03342
1 Quart (dry)=	1101.2	67.201	1.1012	1.1637	1	.29091	.25	.03889
1 Gallon (Liquid)=	3785.4	231	3.7854	4	3.4375	1	.85937	.13368
1 Gallon (dry)=	4404.9	268.80	4.4049	4.6546	4	1.1636	1	.15556
1 Pack=	8809.8	537.61	8.8098	9.3092	8	2.3273	2	.31111
1 Cu. Foot=	28317.0	1728	28.317	29.922	25.714	7.4805	6.4285	1
1 Bushel=	35239.3	2150.4	35.239	37.237	32	9.3092	8	1.2445
1 Barrel=	119241.2	7276.5	119.24	126	108.28	31.5	27.070	4.2109
1 Cu. Yard=	764559.4	46656	764.56	807.90	694.28	201.97	173.57	27
1 Cu. Meter=	1000000	61023.4	1000	1056.7	908.08	264.17	227.02	35.314

AREA EQUIVALENTS

Unit	Square Inches	Square Feet	Square Yards	Square Meters
1 Square Foot=	144	1	.1111	.09290
1 SquareYard=	1296	9	1	.83613
1 Square Meter =	1550	10.7639	1.19599	1
1 Square Rod=	39204	272.25	30.25	25.293
1 Are=	155000	1076.39	119.599	100
1 Acre=	6272640	43560	4840	4046.86
1 Square Mile (640 Acres)=	-	27878400	3097600	2589999
1 Square Kilometer=	-	10763867	1195985	1000000

MISCELLANEOUS LIQUID MEASURE CONVERSIONS

1 Fl. Oz. = 1.805 Cu. In.	1 Quart = 946 Cu. Cm.
1 Fl. Oz. = 29.6 Cu. Cm.	1 Gallon = 8 Pints
1 Pint = 16 Fl. Oz.	1 Gallon = 4 Quarts
1 Quart = 32 Fl. Oz.	1 Firkin = 9 Gallons
1 Quart = 2 Pints	1 Hogshead = 63 Gallons

METRIC SYSTEM

LENGTH

1 Meter (m) = 10 decimeters (dm); 100 centimeters (cm); 1,000 millimeters (mm)

1 dekameter (dkm) = 10 meters (m)
1 hectometer (hm) = 100 meters (m)
1 kilometer (km) = 1,000 meters (m)

WEIGHT

1 gram (g) = 10 decigrams (dg); 100 centigrams (cg); 1,000 milligrams (mg)

1 dekagram (dkg) = 10 grams (g)
1 hectogram (hg) = 100 grams (g)
1 kilogram (kg) = 1,000 grams (g)

1 metric ton = 1,000 kilograms (kg); 1,000,000 grams (g)

VOLUME & CAPACITY

1 liter (l) = 1 cubic decimeter (dm^3); 10 decileters (dl); 100 centiliters (cl); 1,000 milliliters (ml); 1,000 cubic centimeters (cm^3 or cc)

1 dekaliter (dkl) = 10 liters (l)
1 hectoliter (hl) = 100 liters (l)

1 kiloliter (kl) = 1 cubic meter (m^3); 1 stere (s); 1,000 liters (l)

AREA

1 centare (ca) = 1 square meter (m^2); 100 square decimeters (dm^2); 10,000 square centimeters (cm^2); 1,000,000 square millimeters (mm^2)

1 are (a) = 1 square dekameter (dkm^2); 100 square meters (m^2)

1 hectare (ha) = 100 ares (a); 10,000 square meters (m^2)

1 square kilometer (km2) = 1,000,000 square meters (m^2)

Other prefixes occasionally used:
micro—one millionth • myria—10,000 times
• deca—10 times (same as deka) • mega—1,000,000 times

AN/MS O-RING EQUIVALENTS

The AN6227B, AN6230B and MS28775 O-Rings have the same composition. For use in aircraft hydraulic systems using MIL-H-5606 petroleum base hydraulic fluid.

AN6227B/MS28775 Equivalents — AN6230B/MS28775 Equivalents

AN6227B Dash No.	MS28775 Dash No.	Nominal Size Width	I.D.	O.D.	AN6230B Dash No.	MS28775 Dash No.	Nominal Size Width	I.D.	O.D.
1	6	1/16	1/8	1/4	1	223	1/8	1-5/8	1-7/8
2	7	1/16	5/32	9/32	2	224	1/8	1-3/4	2
3	8	1/16	3/16	5/16	3	225	1/8	1-7/8	2-1/8
4	9	1/16	7/32	11/32	4	226	1/8	2	2-1/4
5	10	1/16	1/4	3/8	5	227	1/8	2-1/8	2-3/8
6	11	1/16	5/16	7/16	6	228	1/8	2-1/4	2-1/2
7	12	1/16	3/8	1/2	7	229	1/8	2-3/8	2-5/8
8	110	3/32	3/8	9/16	8	230	1/8	2-1/2	2-3/4
9	111	3/32	7/16	5/8	9	231	1/8	2-5/8	2-7/8
10	112	3/32	1/2	11/16	10	232	1/8	2-3/4	3
11	113	3/32	9/16	3/4	11	233	1/8	2-7/8	3-1/8
12	114	3/32	5/8	13/16	12	234	1/8	3	3-1/4
13	115	3/32	11/16	7/8	13	235	1/8	3-1/8	3-3/8
14	116	3/32	3/4	15/16	14	236	1/8	3-1/4	3-1/2
15	210	1/8	3/4	1	15	237	1/8	3-3/8	3-5/8
16	211	1/8	13/16	1-1/16	16	238	1/8	3-1/2	3-3/4
17	212	1/8	7/8	1-1/8	17	239	1/8	3-5/8	3-7/8
18	213	1/8	15/16	1-3/16	18	240	1/8	3-3/4	4
19	214	1/8	1	1-1/4	19	241	1/8	3-7/8	4-1/8
20	215	1/8	1-1/16	1-5/16	20	242	1/8	4	4-1/4
21	216	1/8	1-1/8	1-3/8	21	243	1/8	4-1/8	4-3/8
22	217	1/8	1-3/16	1-7/16	22	244	1/8	4-1/4	4-1/2
23	218	1/8	1-1/4	1-1/2	23	245	1/8	4-3/8	4-5/8
24	219	1/8	1-5/16	1-9/16	24	246	1/8	4-1/2	4-3/4
25	220	1/8	1-3/8	1-5/8	25	247	1/8	4-5/8	4-7/8
26	221	1/8	1-7/16	1-11/16					
27	222	1/8	1-1/2	1-3/4					
28	325	3/16	1-1/2	1-7/8					
29	326	3/16	1-5/8	2					
30	327	3/16	1-3/4	2-1/8					

No MS28775 Equivalent for AN6230B-31 and Larger

CONVERSION CHARTS

FRACTIONAL INCHES CONVERTED TO DECIMAL MILLIMETERS

Fraction of Inch	Decimal Inch	Decimal MM.	Fraction of Inch	Decimal Inch	Decimal MM.	Fraction of Inch	Decimal Inch	Decimal MM.	Fraction of Inch	Decimal Inch	Decimal MM.
1/64	.015625	0.39688	17/64	.265625	6.74689	33/64	.515625	13.09690	49/64	.765625	19.44691
1/32	.03125	0.79375	9/32	.28125	7.14376	17/32	.53125	13.49378	25/32	.78125	19.84379
3/64	.046875	1.19063	19/64	.296875	7.54064	35/64	.546875	13.89065	51/64	.796875	20.24067
1/16	.0625	1.58750	5/16	.3125	7.93752	9/16	.5625	14.28753	13/16	.8125	20.63754
3/64	.078125	1.98438	21/64	.328125	8.33439	37/64	.578125	14.68440	53/64	.828125	21.03442
3/32	.09375	2.38125	11/32	.34375	8.73127	19/32	.59375	15.08128	27/32	.84375	21.43129
7/64	.109375	2.77813	23/64	.359375	9.12814	39/64	.609375	15.47816	55/64	.859375	21.82817
1/8	.125	3.17501	3/8	.375	9.52502	5/8	.625	15.87503	7/8	.875	22.22504
9/64	.140625	3.57188	25/64	.390625	9.92189	41/64	.640625	16.27191	57/64	.890625	22.62192
5/32	.15625	3.96876	13/32	.40625	10.31877	21/32	.65625	16.66878	29/32	.90625	23.01880
11/64	.171875	4.36563	27/64	.421875	10.71565	43/64	.671875	17.06566	59/64	.921875	23.41567
3/16	.1875	4.76251	7/16	.4375	11.11252	11/16	.6875	17.46253	15/16	.9375	23.81255
13/64	.203125	5.15939	29/64	.453125	11.50940	45/64	.703125	17.85941	61/64	.953125	24.20942
7/32	.21875	5.55626	15/32	.46875	11.90627	23/32	.71875	18.25629	31/32	.96875	24.60630
15/64	.234375	5.95314	31/64	.484375	12.30315	47/64	.734375	18.65316	63/64	.984375	25.00318
1/4	.25	6.35001	1/2	.5	12.70003	3/4	.75	19.05004	1	1.	25.40005

MILLIMETERS CONVERTED TO DECIMAL INCHES

	INCH EQUIVALENTS									
Millimeters	0	1	2	3	4	5	6	7	8	9
	0.00000	0.03937	0.07874	0.11811	0.15748	0.19685	0.23622	0.27559	0.31496	0.35433
10	0.39370	0.43307	0.47244	0.51181	0.55118	0.59055	0.06299	0.66929	0.70866	0.74803
20	0.78740	0.82677	0.86614	0.90551	0.94488	0.98425	1.02362	1.06299	1.10236	1.14173
30	1.18110	1.22047	1.25984	1.29921	1.33858	1.37795	1.41732	1.45669	1.49606	1.53543
40	1.57480	1.61417	1.65354	1.69291	1.73228	1.77165	1.81102	1.85039	1.88976	1.92913
50	1.96850	2.00787	2.04724	2.08661	2.12598	2.16535	2.20472	2.24409	2.28346	2.32283
60	2.36220	2.40157	2.44094	2.48031	2.51968	2.55905	2.59842	2.63779	2.67716	2.71653
70	2.75590	2.79527	2.83464	2.87401	2.91338	2.95275	2.99212	3.03149	3.07086	3.11023
80	3.14960	3.18897	3.22834	3.26771	3.30708	3.34645	3.38582	3.42519	3.46456	3.50393
90	3.54330	3.58267	3.62204	3.66141	3.70078	3.74015	3.77952	3.81889	3.85826	3.89763
100	3.93700	3.97637	4.01574	4.05511	4.09448	4.13385	4.17322	4.21259	4.25196	4.29133
110	4.33070	4.37007	4.40944	4.44881	4.48818	4.52755	4.56692	4.60629	4.64566	4.68503
120	4.72440	4.76377	4.80314	4.84251	4.88188	4.92125	4.96062	4.99999	5.03936	5.07873
130	5.11810	5.15747	5.19684	5.23621	5.27558	5.31495	5.35432	5.39369	5.43306	5.47243
140	5.51180	5.55117	5.59054	5.62991	5.66928	5.70865	5.74802	5.78739	5.82676	5.86613
150	5.90550	5.94487	5.98424	6.02361	6.06298	6.10235	6.14172	6.18109	6.22046	6.25983
160	6.29920	6.33857	6.37794	6.41731	6.45668	6.49605	6.53542	6.57479	6.61416	6.65353
170	6.69290	6.73227	6.77164	6.81101	6.85038	6.88975	6.92912	6.96849	7.00786	7.04723
180	7.08660	7.12597	7.16534	7.20471	7.24408	7.28345	7.32282	7.36219	7.40156	7.44093
190	7.48030	7.51967	7.55904	7.59841	7.63778	7.67715	7.71652	7.75589	7.79526	7.83463
200	7.87400	7.91337	7.95274	7.99211	8.03148	8.07085	8.11022	8.14959	8.18896	8.22833
210	8.26770	8.30707	8.34644	8.38581	8.42518	8.46455	8.50392	8.54329	8.58266	8.62203
220	8.66140	8.70077	8.74014	8.77951	8.81888	8.85825	8.89762	8.93699	8.97636	9.01573
230	9.05510	9.09447	9.13384	9.17321	9.21258	9.25195	9.29132	9.33069	9.37006	9.40943
240	9.44880	9.48817	9.52754	9.56691	9.60628	9.64565	9.68502	9.72439	9.76376	9.80313
250	9.84250	9.88187	9.92124	9.96061	9.99998	10.03935	10.07872	10.11809	10.15746	10.19683
260	10.23620	10.27557	10.31494	10.35431	10.39368	10.43305	10.47242	10.51179	10.55116	10.59053
270	10.62990	10.66927	10.70864	10.74801	10.78738	10.82675	10.86612	10.90549	10.94486	10.98423
280	11.02360	11.06297	11.10234	11.14171	11.18108	11.22045	11.25982	11.29919	11.33856	11.37793
290	11.41730	11.45667	11.49604	11.53541	11.57478	11.61415	11.65352	11.69289	11.73226	11.77163

Prices Subject to Change without Notice - Valid as of June 1, 2025.
Please view our website for current prices.

AVIONICS WIRE HARNESS SHOP

AIRCRAFT SPRUCE IS PROUDLY OFFERING CUSTOM AND STOCK AVIONICS WIRE HARNESSES

We have added an in-house harness assembly shop providing avionics wire harnesses for the experimental market ranging from single avionics units to custom coax cable assemblies to complete panel wiring systems. Our harnesses are all professionally assembled and neatly labeled allowing for easy installation by the customer. Although many of the harnesses are standard and stocked on the shelves for same day shipping, we also offer our customers custom-made harnesses to specific lengths for each wire you will need during installation. When you start working on your avionics panel, rely on our shop's expertise and support for all your harness needs.

LASER WIRE MARKING

We provide a complete laser wire marking service for all of your harness needs. With a marking system meeting MIL-W-5088L, AS-5088-L, and SAE ARP5607, you are ensured a high-quality result. Simply select your white shielded or unshielded cable and provide the necessary text and spacing.

Custom options are available for additional unlisted wire types, as well as for up to three different texts on the wire. Please contact Avionics Sales for a quote by calling 800-826-3160.

CUSTOM HOSE ASSEMBLIES

CUSTOM HOSE ASSEMBLIES

Use our simple online hose order form to select your hose options and easily order online!

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1-877-477-7823

www.aircraftspruce.com

EATON AEROQUIP 303

This standard hose is used in medium pressure A/C hydraulic, fuel, oil and coolant systems. An inner tube of seamless synthetic rubber is reinforced with a synthetic-impregnated single-wire braid over a single cotton braid and an outer cover of synthetic-impregnated oil-resistant cotton braid. Operating temperature -65 to 250F. Conforms to MILH-8794 (supersedes MIL-H-5511A). Used with Aeroquip 491 hose fittings.

EATON AEROQUIP 666

Aeroquip 666 medium pressure Teflon™ hose is widely used in aircraft applications handling fuel, oils, and other fluids. It is unaffected by all fuels, oils, alcohols, coolants, or solvents commonly use in aircraft. Construction of Aeroquip 666 hose is of spiral extruded Teflon™ resin for the inner tube with a reinforcement and outer cover of Type 300 Series stainless steel wire braid. The result is a lightweight hose able to withstand prolonged flexing and vibration under all service conditions. Aeroquip 666 hose is also used in hydraulic and pneumatic applications at pressures up to 1500 psi. Operating temperature is -65° to 450°F.

EATON AEROQUIP AE466

Aeroquip integral silicone firesleeves on Aroquip Teflon™ hose assemblies. This hose/sleeve combination meets the test requirements of TSO-C53A Type D and TSO-C75 Type IIIA and IIIB.

The Silicone sleeve is applied directly onto the metal braid an fittings to form a smooth, tight bond. Hose flexibility is not impaired. Non-age sensitive for extra-long service life. Eliminates the use of band clamps. Temperature range -65°F to +450°F. Available in blue or brown.

EATON AEROQUIP AE701

An inner tube of seamless, specially formulated synthetic rubber reinforced with a stainless steel partial inner braid and full-coverage stainless steel outer braid. Operating temperature -65 to 300F. Aeroquip 701 hose is widely used for aircraft fuel and oil lines where flexibility and light weight are prime considerations. Because of its lighter weight and lower operating pressure than type 303 hose, it is not recommended for hydraulic lines. Use with Aeroquip 816 hose fittings. Aeroquip 601/ AE701 is a direct replacement for old 601 hose. AE701 hose has no shelf life and is the upgraded version of 601 hose

EATON AEROQUIP FIRESLEEVE

Aeroquip Firesleeve was specially developed to meet the fire resistance requirements of FAATSO - C53a OR TSO - C75. May be used for all fuel, oil, hydraulic, fire extinguisher & propeller feathering lines. “Fire-proof” hose lines as defined by FAA must withstand a direct flame for fifteen minutes under specified flow conditions without failure. Fire-resistant lines must withstand a 5-minute exposure under these conditions. Fire-proof hose lines are obtained when the proper size Aeroquip Firesleeve is selected from the chart below and properly assembled. 900591B Clamps - used to secure firesleeve material on each end over the basic hose assembly.

AE102 firesleeve is used to meet the fire resistance requirements of FAA TSO-C53a and TSO-C75. This firesleeve can be indentified by its orange colored outer surface. It functions effectively within a continuous operating temperature range of -65 degree to +450 degree.

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